



October 8, 2019
Kleinfelder File No. RAL19R102248

Mr. John L. Pilipchuk, LG., PE
North Carolina Department of Transportation
State Geotechnical Engineer
Geotechnical Engineering Unit
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

**SUBJECT: Preliminary Site Assessment Report
Parcel 13, DSF of NC, Inc.
WBS Element No. 54035.1.1, TIP No. U-5757
NC 8 (Winston Road) from 9th Street to SR 1408 (Biesecker Rd) in
Lexington. Widen to multi lanes
Kleinfelder Project No. 20201105.001A**

Dear Mr. Pilipchuk,

Kleinfelder is pleased to provide its report detailing the activities conducted as part of the preliminary site assessment for the subject project.

Kleinfelder appreciates the opportunity to be of service to you. Should you have questions or require additional information, please do not hesitate to contact the undersigned.

Sincerely,
KLEINFELDER, INC.


Abigail R. Shurtleff
Environmental Staff Professional


Michael J Burns, PG
Environmental Program Manager

ARS/MJB:asp



**PRELIMINARY SITE ASSESSMENT REPORT
PARCEL 13 DSF OF NC, INC.
PARCEL 1101200000036
1009 OLD US HIGHWAY 52
LEXINGTON, DAVIDSON COUNTY, NORTH CAROLINA**

**NCDOT WBS ELEMENT 54035.1.1
STATE PROJECT U-5757
NC 8 (WINSTON RD) FROM 9TH STREET TO SR 1408
(BIESECKER RD) IN LEXINGTON. WIDEN TO MULTI LANES**

KLEINFELDER PROJECT NO. 20201105.001A

OCTOBER 8, 2019

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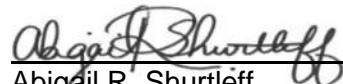
A Report Prepared for:

Mr. John L. Pilipchuk, LG., PE
North Carolina Department of Transportation
State Geotechnical Engineer
Geotechnical Engineering Unit
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

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Prepared by:



Abigail R. Shurtleff
Environmental Staff Professional

Reviewed by:



Michael J. Burns, PG
Environmental Program Manager

KLEINFELDER
3200 Gateway Centre Blvd. | Suite 100
Raleigh, North Carolina 27560
P | 919.755.5011

October 8, 2019

Kleinfelder Project No. 20201105.001A

PRELIMINARY SITE ASSESSMENT REPORT

Site Name and Location: Parcel 13
1009 Old US Highway 52
Lexington, Davidson County, North Carolina

Latitude and Longitude: 35.839510°N, -80.253365°W

County Parcel Number 1101200000036

Facility ID Number: 00-0-0000024863

Leaking UST Incident: 44108/WS-8861

State Project No.: U-5757

NCDOT Project No.: NCDOT WBS Element 54035.1.1

Description: NC 8 (Winston Rd) from 9th Street to SR 1408 (Biesecker Rd) in Lexington. Widen to multi lanes

Date of Report: October 8, 2019

Consultant: Kleinfelder, Inc.
3200 Gateway Center Boulevard | Suite 100
Morrisville, North Carolina 27560
Corporate Geology License No. C-521
Corporate Licensure for Engineering F-1312

SEAL AND SIGNATURE OF CERTIFYING LICENSED GEOLOGIST

I, Michael J Burns, a Licensed Geologist for Kleinfelder, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.

DocuSigned by:

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10/28/2019

Michael J Burns, LG
NC License No. 1645

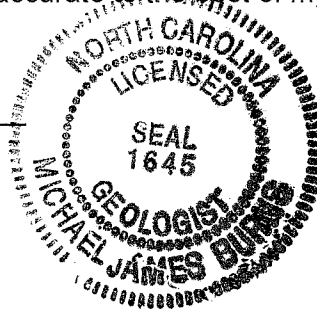


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**PRELIMINARY SITE ASSESSMENT
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PARCEL 1101200000036
1009 OLD US HIGHWAY 52
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1 INTRODUCTION

Kleinfelder, Inc. (Kleinfelder) has prepared this Preliminary Site Assessment (PSA) report to document assessment activities performed on Parcel 13 (the assessment area is hereafter referred to as the “Project Study Area”). The Project Study Area consists of the western and northern portions of a parcel known as Parcel Number 1101200000036 by the Davidson County, NC Tax Assessor’s Office. Parcel 13 is currently occupied by a Citgo retail gasoline station and SN Food Mart convenience store located southeast of the intersection of Winston Road and Spring Drive in the Town of Lexington, Davidson County, North Carolina (Figure 1).

Based on information provided in the Hazardous Materials Survey Report, dated February 28, 2019, prepared by Kleinfelder for SEPI Engineering & Construction, the parcel is currently a gasoline service station with leaking underground storage tank (LUST) groundwater incident 44108/WS-8861. There are five (5) active underground storage tanks (USTs) located on the site. As such, the purpose of the PSA was to evaluate whether unknown USTs or contaminated soil are present in the Project Study Area that may result in increased project costs and future liability if acquired by the NCDOT.

1.1 SITE DESCRIPTION

Parcel 13 has a listed owner of DSF of NC, Inc. The parcel has a street address of 1009 Old US Highway 52 (Winston Road). The parcel consists of an active retail gasoline station/convenience store, associated paved parking areas, and a maintained grass lawn. The parcel is bounded by Spring Drive to the north, beyond which is a vacant commercial property formerly occupied by Family Dollar; by Winston Road to the west, beyond which are residential properties; by a vacant grass lot to the south; and by a residential property and a maintained vacant grass lot to the east. Photographs of the Project Study Area are provided in Appendix A.

1.2 SCOPE OF WORK

Kleinfelder conducted this PSA in accordance with the NCDOT's May 24, 2019, Request for Technical and Cost Proposal (RFP) and Kleinfelder's June 18, 2019 Technical and Cost Proposal. The NCDOT granted a formal Notice to Proceed on June 27, 2019.

2 HISTORY

2.1 PARCEL USAGE

The parcel consists of a retail gasoline station/convenience store, associated paved parking areas, and a maintained grass lawn. Winston Road bounds the parcel to the west and Spring Drive bounds the parcel to the north.

The February 2018 Hazardous Materials Survey Report included information about a LUST incident for Parcel 13, which suggests the presence of contaminated soil and/or groundwater.

Kleinfelder conducted historical research to determine whether additional environmental listings were identified for Parcel 13 and to review report documents associated with groundwater incident 44108/WS-8861. The following are the results of the additional research:

- Based on a review of aerial photographs and historical documents, the property was formerly developed in the 1940s as a restaurant, then as a funeral home from approximately 1964 to 1986. Prior to the 1940s, the property was undeveloped land.
- Kleinfelder searched the registered UST database, maintained by the North Carolina Department of Environmental Quality (NCDEQ). The site was listed as Grab & Go 12 with three (3) active 6,000-gallon gasoline USTs, one (1) active 2,000-gallon kerosene UST, and one (1) active 2,000-gallon diesel UST. All of the USTs were reportedly installed in 1986.
- The current LUST database lists the facility as Grab & Go – Winston Road with groundwater incident #44108/WS-8861. The database information indicates that a release was reported for the site in early 2013 and that groundwater was impacted. A Notice of Residual Petroleum (NRP) was filed in 2016 for the property. No additional documentation was available from NCDEQ’s online public database (Laserfiche WebLink).
- No other listings for Parcel 13 were identified on any of the available NCDEQ pollution incident databases.

2.2 FACILITY ID NUMBERS

Kleinfelder reviewed the NCDEQ UST database for Parcel 13. The parcel was identified as having five (5) active USTs and the Facility ID is listed as 00-0-0000024863. Kleinfelder also reviewed a February 2018 routine compliance inspection report (UST-10B) which indicated that the facility

had failed inspection for not conducting tightness testing for 3 or more months and/or not having records available. However, the report did not find a suspected release. A copy of the report can be found in Appendix E.

2.3 GROUNDWATER INCIDENT NUMBERS

As mentioned in Section 2.1, the site is listed with LUST groundwater incident 44108/WS-8861 Kleinfelder visited the NCDEQ Winston-Salem Regional Office to review reports related to the LUST incident. Information from select reports is discussed below:

- Kleinfelder reviewed a 24-Hour Release and UST Leak Reporting Form (UST-61), dated February 19, 2013, which found soil and groundwater contamination stemming from a Phase II Environmental Site Assessment conducted in January 2013. One soil boring returned Gasoline Range Organics (GRO) at 430 milligrams per kilogram (mg/kg), above the state action limit of 50 mg/kg. Groundwater samples returned VOC's indicative of petroleum contamination, including Methyl-tert-Butyl Ether (MTBE) at 4,300 micrograms per liter ($\mu\text{g/L}$), above the NC 2L Groundwater Standard of 20 $\mu\text{g/L}$.
- A Limited Site Assessment (LSA) was conducted in February 2016 by Paragon Environmental Consultants, Inc. A composite soil sample was collected from 1 to 15 feet below ground surface (bgs) during the installation of a monitoring well north of the UST basin, which did not reveal petroleum contamination. Groundwater was also analyzed from the monitoring well installed for the LSA, which revealed petroleum compounds at concentrations which exceeded the NC 2L Groundwater Standards; however, none of the compounds exceeded the Gross Contaminant Levels (GCLs).
- A March 22, 2016 Notice of No Further Action (NFA) letter was issued by NCDEQ for the site, Grab & Go (Incident Number 44108).

Select pages from the reports described above are provided in Appendix E.

3 OBSERVATIONS

3.1 GROUNDWATER MONITORING WELLS

Based on previous reports reviewed for the site and site visits conducted as part of the PSA, there is one (1) monitoring well located on the property that is most probably associated with LUST groundwater incident 44108.

3.2 ACTIVE USTS

Based on review of the NCDEQ UST database, site visits and previous reports, there are five (5) active USTs located on Parcel 13, three (3) of which are located within the Project Study Area. There are reportedly three (3) 6,000-gallon gasoline USTs, one (1) 2,000-gallon kerosene UST, and one (1) 2,000-gallon diesel UST, all of which were reportedly installed in 1986.

3.3 OTHER FEATURES APPARENT BEYOND PROJECT STUDY AREA

The Project Study Area consisted of the western and northern portions of the parcel. The gasoline filling pumps and fuel islands are located entirely within the Project Study Area. There were no features of concern observed in the eastern portion of the parcel, in the vicinity of the convenience store on the parcel, or beyond the Project Study Area.

4 METHODS

4.1 PROPERTY OWNER CONTACTS

As part of Kleinfelder’s scope of work, the listed property owner was contacted about the work schedule for the field work and the type of work being performed. The owner did not express any concern or special conditions associated with the work being performed.

4.2 HEALTH AND SAFETY

Prior to commencing the field work, Kleinfelder personnel developed a Site-Specific Health and Safety Plan (HASP) covering activities to be performed. The site specific HASP was discussed with all Kleinfelder personnel involved with the project and at a daily onsite “tail gate” safety meetings with subcontractors and sub consultants. In addition to the HASP, Kleinfelder utilized its comprehensive Corporate Health and Safety Program, targeted to address those specific and critical tasks that involve Kleinfelder personnel and subcontractors. The Loss Prevention System (LPS™), a behavior-based program, is Kleinfelder’s company-wide safety system implemented and embraced by all levels of the company.

4.3 GEOPHYSICAL INVESTIGATION

Pyramid Environmental & Engineering, P.C (Pyramid) conducted a geophysical investigation in the Project Study Area between July 15 and 16, 2019. Pyramid utilized electromagnetic (EM) induction technology and ground penetrating radar (GPR) to locate potential geophysical anomalies and potential USTs within the Project Study Area.

EM responses were recorded over the five (5) known USTs on the parcel, partially located within the Project Study Area. There were no other EM responses that were not associated with known USTs, ASTs, utilities, vehicles, or other previously known conditions.

A copy of the Pyramid Geophysical Investigation Report, detailing the field methodology, is included in Appendix B.

4.4 SOIL ASSESSMENT

The scope of work for the soil assessment was to evaluate the presence of soil contamination along the existing right of way and/or easement to evaluate whether known impact is present in this area and maybe migrating offsite. The soil borings were planned to be advanced to maximum depths of 15 feet bgs unless groundwater was encountered. Field screening using a photo ionization detector (PID) was to be conducted at 1-foot intervals beginning at 0 foot to 1 foot. The

soil sample with the highest PID reading above background or the sample from the maximum drilled depth would be selected for on-site laboratory analyses.

Prior to the drilling activities, public utilities were marked by NC One Call and private utilities were marked by Pyramid. However, a ¾" PVC private water line for the convenience store on the parcel was struck in an area of unmarked pavement north of the fuel island, and was subsequently repaired on August 5, 2019.

Kleinfelder subcontracted Quantex, Inc. (Quantex) to perform the drilling onsite on August 5, 2019 and South Atlantic Environmental Drilling and Construction Company (SAEDACCO) on September 3, 2019. Quantex advanced four (4) soil borings (P13-B1 through P13-B4) by direct-push technology from the ground surface to boring termination (15 feet bgs) at locations specified by Kleinfelder. SAEDACCO advanced three (3) soil borings (P13-B5 through P13-B7) at locations specified by Kleinfelder. The soil boring locations were identified in the field using a GPS. The soil boring locations are shown on Figure 2. The borings were located within the public utility easement and existing right-of-way along Winston Road and Spring Drive and the western and northern property boundaries, respectively. Soil borings P13-B1, P13-B2, and P13-B5 were located south and east of the fuel island, around the portion of the UST basin partially located within the Project Study Area. Soil boring P13-B3 was located west of the fuel island along Winston Road and the western parcel boundary. Soil boring P13-B4 was located along Spring Drive and the northern parcel boundary. Soil boring P13-B7 was located north of the fuel island, and soil boring P13-B6 was located east of the fuel island. Soil samples were collected by driving Macro Core™ samplers in 5-foot intervals. Each soil core was cut open, the soil samples were classified, and the soil divided into 1-foot sections. Each 1-foot section was screened in the field using a PID. The PID readings are summarized in Table 1.

Soils were determined to be primarily a silty clay within the top seven feet, underlain primarily by silt. Groundwater was not encountered in any of the borings at the termination depth of 15 feet bgs. Copies of the boring logs are included in Appendix C.

4.5 SOIL ANALYSIS

The PID readings from soil borings advanced were noted to be low. Based on the PID data and visual observations, two (2) of the samples from each boring were selected for on-site laboratory analysis during the August 5, 2019 event, and one (1) sample from P13-B5 was selected for off-site laboratory analysis from the September 3, 2019 event.

The on-site samples were analyzed by RED Lab, LLC utilizing ultraviolet fluorescence (UVF) methodology to provide real-time analytical results of TPH, GRO, Diesel Range Organics (DRO), and benzene, toluene, ethylbenzene, and total xylenes (BTEX). The UVF method was selected because of the known use of petroleum products on Parcel 13. The UVF analysis also provided data regarding Environmental Protection Agency 16 total Polycyclic Aromatic Hydrocarbons (PAHs), and Benzo(a)pyrene (BaP).

The off-site sample (P13-B5-6) was analyzed by Prism Laboratories of Charlotte, NC for TPH GRO and DRO. Samples were collected directly from the soil core utilizing disposable nitrile gloves and a disposable plastic corer. Samples were iced upon collection. The Chain of Custody can be found in Appendix D.

5 RESULTS

5.1 GEOPHYSICAL INVESTIGATION

The EM and GPR surveys did not identify unknown geophysical anomalies within the Project Study Area.

5.2 SOIL SAMPLING DATA

The on-site UVF analysis of soil samples did not indicate the presence of petroleum impact in any of the samples analyzed. The off-site analysis also did not indicate the presence of petroleum impact in soil boring P13-B5, advanced in the vicinity of the UST basin and monitoring well observed on Parcel 13, above laboratory detection limits. As such, shallow soil impact does not appear to be present within the existing right of way or along the northern parcel boundary above NCDEQ Action Limits. A summary of on-site and off-site soil sample analytical results is presented in Table 2. The laboratory results associated with each boring are presented on Figure 3. The onsite and offsite laboratory report and graphs are included in Appendix D.

5.3 SAMPLE OBSERVATIONS

Soils were observed for any obvious evidence of contamination. No visual or olfactory evidence of contamination was noted in any of the soil samples from the borings.

5.4 QUANTITY CALCULATIONS

Kleinfelder did not identify soil impact in the current Project Study Area of Parcel 13. The 2016 LSA conducted for the groundwater incident associated with the site did not quantify soil contamination as petroleum compounds were found only in groundwater.

6 CONCLUSIONS

Based on results of the EM/GPR survey, soil assessment and field observations, Kleinfelder has reached the following conclusions:

- The GPR and EM investigation did not identify unknown features.
- The site has a listing for Grab & Go – Winston Road for a LUST groundwater incident #44108/WS-8861. Database information along with records available from NCDEQ indicate that petroleum impacted soil and groundwater was noted during a Phase II ESA conducted in January 2013. After an LSA was conducted in 2016, a Notice of Residual Petroleum (NRP) was filed in 2016 for the property which indicated that soil impacts were below the residential MSCC's and groundwater impacts were below the NC 2L Standards. An NFA letter was issued on March 22, 2016.
- No soil impact above the NCDEQ Action Limits for TPH GRO and DRO was detected in borings advanced along Winston Road and Spring Drive and the western and northern parcel boundaries, or around the fuel island and UST basin.
- Groundwater was not encountered in the soil borings at a depth of 15 feet bgs.

7 RECOMMENDATIONS

Based on results of this Preliminary Site Assessment, Kleinfelder recommends no additional sampling or special handling of soils be performed within the Project Study Area on Parcel 13 in Lexington, Davidson County, North Carolina.

8 LIMITATIONS

Kleinfelder's work will be performed in a manner consistent with that level of care and skill ordinarily exercised by other members of its profession practicing in the same locality, under similar conditions and at the date the services are provided. Kleinfelder's conclusions, opinions and recommendations will be based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions are a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present due to the limitations of data from field studies. Although risk can never be eliminated, more-detailed and extensive studies yield more information, which may help understand and manage the level of risk. Since detailed study and analysis involves greater expense, Kleinfelder's clients participate in determining levels of service that provide adequate information for their purposes at acceptable levels of risk. More extensive studies, including subsurface studies or field tests, should be performed to reduce uncertainties. Acceptance of this report will indicate that NCDOT has reviewed the document and determined that it does not need or want a greater level of service than provided.

During the course of the performance of Kleinfelder's services, hazardous materials may have been discovered. Kleinfelder assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials. Nothing contained in this report should be construed or interpreted as requiring Kleinfelder to assume the status of an owner, operator, or generator, or person who arranges for disposal, transport, storage or treatment of hazardous materials within the meaning of any governmental statute, regulation or order. NCDOT is solely responsible for directing notification of all governmental agencies, and the public at large, of the existence, release, treatment or disposal of any hazardous materials observed at the project site, either before or during performance of

Kleinfelder's services. NCDOT is responsible for directing all arrangements to lawfully store, treat, recycle, dispose, or otherwise handle hazardous materials, including cuttings and samples resulting from Kleinfelder's services.

TABLES

Table 1: Soil Sample Screening Results

Date	Sample ID	Depth (ft)	PID Reading	Notes
8/5/2019	U5757-P13-B1	1	1.0	
		2	1.6	
		3	2.8	
		4	1.8	
		5	1.4	
		6	3.3	
		7	4.7	UVF Analysis
		8	3.6	
		9	2.0	
		10	4.5	
		11	NR	
		12	NR	
		13	15.2	
		14	9.4	UVF Analysis
		15	5.2	
8/5/2019	U5757-P13-B2	1	1.1	
		2	0.9	
		3	1.4	
		4	1.8	UVF Analysis
		5	1.6	
		6	1.4	
		7	1.5	
		8	1.1	
		9	1.2	
		10	0.6	
		11	2.4	
		12	2.5	UVF Analysis
		13	2.5	
		14	2.4	
		15	1.7	
8/5/2019	U5757-P13-B3	1	1.9	
		2	2.0	
		3	2.3	UVF Analysis
		4	2.4	
		5	2.5	
		6	2.5	
		7	2.5	
		8	3.1	UVF Analysis
		9	0.0	
		10	0.4	
		11	0.3	
		12	0.6	
		13	0.7	
		14	0.5	
		15	0.2	

8/5/2019	U5757-P13-B4	1	1.3	
		2	1.4	
		3	1.6	
		4	1.6	
		5	1.8	
		6	2.1	UVF Analysis
		7	2.0	
		8	2.3	
		9	1.7	
		10	2.2	UVF Analysis
		11	NR	
		12	1.9	
		13	2.1	
		14	1.4	
		15	1.0	
9/3/2019	U5757-P13-B5	1	0.8	
		2	0.4	
		3	1.3	
		4	1.8	
		5	2.1	
		6	3.4	Offsite Analysis
		7	2.4	
		8	2.2	
		9	1.9	
		10	0.9	
		11	0.8	
		12	0.8	
		13	0.5	
		14	1.1	
		15	0.8	
9/3/2019	U5757-P13-B6	1	0.7	
		2	2.0	
		3	2.1	
		4	2.4	
		5	2.2	
		6	2.4	
		7	1.1	
		8	2.0	
		9	1.5	
		10	1.1	
		11	0.3	
		12	0.6	
		13	1.1	
		14	1.7	
		15	0.6	

9/3/2019	U5757-P13-B7	1	0.0	
		2	0.6	
		3	1.6	
		4	1.6	
		5	1.1	
		6	0.8	
		7	0.8	
		8	2.7	
		9	1.1	
		10	0.3	
		11	0.2	
		12	0.2	
		13	0.8	
		14	0.2	
		15	0.4	

Notes:

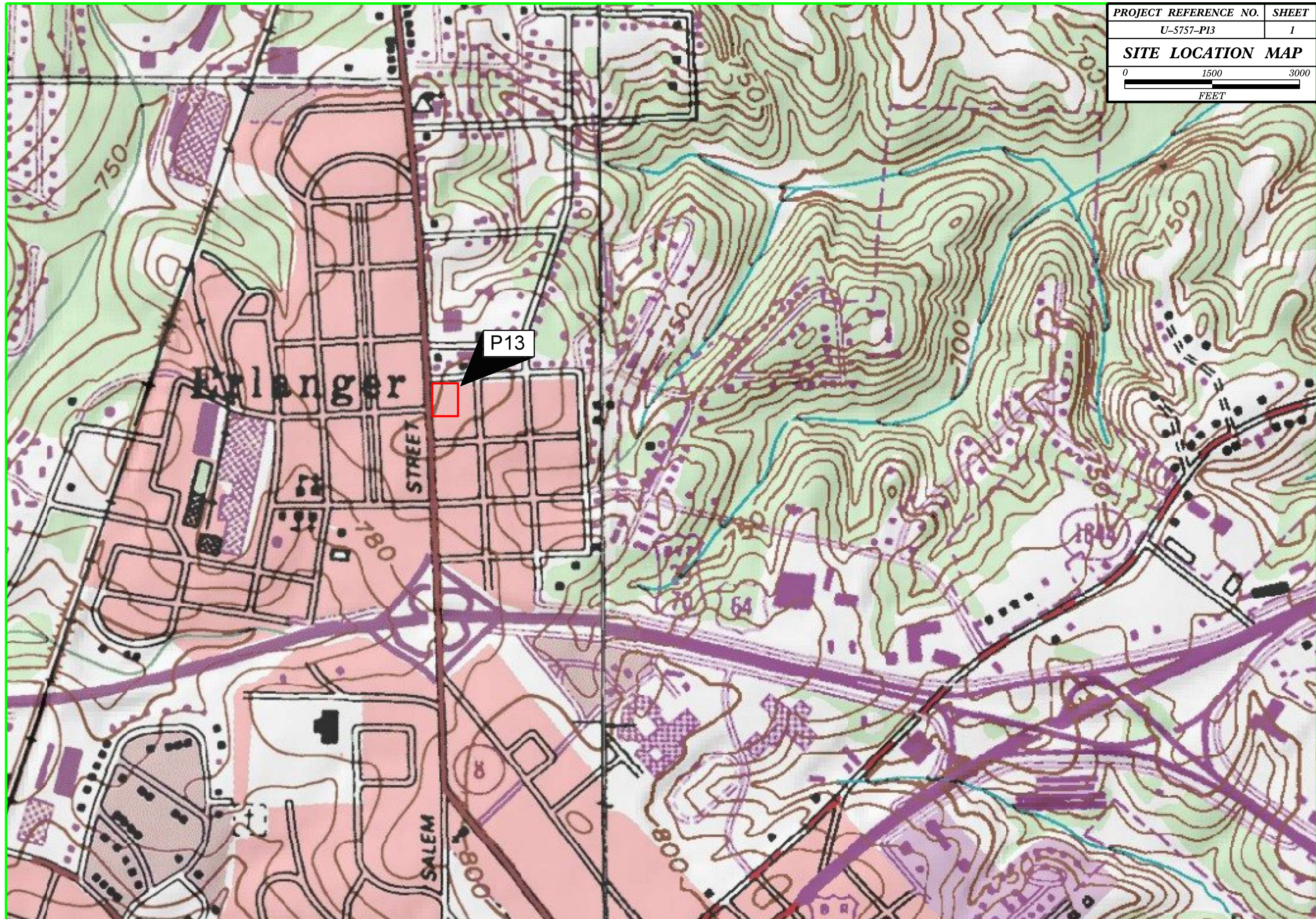
- 1) PID = Photoionization Detector
- 2) PID readings in parts per million (ppm)
- 3) NR = no recovery

TABLE 2: Soil Sample Analytical Summary

Parameter	Analytical Results									Comparison Criteria		
	Soil Sample Results									State Action Limit	Protection of Groundwater	Residential Health
Sample ID	P13-B1-7	P13-B1-14	P13-B2-4	P13-B2-12	P13-B3-3	P13-B3-8	P13-B4-6	P13-B4-10	P13-B5-6			
PID Reading (ppm)	4.7	9.4	1.8	2.5	2.3	3.1	2.1	2.2	3.4			
Collection Depth (ft bgs)	7	14	4	12	3	8	6	10	6			
Collection Date	8/5/19	8/5/19	8/5/19	8/5/19	8/5/19	8/5/19	8/5/19	8/5/19	9/3/19			
UVF Method												
Diesel Range Organics	1.7	10.5	<0.35	0.91	<0.33	1.4	1.3	10.9	--	100	--	--
Gasoline Range Organics	4.1	1.0	<0.35	<0.33	3.6	<0.42	<0.29	<0.27	--	50	--	--
EPA Method 8015c												
Diesel Range Organics	--	--	--	--	--	--	--	--	<2.9	100	--	--
Gasoline Range Organics	--	--	--	--	--	--	--	--	<1.7	50	--	--
Notes: Results displayed in milligram per kilogram (mg/kg) ft bgs = Feet below ground surface Bold = Above Laboratory Detection Limit UVF = Ultraviolet Fluorescence												

FIGURES

PROJECT REFERENCE NO.	SHEET
U-5757-P13	1
SITE LOCATION MAP	
0 1500 3000	
FEET	



LEGEND

P13B1 SOIL SAMPLE LOCATIONS



NC GRID
NAD 83 NA 2011

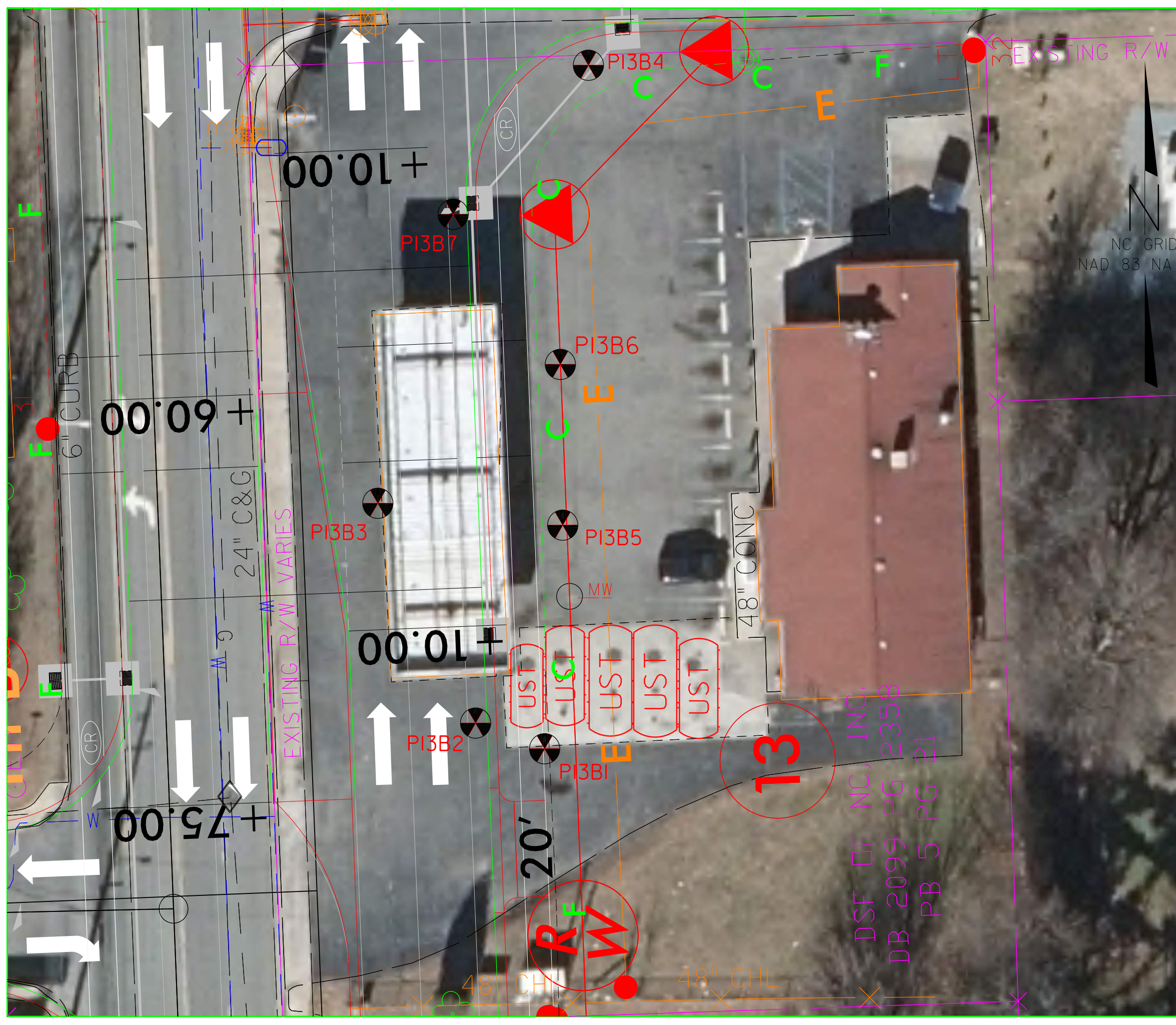
LEGEND

P13B1
 SOIL SAMPLE LOCATIONS

SOIL SAMPLE RESULTS

	DRO	GRO
P13-B1-7	1.7	4.1
P13-B1-14	10.5	1.0
P13-B2-4	<0.35	<0.35
P13-B2-12	0.91	<0.33
P13-B3-3	<0.33	3.6
P13-B3-8	1.4	<0.42
P13-B4-6	1.3	<0.29
P13-B4-10	10.9	<0.27
P13-B5-6	<2.9	<1.7
P13-B6	NA	NA
P13-B7	NA	NA

NOTES:
 1) All results reported in mg/kg
 2) DRO = Diesel Range Organics
 3) GRO = Gasoline Range Organics
 4) Bold concentrations exceeded the NCDEQ TPH Action Level
 5) NA = not analyzed



DSF OF NC, INC.
DB 2099 PG 2358
PB 5 PG 21

13

R/W

APPENDIX A
SITE PHOTOGRAPHS



View facing northwest from the central portion of Parcel 13 featuring the one monitoring well observed at the time of site exploration (foreground).



Original in Color

View facing westerly toward NC Highway 8 (Winston Road) from the southern portion of Parcel 13.



PROJECT NO:	20201105.001A
DRAWN:	September 2019
DRAWN BY:	ARS
CHECKED BY:	MB
FILE NAME:	Photo Pages

SITE PHOTOGRAPHS

Preliminary Site Assessment Report
U-5757-P13
Lexington, Davidson County, North Carolina

FIGURE

A-1




View facing northeasterly toward the convenience store located on the eastern portion of Parcel 13, featuring the UST vent pipes (center-right).



View facing northerly of Parcel 13.


Original in Color

	PROJECT NO:20201105.001A	SITE PHOTOGRAPHS	FIGURE A-2
	DRAWN: September 2019		
	DRAWN BY: ARS	Preliminary Site Assessment Report U-5757-P13 Lexington, Davidson County, North Carolina	
	CHECKED BY: MB		
FILE NAME: Photo Pages			



View facing north-northwesterly of the fuel canopy on Parcel 13.

Original in Color

	PROJECT NO:20201105.001A	SITE PHOTOGRAPHS	FIGURE A-3
	DRAWN: September 2019		
	DRAWN BY: ARS	Preliminary Site Assessment Report U-5757-P13 Lexington, Davidson County, North Carolina	
	CHECKED BY: MB		
	FILE NAME: Photo Pages		

APPENDIX B
GEOPHYSICAL SURVEY REPORT



PYRAMID GEOPHYSICAL SERVICES
(PROJECT 2019-211)

GEOPHYSICAL SURVEY

METALLIC UST INVESTIGATION: PARCEL 13 NCDOT PROJECT U-5757 (54035.1.1)

1009 WINSTON ROAD, LEXINGTON, NC

August 15, 2019

Report prepared for: Michael Burns, P.G.
Kleinfelder, Inc.
3500 Gateway Center Boulevard, Suite 200
Morrisville, NC 27560

Prepared by: _____

Eric C. Cross, P.G.
NC License #2181

Reviewed by: _____

Douglas A. Canavello, P.G.
NC License #1066

503 INDUSTRIAL AVENUE, GREENSBORO, NC 27406

P: 336.335.3174 F: 336.691.0648

C257: GEOLOGY

C1251: ENGINEERING

GEOPHYSICAL INVESTIGATION REPORT
Parcel 13 - 1009 Winston Road
Lexington, Davidson County, North Carolina

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- Figure 2 – Parcel 13 - EM61 Results Contour Map
- Figure 3 – Parcel 13 - GPR Transect Locations and Select Images
- Figure 4 – Parcel 13 - Locations and Sizes of Five Known USTs
- Figure 5 – Overlay of Metal Detection Results and Five Known USTs onto the NCDOT Engineering Plans

Appendices

- Appendix A – GPR Transect Images

LIST OF ACRONYMS

CADD	Computer Assisted Drafting and Design
DF	Dual Frequency
EM.....	Electromagnetic
GPR.....	Ground Penetrating Radar
GPS	Global Positioning System
NCDOT.....	North Carolina Department of Transportation
ROW	Right-of-Way
UST	Underground Storage Tank

EXECUTIVE SUMMARY

Project Description: Pyramid Environmental conducted a geophysical investigation for Kleinfelder, Inc. at Parcel 13 located at 1009 Winston Road in Lexington, NC. The survey was part of an NCDOT Right-of-Way (ROW) investigation (NCDOT Project U-5757). The survey was designed to extend from the existing edge of pavement into the proposed ROW and/or easements, whichever distance was greater. Conducted from July 15-16, 2019, the geophysical investigation was performed to determine if unknown, metallic underground storage tanks (USTs) were present beneath the survey area.

Geophysical Results: The geophysical investigation consisted of electromagnetic (EM) induction-metal detection and ground penetrating radar (GPR) surveys. A total of eleven EM anomalies were identified. The majority of the EM anomalies were directly attributed to visible cultural features at the ground surface. Several EM anomalies were associated with a suspected utility and interference from vehicles and the pump island; these anomalies were investigated further with GPR and showed no indications of unknown metallic USTs. Five known USTs were present at the property; these known tanks were also investigated by GPR.

The sizes and orientations of the five known USTs at the site were verified using GPR and are, from west to east, as follows: the westernmost UST (UST #1) was approximately 17.5 feet long by 7 feet wide, UST #2 was approximately 19.5 feet long by 8.5 feet wide, UST #3 was approximately 23 feet long by 10.5 feet wide, UST #4 was approximately 23 feet long by 9 feet wide, and the easternmost UST (UST #5) was approximately 19 feet long by 9 feet wide. Collectively, the geophysical data recorded evidence of five known USTs within the survey area at Parcel 13. No evidence of unknown USTs was recorded.

INTRODUCTION

Pyramid Environmental conducted a geophysical investigation for Kleinfelder, Inc. at Parcel 13 located at 1009 Winston Road in Lexington, NC. The survey was part of an NCDOT Right-of-Way (ROW) investigation (NCDOT Project U-5757). The survey was designed to extend from the existing edge of pavement into the proposed ROW and/or easements, whichever distance was greater. Conducted from July 15-16, 2019, the geophysical investigation was performed to determine if unknown, metallic underground storage tanks (USTs) were present beneath the survey area.

The site included an active gas station surrounded by asphalt, concrete, and grass surfaces. Five known USTs were observed to be within the geophysical survey area. An aerial photograph showing the survey area boundaries and ground-level photographs are shown in **Figure 1**.

FIELD METHODOLOGY

The geophysical investigation consisted of electromagnetic (EM) induction-metal detection and ground penetrating radar (GPR) surveys. Pyramid collected the EM data using a Geonics EM61-MK2 (EM61) metal detector integrated with a Geode External GPS/GLONASS receiver. The integrated GPS system allows the location of the instrument to be recorded in real-time during data collection, resulting in an EM data set that is geo-referenced and can be overlain on aerial photographs and CADD drawings. A boundary grid was established around the perimeter of the site with marks every 10 feet to maintain orientation of the instrument throughout the survey and assure complete coverage of the area.

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. The EM61 data were digitally collected at approximately 0.8-foot intervals along north-south trending or east-west trending,

generally parallel survey lines, spaced five feet apart. The data were downloaded to a computer and reviewed in the field and office using the Geonics NAV61 and Surfer for Windows Version 15.0 software programs.

GPR data were acquired across select EM anomalies on July 16, 2019, using a Geophysical Survey Systems, Inc. (GSSI) UtilityScan DF unit equipped with a dual frequency 300/800 MHz antenna. Data were collected both in reconnaissance fashion as well as along formal transect lines across EM features. 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 6 feet, based on dielectric constants calculated by the DF unit in the field during the reconnaissance scans. GPR transects across specific anomalies were saved to the hard drive of the DF unit for post-processing and figure generation.

Pyramid’s classifications of USTs for the purposes of this report are based directly on the geophysical UST ratings provided by the NCDOT. These ratings are as follows:

Geophysical Surveys for Underground Storage Tanks on NCDOT Projects			
High Confidence	Intermediate Confidence	Low Confidence	No Confidence
Known UST Active tank - spatial location, orientation, and approximate depth determined by geophysics.	Probable UST Sufficient geophysical data from both magnetic and radar surveys that is characteristic of a tank. Interpretation may be supported by physical evidence such as fill/vent pipe, metal cover plate, asphalt/concrete patch, etc.	Possible UST Sufficient geophysical data from either magnetic or radar surveys that is characteristic of a tank. Additional data is not sufficient enough to confirm or deny the presence of a UST.	Anomaly noted but not characteristic of a UST. Should be noted in the text and may be called out in the figures at the geophysicist’s discretion.

DISCUSSION OF RESULTS

Discussion of EM Results

A contour plot of the EM61 results obtained across the survey area at the property is presented in **Figure 2**. Each EM anomaly is numbered for reference in the figure. The

following table presents the list of EM anomalies and the cause of the metallic response, if known:

LIST OF METALLIC ANOMALIES IDENTIFIED BY EM SURVEY

Metallic Anomaly #	Cause of Anomaly	Investigated with GPR
1	Fence	
2	Sign	
3	Utility	✓
4	Pump Island/Vehicles	✓
5	Sign/Drop Inlet	
6	Drop Inlet	
7	Utility	
8	Dumpster	
9	Vehicles	✓
10	Five Known USTs	✓
11	Donation Box/Fence	

The majority of the EM anomalies were directly attributed to visible cultural features at the ground surface including fences, signs, a pump island, vehicles, drop inlets, utilities, a dumpster, and a donation box. EM Anomaly 3 was suspected to be the result of a buried utility and was investigated further with GPR. GPR scans were also performed around the areas of interference caused by the pump island and vehicles (Anomalies 4 and 9) to verify that no buried structures were obscured by the interference.

One large high-amplitude EM anomaly (Anomaly 10), was associated with the five known USTs within the survey area. GPR was performed across the known USTs to verify their sizes and orientations.

Discussion of GPR Results

Figure 3 presents the locations of the formal GPR transects performed at the property as well as select transect images. All of the transect images are included in **Appendix A**. A total of fourteen formal GPR transects were performed at the site.

GPR Transect 1 was performed across the widths of the known USTs at the location of EM Anomaly 10. This transect recorded five large, hyperbolic reflectors consistent with the widths of five USTs. The sizes and orientations of the USTs were confirmed with GPR and are, from west to east, as follows: The westernmost UST (UST #1) was approximately 17.5 feet long by 7 feet wide, UST #2 was approximately 19.5 feet long by 8.5 feet wide, UST #3 was approximately 23 feet long by 10.5 feet wide, UST #4 was approximately 23 feet long by 9 feet wide, and the easternmost UST (UST #5) was approximately 19 feet long by 9 feet wide. **Figure 4** provides the locations and sizes of the five known USTs overlain on an aerial, along with ground-level photographs.

GPR Transects 2-5, 6-11, and 14 were performed across areas of interference caused by the pump island and vehicles (EM Anomalies 4 and 9). No evidence of buried structures such as USTs was observed.

GPR Transects 12 and 13 were performed across an area associated with a suspected utility (EM Anomaly 3). These transects recorded evidence of discrete hyperbolic reflectors that were characteristic of a buried utility. No evidence of any buried structures such as USTs was observed.

Collectively, the geophysical data recorded evidence of five known USTs within the survey area at Parcel 13. No evidence of unknown USTs was recorded. **Figure 5** provides an overlay of the metal detection results and the locations of the five known USTs on the NCDOT MicroStation engineering plans for reference.

SUMMARY & CONCLUSIONS

Pyramid's evaluation of the EM61 and GPR data collected at Parcel 13 in Lexington, North Carolina, provides the following summary and conclusions:

- The EM61 and GPR surveys provided reliable results for the detection of metallic USTs within the accessible portions of the geophysical survey area.
- The majority of the EM anomalies were directly attributed to visible cultural

features at the ground surface.

- Several EM anomalies were associated with a suspected utility and interference from vehicles and the pump island; these anomalies were investigated further with GPR and showed no indications of unknown metallic USTs.
- Five known USTs were present at the property; these known tanks were also investigated by GPR.
- The sizes and orientations of five known USTs at the site were verified using GPR and are, from west to east, as follows: the westernmost UST (UST #1) was approximately 17.5 feet long by 7 feet wide, UST #2 was approximately 19.5 feet long by 8.5 feet wide, UST #3 was approximately 23 feet long by 10.5 feet wide, UST #4 was approximately 23 feet long by 9 feet wide, and the easternmost UST (UST #5) was approximately 19 feet long by 9 feet wide.
- Collectively, the geophysical data recorded evidence of five known USTs within the survey area at Parcel 13. No evidence of unknown USTs was recorded.

LIMITATIONS

Geophysical surveys have been performed and this report was prepared for Kleinfelder 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 the definitive presence or absence of metallic USTs, but the evidence collected is sufficient to result in the conclusions made in this report. Additionally, it should be understood that areas containing extensive vegetation, reinforced concrete, or other restrictions to the accessibility of the geophysical instruments could not be fully investigated.

APPROXIMATE BOUNDARIES OF GEOPHYSICAL SURVEY AREA



View of Survey Area
(Facing Approximately North)

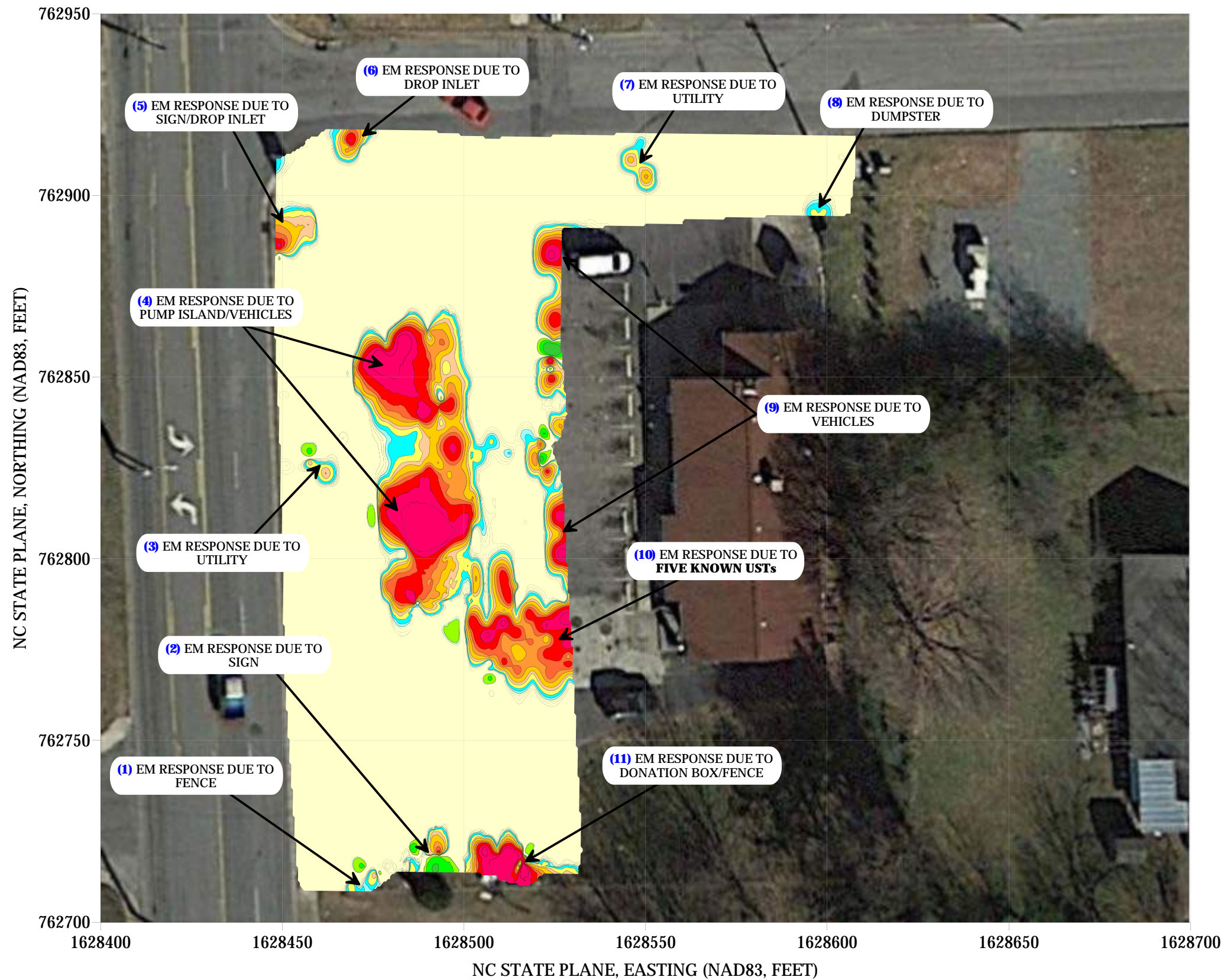


View of Survey Area
(Facing Approximately East)



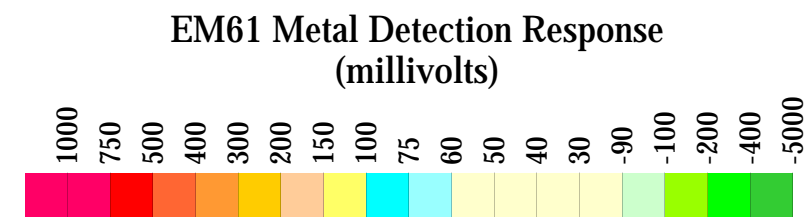
 <p>503 INDUSTRIAL AVENUE GREENSBORO, NC 27406 (336) 335-3174 (p) (336) 691-0648 (f) License # C1251 Eng. / License # C257 Geology</p>	<p>PROJECT</p> <p>PARCEL 13 LEXINGTON, NORTH CAROLINA NCDOT PROJECT U-5757</p>	<p>TITLE</p> <p>PARCEL 13 - GEOPHYSICAL SURVEY BOUNDARIES AND SITE PHOTOGRAPHS</p>	<p>DATE</p> <p>7/19/2019</p>	<p>CLIENT</p> <p>KLEINFELDER</p>
			<p>PYRAMID PROJECT #:</p> <p>2019-211</p>	<p>FIGURE 1</p>

EM61 METAL DETECTION RESULTS



**EVIDENCE OF FIVE KNOWN USTs
WAS OBSERVED.
NO EVIDENCE OF UNKNOWN
METALLIC USTs WAS OBSERVED.**

The contour plot shows the differential results of the EM61 instrument in millivolts (mV). The differential results focus on larger metallic objects such as USTs and drums. The EM data were collected on July 15, 2019, using a Geonics EM61-MK2 instrument. Verification GPR data were collected using a GSSI UtilityScan DF instrument with a dual frequency 300/800 MHz antenna on July 16, 2019.



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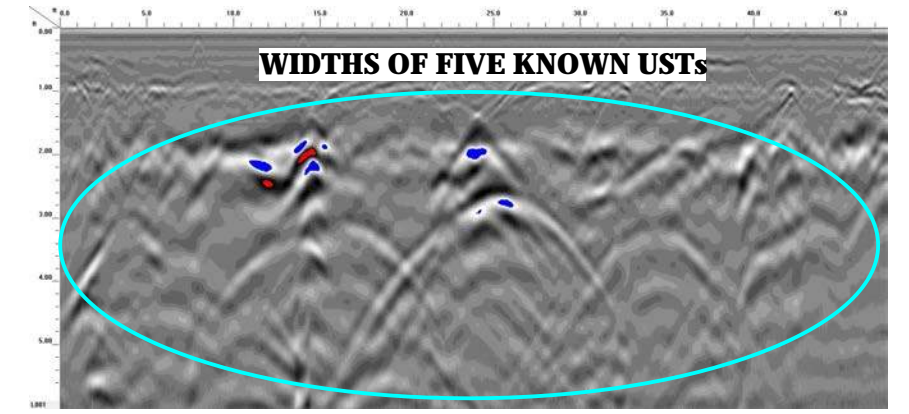
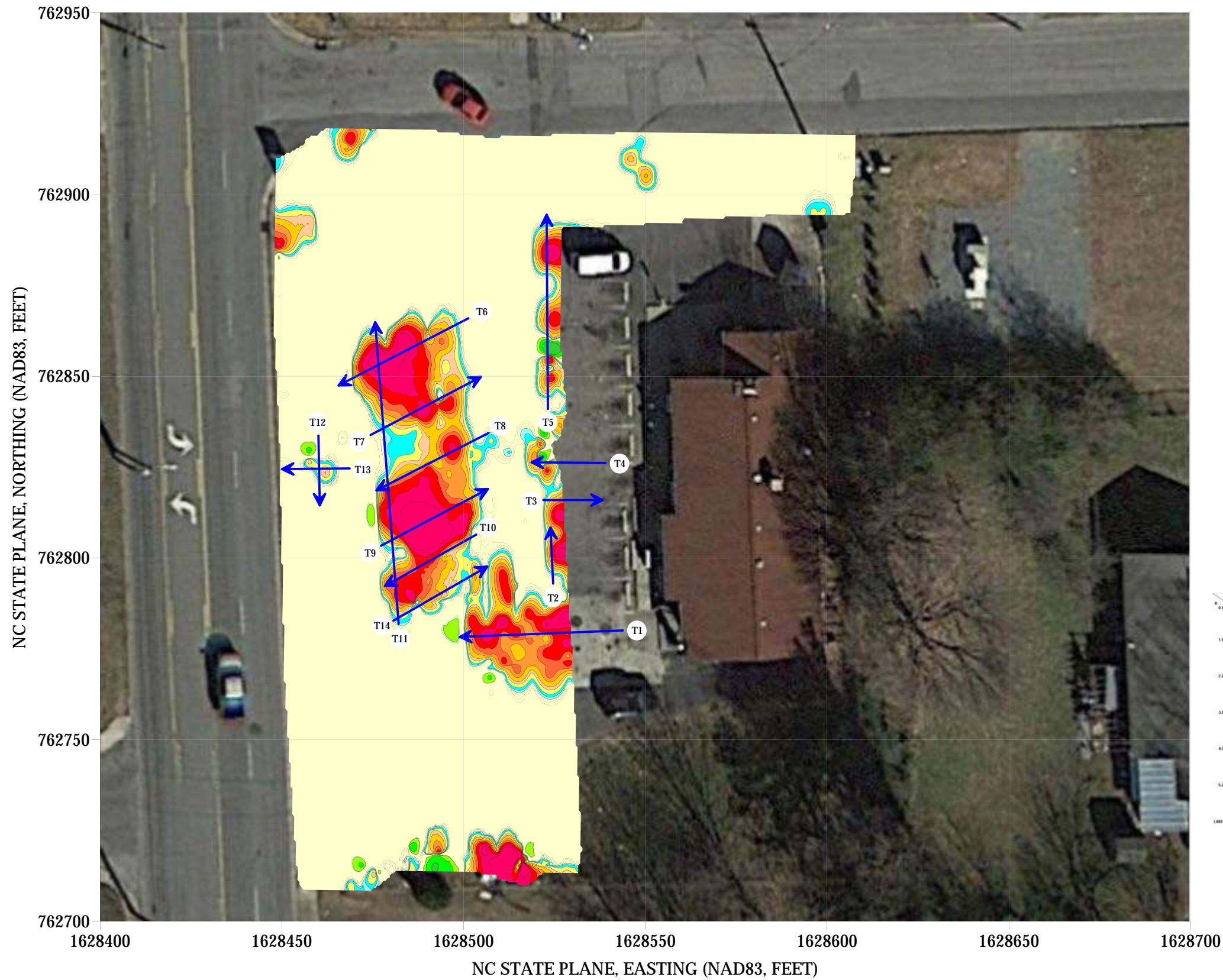
PROJECT
PARCEL 13
LEXINGTON, NORTH CAROLINA
NCDOT PROJECT U-5757

TITLE
PARCEL 13 - EM61 METAL DETECTION
CONTOUR MAP

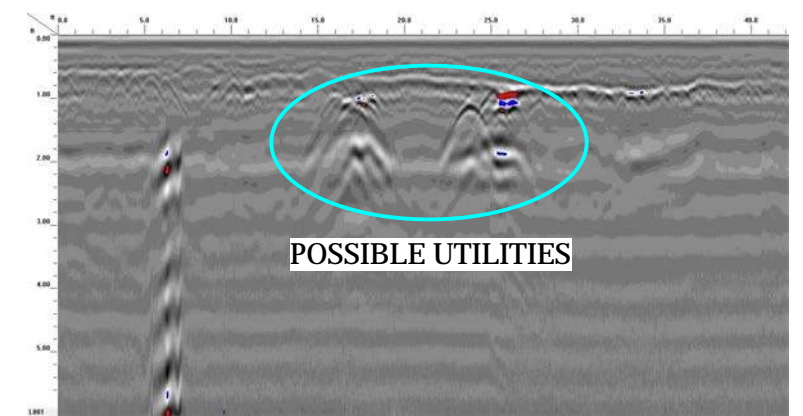
DATE 7/19/2019
PYRAMID PROJECT #: 2019-211

CLIENT KLEINFELDER
FIGURE 2

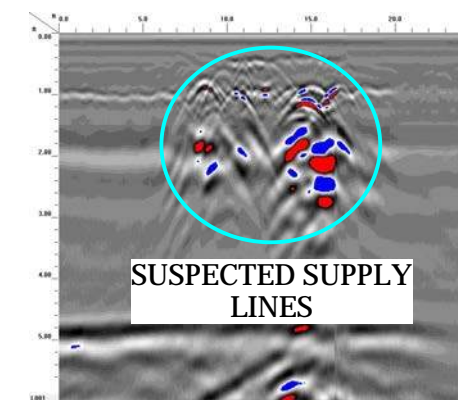
LOCATIONS OF GPR TRANSECTS



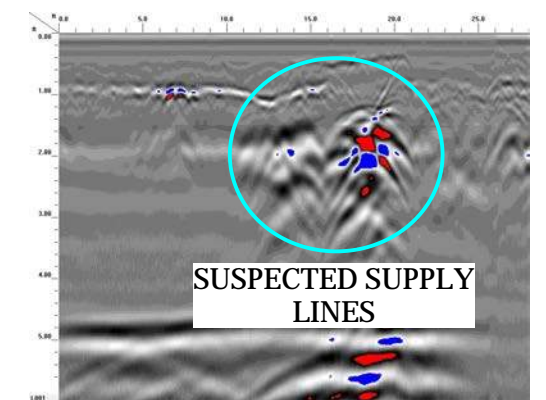
GPR TRANSECT 1 (T1)



GPR TRANSECT 5 (T5)



GPR TRANSECT 7 (T7)



GPR TRANSECT 9 (T9)



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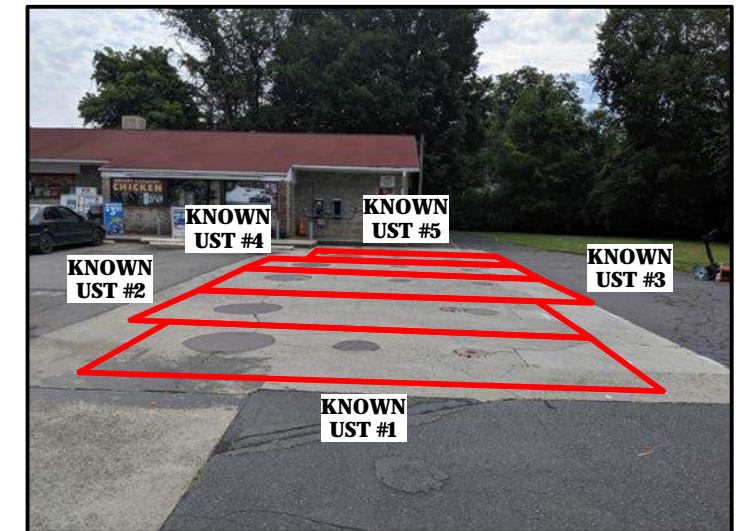
PROJECT
PARCEL 13
LEXINGTON, NORTH CAROLINA
NCDOT PROJECT U-5757

TITLE
**PARCEL 13 - GPR TRANSECT LOCATIONS
AND SELECT IMAGES**

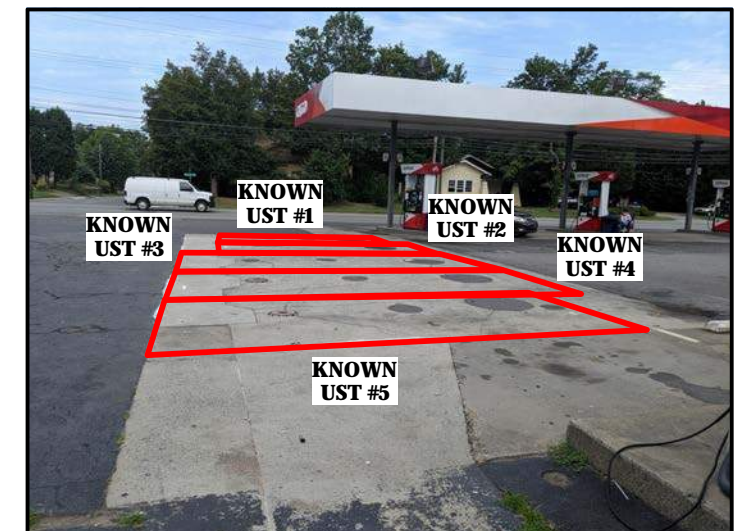
DATE
7/19/2019
PYRAMID PROJECT #:
2019-211

CLIENT
KLEINFELDER
FIGURE 3

LOCATIONS OF FIVE KNOWN USTs



View of Five Known USTs Facing Approximately East



View of Five Known USTs Facing Approximately West



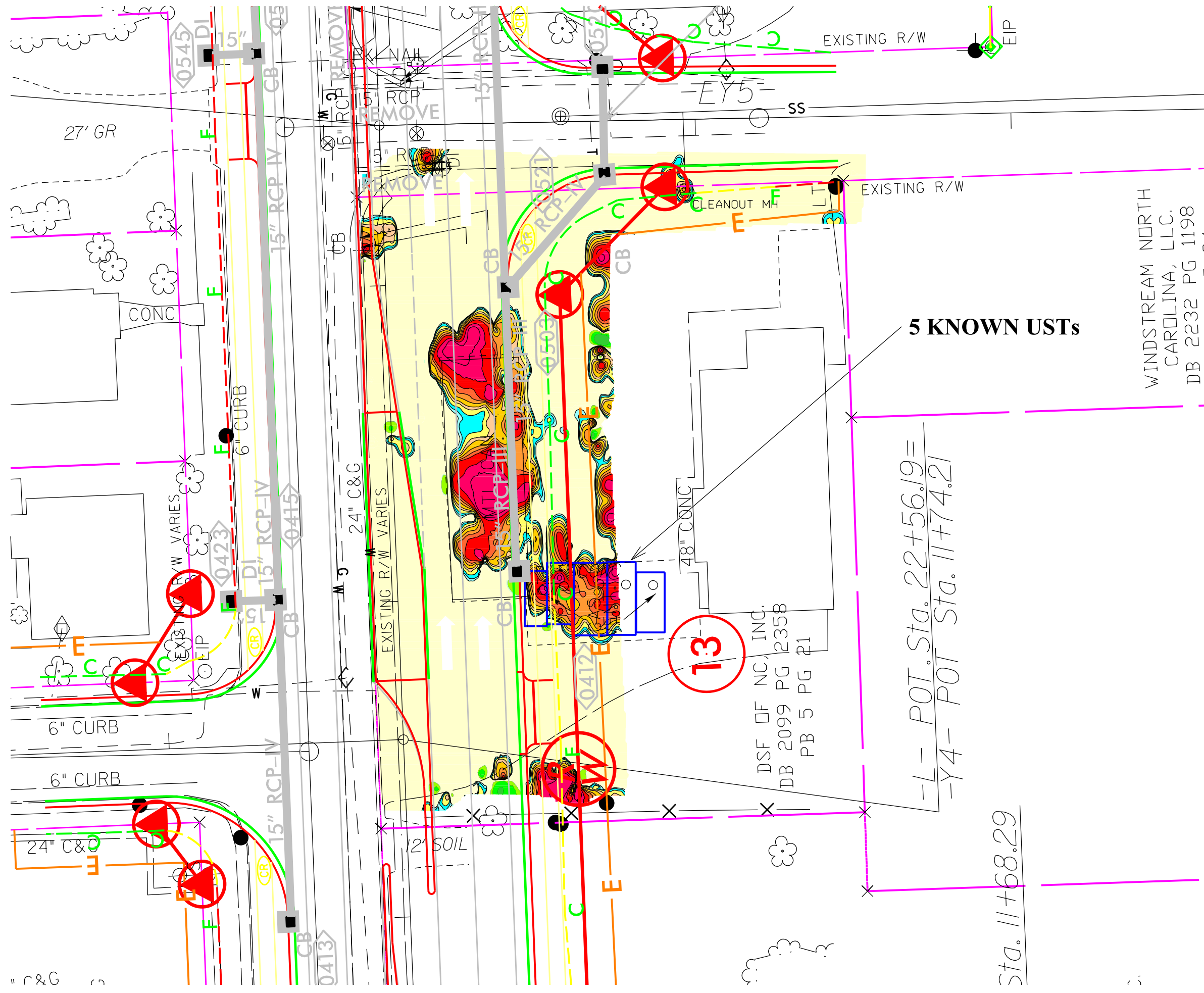
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License # C1251 Eng. / License # C257 Geology

PROJECT
PARCEL 13
LEXINGTON, NORTH CAROLINA
NCDOT PROJECT U-5757

TITLE
**PARCEL 13 - LOCATIONS AND SIZES OF
FIVE KNOWN USTs**

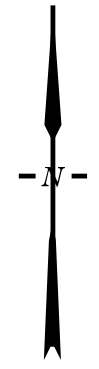
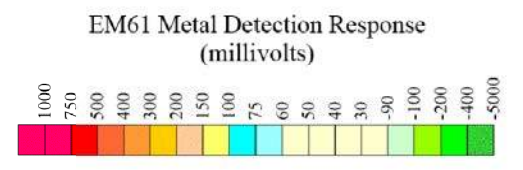
DATE
7/19/2019
PYRAMID
PROJECT #:
2019-211

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FIGURE 4



LEGEND

- EXISTING ROW
- EXISTING PROPERTY BOUNDARY
- PROPOSED ROW LINE
- TEMPORARY CONSTRUCTION EASEMENT
- PUE
- PROPOSED PERMANENT UTILITY
- PROPOSED SS CUT LINE
- PROPOSED SS FILL LINE
- KNOWN UST



TITLE	OVERLAY OF METAL DETECTION RESULTS AND KNOWN USTs ON NCDOT ENGINEERING PLANS	
PROJECT	PARCEL 13 LEXINGTON, NORTH CAROLINA NCDOT PROJECT U-5757	
	503 INDUSTRIAL AVENUE GREENSBORO, NC 27406 336.335.3174 (p) 336.691.0648 (f) License # C1251 Eng. / #C257 Geology	
DATE: 08-13-2019	REVISION NO. 0	
PYRAMID PROJECT NO. 2019-211	FIGURE NO. 5	

5 KNOWN USTs

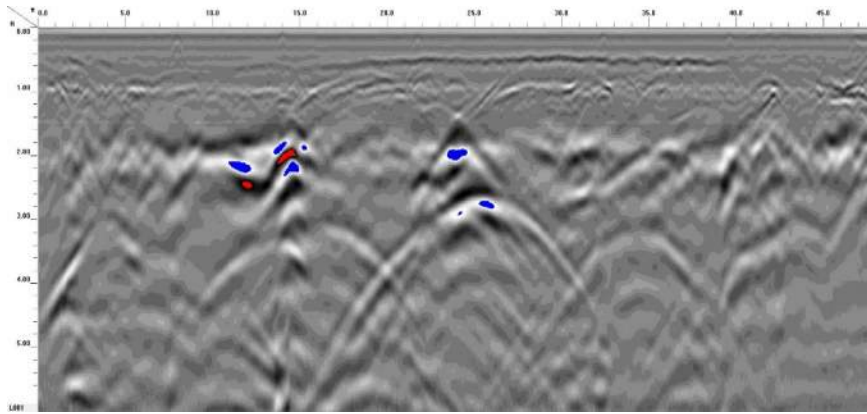
13

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PB 5 PG 21

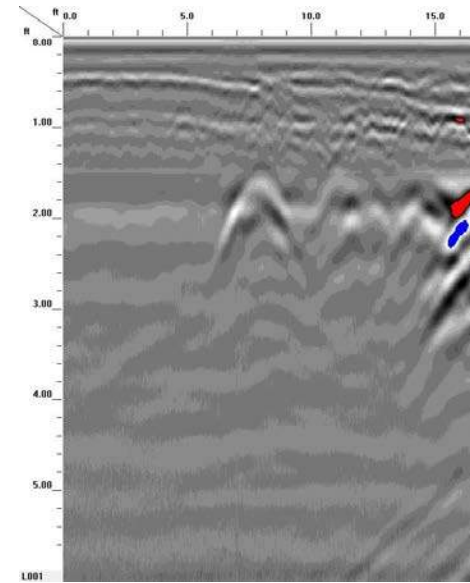
-L- POT Sta. 22+56.19 =
-Y4- POT Sta. 11+74.21

Sta. 11+68.29

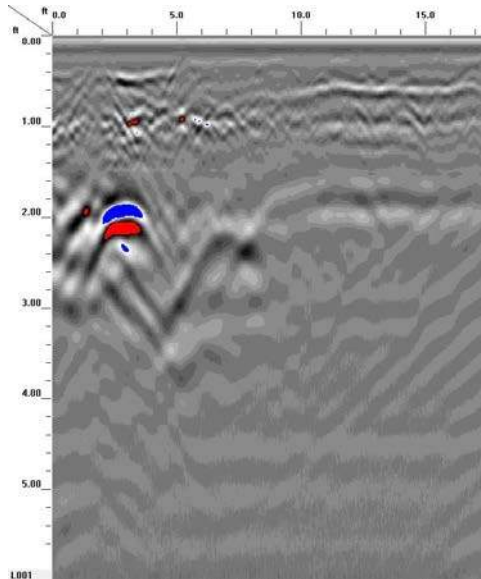
Appendix A – GPR Transect Images



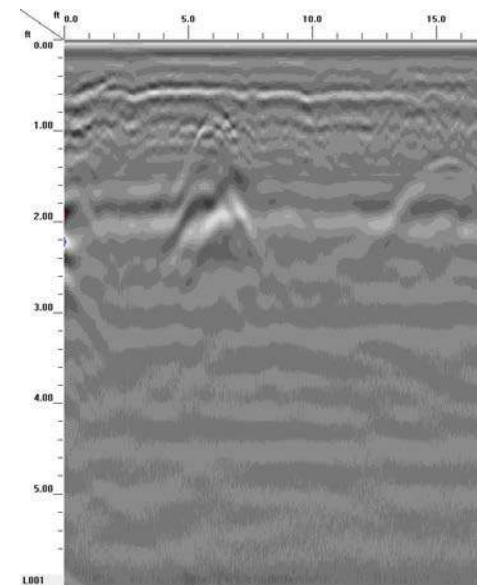
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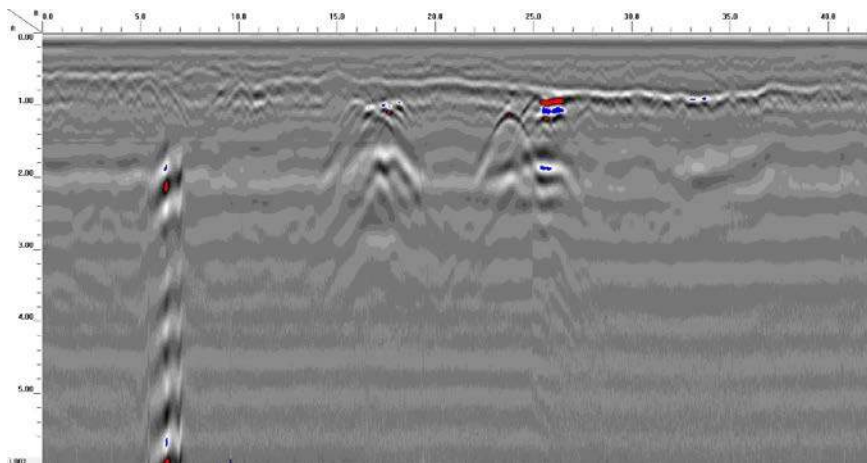
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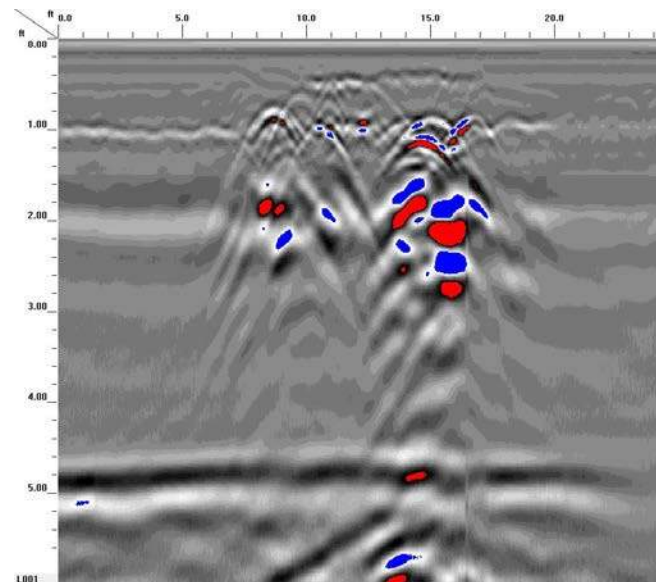
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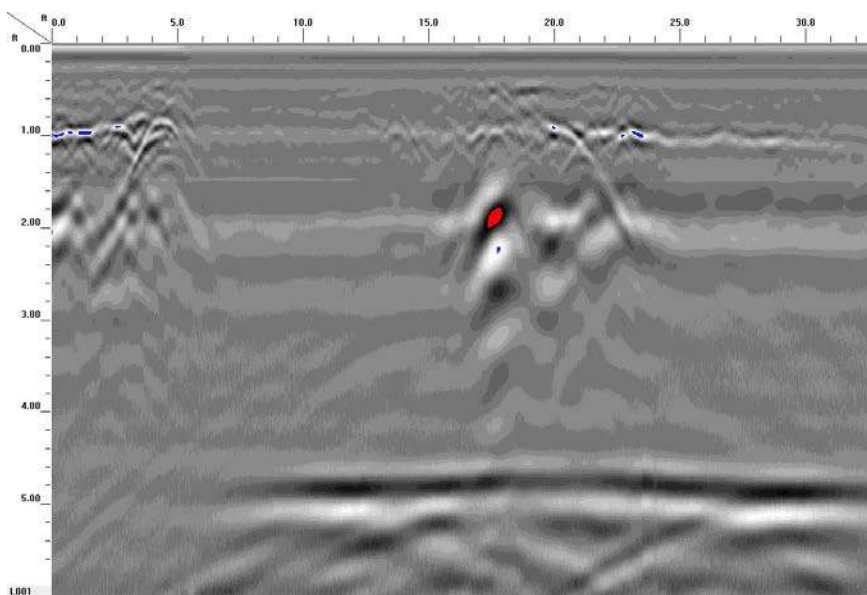
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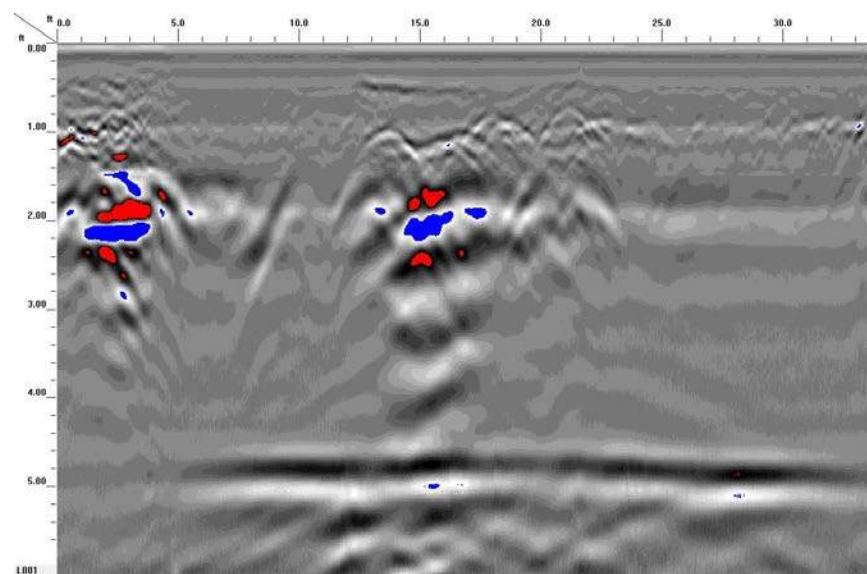
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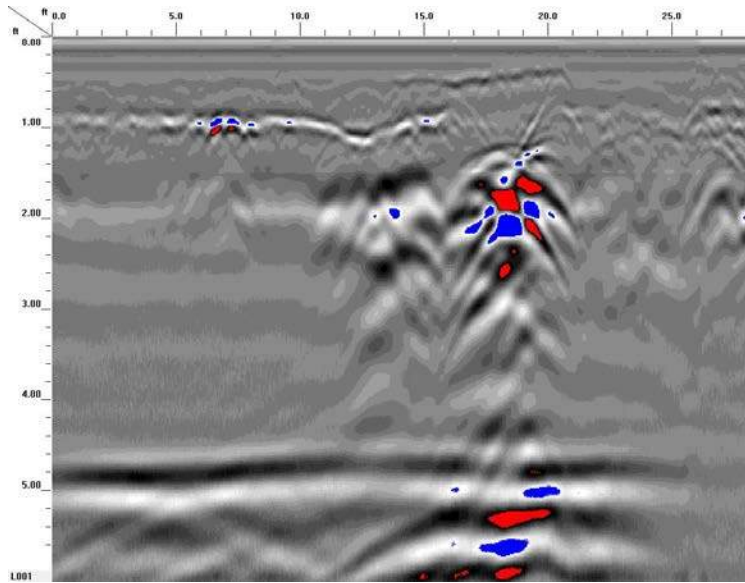
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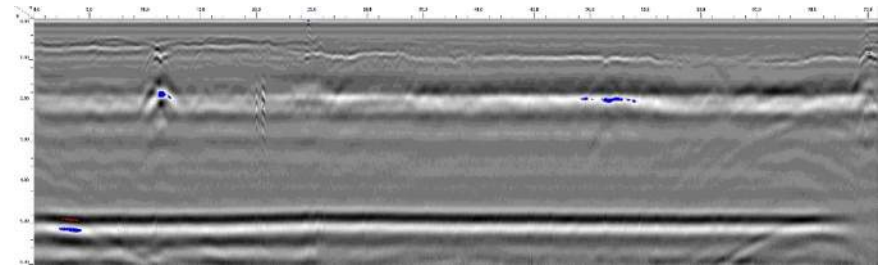
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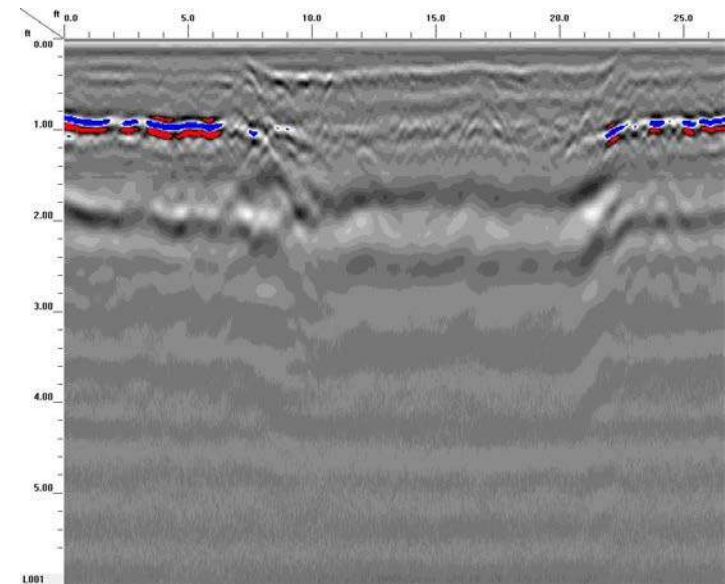
GPR TRANSECT 8



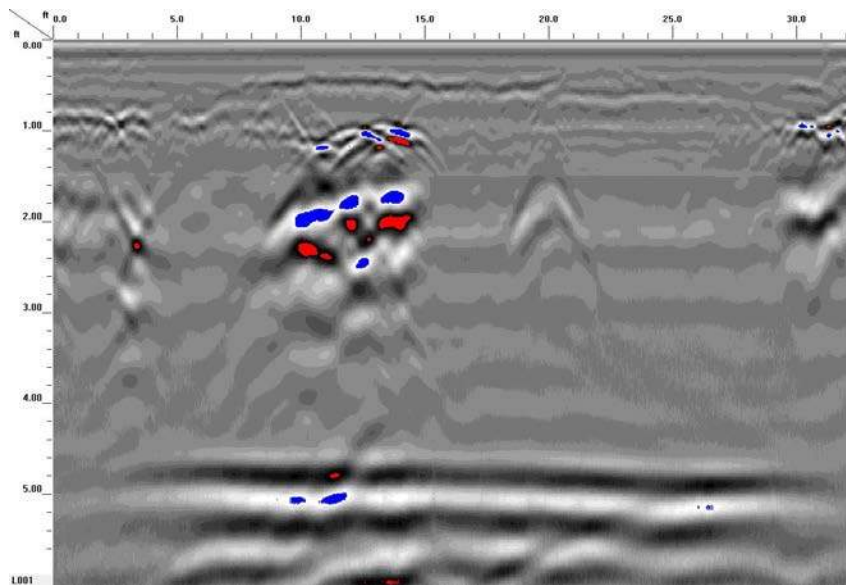
GPR TRANSECT 9



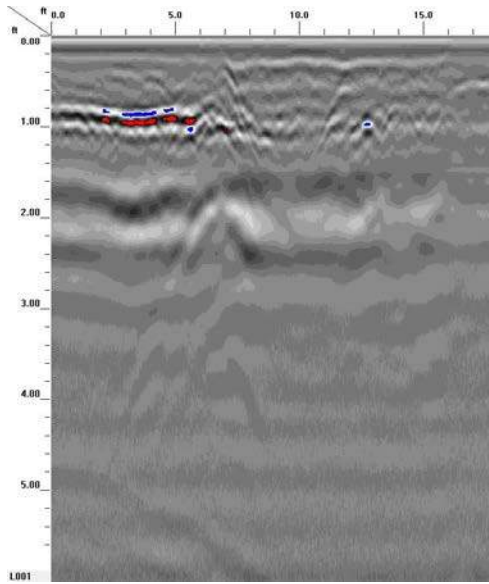
GPR TRANSECT 11



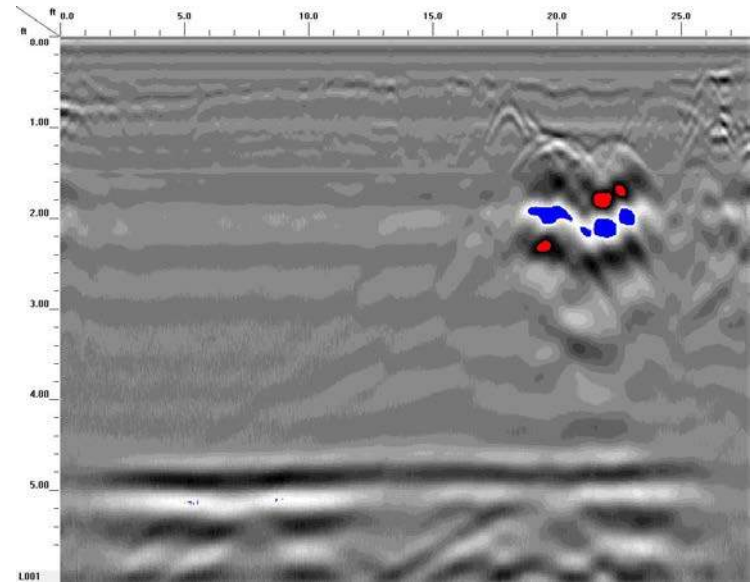
GPR TRANSECT 12



GPR TRANSECT 10



GPR TRANSECT 13




GPR TRANSECT 14

APPENDIX C BORING LOGS

Date Begin - End: 8/05/2019	Drilling Company: Quantex	BORING LOG P13-B1
Logged By: A Shurtleff	Drill Crew: Andrew C	
Hor.-Vert. Datum: WGS 1984 - Not Available	Drilling Equipment: Geunine Geoprobe	
Plunge: -90 degrees	Drilling Method: See Drilling Method Column	
Weather: 80°F Partly Cloudy	Borehole Diameter:	

FIELD EXPLORATION							
Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
						Latitude: 35.83936° N Longitude: -80.25338° E Surface Condition: Asphalt	
Lithologic Description							
5 10 15	Direct Push Sleeves		P13-B1-7			ASPHALT	
						1.0	CLAY: red, dry
						1.6	
						2.8	
						1.8	
						1.4	
						3.3	SILT with Clay: pale red and light brown, dry to moist
						4.7	
						3.6	
						2.0	
4.5	No Recovery; Loose Material						
15.2							
9.4	SILT: pale red and white, moist, trace sand						
5.2							
The borehole was terminated at approximately 15 ft. below ground surface.						GROUNDWATER LEVEL INFORMATION: Groundwater was not observed during drilling or after completion. GENERAL NOTES: An iPad integrated GPS unit was used to locate the borehole with an accuracy of 5 meters. The boring was backfilled with excavated material	

 KLEINFELDER <i>Bright People. Right Solutions.</i>	PROJECT NO.: 20201105.001A	BORING LOG P13-B1	1
	DRAWN BY: A SHURTEFF CHECKED BY: M BURNS DATE: 9/18/2019		
			PAGE: 1 of 1

Date Begin - End: 8/05/2019 **Drilling Company:** Quantex
Logged By: A Shurtleff **Drill Crew:** Andrew C
Hor.-Vert. Datum: WGS 1984 - Not Available **Drilling Equipment:** Geunine Geoprobe
Plunge: -90 degrees **Drilling Method:** See Drilling Method Column
Weather: 80°F Partly Cloudy **Borehole Diameter:**

FIELD EXPLORATION

Latitude: 35.83936° N
 Longitude: -80.25338° E
 Surface Condition: Asphalt

Lithologic Description

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
			P13-B2-4		1.1		ASPHALT
					0.9		CLAY with Silt: red streaked reddish yellow, dry to moist
					1.4		
					1.8		
					1.6		
5					1.4		SILT with Clay: reddish yellow mottled pink, dry to moist
					1.5		
					1.1		
					1.2		
10			P13-B2-12		0.6		SILT: pale red and white, dry to moist
					2.4		
					2.5		
					2.5		
					2.4		
15					1.7		

The borehole was terminated at approximately 15 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
 Groundwater was observed at approximately 15 ft. below ground surface during drilling.
GENERAL NOTES:
 An iPad integrated GPS unit was used to locate the borehole with an accuracy of 5 meters.
 The boring was backfilled with bentonite



PROJECT NO.:
20201105.001A

 DRAWN BY: A SHURTELEFF
 CHECKED BY: M BURNS
 DATE: 9/18/2019

BORING LOG P13-B2

 NCDOT: U-5757
 Biesecker Road
 Lexington, NC

Date Begin - End: 8/05/2019	Drilling Company: Quantex	BORING LOG P13-B3
Logged By: A Shurtleff	Drill Crew: Andrew C	
Hor.-Vert. Datum: WGS 1984 - Not Available	Drilling Equipment: Geunine Geoprobe	
Plunge: -90 degrees	Drilling Method: See Drilling Method Column	
Weather: 80°F Partly Cloudy	Borehole Diameter:	

FIELD EXPLORATION							
Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	Latitude: 35.83936° N Longitude: -80.25338° E Surface Condition: Asphalt
							Lithologic Description

5	Direct Push Sleeves		P13-B3-3				1.9	ASPHALT
							2.0	CLAY with Silt: brown, dry to moist
							2.3	
							2.4	
							2.5	
							2.5	
							2.5	
							2.5	
							2.5	
							10	
0.0								
0.4								
0.3								
0.6								
0.7								
0.5								
0.2								
0.2								
0.2								

The borehole was terminated at approximately 15 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
 Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
 An iPad integrated GPS unit was used to locate the borehole with an accuracy of 5 meters.
 The boring was backfilled with excavated material

	PROJECT NO.: 20201105.001A	BORING LOG P13-B3	3
	DRAWN BY: A SHURTLIFF CHECKED BY: M BURNS DATE: 9/18/2019	NCDOT: U-5757 Biesecker Road Lexington, NC	

Date Begin - End: 8/05/2019 **Drilling Company:** Quantex
Logged By: A Shurtleff **Drill Crew:** Andrew C
Hor.-Vert. Datum: WGS 1984 - Not Available **Drilling Equipment:** Geunine Geoprobe
Plunge: -90 degrees **Drilling Method:** See Drilling Method Column
Weather: 80°F Partly Cloudy **Borehole Diameter:**

FIELD EXPLORATION

Latitude: 35.83936° N
 Longitude: -80.25338° E
 Surface Condition: Asphalt

Lithologic Description

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
			P13-B4-6				ASPHALT
							CLAY with Silt: brown and reddish yellow, dry to moist
							SILT: red nodules pink, dry to moist, trace clay
			P13-B4-10				Limited Recovery; Loose Material
							SILT: reddish brown and yellow, moist

The borehole was terminated at approximately 15 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
 Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
 An iPad integrated GPS unit was used to locate the borehole with an accuracy of 5 meters.
 The boring was backfilled with excavated material



PROJECT NO.:
 20201105.001A
 DRAWN BY: A SHURTEFF
 CHECKED BY: M BURNS
 DATE: 9/18/2019

BORING LOG P13-B4
 NCDOT: U-5757
 Biesecker Road
 Lexington, NC

Date Begin - End: 9/03/2019 **Drilling Company:** SAEDACCO
Logged By: A Shurtleff **Drill Crew:** Brian E
Hor.-Vert. Datum: WGS 1984 - Not Available **Drilling Equipment:** Genuine Geoprobe
Plunge: -90 degrees **Drilling Method:** See Drilling Method Column
Weather: 85°F Clear **Borehole Diameter:**

FIELD EXPLORATION

Latitude: 35.83934° N
 Longitude: -80.25341° E
 Surface Condition: Asphalt

Lithologic Description

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
0.0 - 0.8	Hand Auger		P13-B5-6			ASPHALT
0.8 - 0.4						CLAY with Silt: reddish brown and black, dry to moist
0.4 - 1.3						SILT: red and reddish yellow, dry to moist, trace clay
1.3 - 1.8						
1.8 - 2.1						
2.1 - 3.4						
3.4 - 2.4						SILT: pink and white, dry to moist, trace sand
2.4 - 2.2						
2.2 - 1.9						
1.9 - 0.9						
0.9 - 0.8						
0.8 - 0.8	Direct Push Sleeves					0.8 - 0.5
0.5 - 1.1						
1.1 - 0.8						

The borehole was terminated at approximately 15 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
 Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
 An iPad integrated GPS unit was used to locate the borehole with an accuracy of 5 meters.
 The boring was backfilled with excavated material



PROJECT NO.:
20201105.001A

 DRAWN BY: A SHURLEFF
 CHECKED BY: M BURNS
 DATE: 9/18/2019

BORING LOG P13-B5

 NCDOT: U-5757
 Biesecker Road
 Lexington, NC

Date Begin - End: 9/03/2019 **Drilling Company:** SAEDACCO
Logged By: A Shurtleff **Drill Crew:** Brian E
Hor.-Vert. Datum: WGS 1984 - Not Available **Drilling Equipment:** Genuine Geoprobe
Plunge: -90 degrees **Drilling Method:** See Drilling Method Column
Weather: 85°F Clear **Borehole Diameter:**

FIELD EXPLORATION

Latitude: 35.83934° N
 Longitude: -80.25341° E
 Surface Condition: Asphalt

Lithologic Description

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	
	Hand Auger						ASPHALT
0.7							SILT with Clay: red and reddish yellow, dry
2.0							
2.1							
2.4							
2.2							
2.4							
1.1							SILT: red, dry to moist, increasingly micaceous
2.0							
1.5							
1.1							SILT: reddish brown and reddish yellow, moist
0.3							
0.6							
1.1							SILT: pink and white, moist to wet, trace sand and gravel
1.7							
0.6							

The borehole was terminated at approximately 15 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
 Groundwater was observed at approximately 15 ft. below ground surface during drilling.
GENERAL NOTES:
 An iPad integrated GPS unit was used to locate the borehole with an accuracy of 5 meters.
 The boring was backfilled with bentonite



PROJECT NO.:
 20201105.001A
 DRAWN BY: A SHURLEFF
 CHECKED BY: M BURNS
 DATE: 9/18/2019

BORING LOG P13-B6

NCDOT: U-5757
 Biesecker Road
 Lexington, NC

Date Begin - End: 9/03/2019 **Drilling Company:** SAEDACCO
Logged By: A Shurtleff **Drill Crew:** Brian E
Hor.-Vert. Datum: WGS 1984 - Not Available **Drilling Equipment:** Genuine Geoprobe
Plunge: -90 degrees **Drilling Method:** See Drilling Method Column
Weather: 85°F Clear **Borehole Diameter:**

FIELD EXPLORATION

Latitude: 35.83934° N
 Longitude: -80.25341° E
 Surface Condition: Asphalt

Lithologic Description

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log
5	Hand Auger					0.0
						0.6
						1.6
						1.6
						1.1
						0.8
						0.8
						2.7
						1.1
						0.3
10	Direct Push Sleeves					0.2
						0.2
						0.8
						0.2
						0.8
						0.4
15						

ASPHALT

CLAY with Silt: reddish brown and brown, dry, trace gravel

SILT with Clay: red and reddish yellow, dry

SILT: reddish yellow and red, dry to moist

The borehole was terminated at approximately 15 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
 Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
 An iPad integrated GPS unit was used to locate the borehole with an accuracy of 5 meters.
 The boring was backfilled with excavated material



PROJECT NO.:
20201105.001A

DRAWN BY: A SHURLEFF

CHECKED BY: M BURNS

DATE: 9/18/2019

BORING LOG P13-B7

NCDOT: U-5757
 Biesecker Road
 Lexington, NC

APPENDIX D
ANALYTICAL REPORT AND GRAPHS



Hydrocarbon Analysis Results

Client: KLEINFELDER

Address:

Samples taken

Monday, August 5, 2019

Samples extracted

Monday, August 5, 2019

Samples analysed

Monday, August 5, 2019

Contact: ABIGAIL SHURTLEFF

Operator

CAROLINE STEVENS

Project: NCDOT U-5757

U00904

Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	% Ratios			HC Fingerprint Match
										C5 - C10	C10 - C18	C18	
s	P13-B1-7	14.9	<0.37	4.1	1.7	5.8	1.1	<0.12	<0.015	90.9	6.1	3	Deg Fuel 74.3%,(FCM),(BO)
s	P13-B2-4	13.9	<0.35	<0.35	<0.35	0.2	0.2	<0.11	<0.014	0	55.4	44.6	Residual HC
s	P13-B1-14	16.3	<0.41	1	10.5	11.5	8.3	0.31	<0.016	26.2	54.7	19.1	Deg Fuel 77.4%,(FCM)
s	P13-B2-12	13.2	<0.33	<0.33	0.91	0.91	0.47	<0.11	<0.013	0	68.4	31.6	Deg.PHC 75.9%,(FCM)

Initial Calibrator QC check **OK**

Final FCM QC Check **OK**

96 %

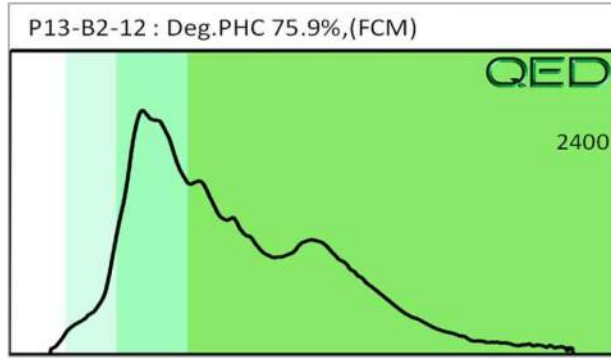
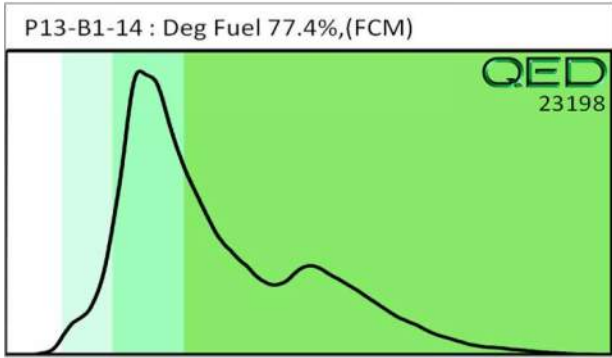
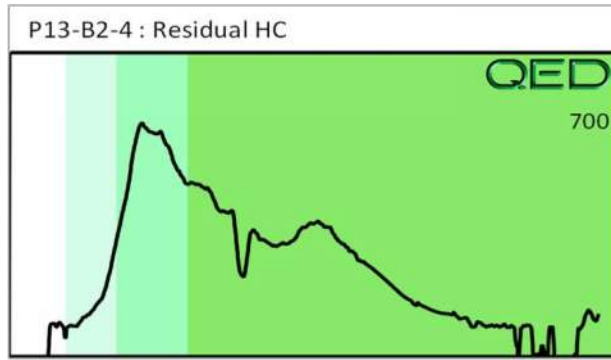
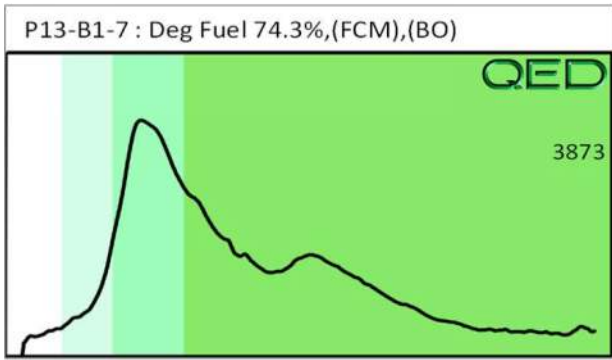
Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values uncorrected for moisture or stone content. Fingerprints provide a tentative hydrocarbon identification.

Abbreviations :- FCM = Results calculated using Fundamental Calibration Mode : % = confidence of hydrocarbon identification : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate detected

B = Blank Drift : (SBS)/(LBS) = Site Specific or Library Background Subtraction applied to result : (BO) = Background Organics detected : (OCR) = Outside cal range : (M) = Modified Result.

% Ratios estimated aromatic carbon number proportions : HC = Hydrocarbon : PHC = Petroleum HC : FP = Fingerprint only.

Data generated by HC-1 Analyser





Hydrocarbon Analysis Results

Client: KLEINFELDER

Address:

Samples taken

Monday, August 5, 2019

Samples extracted

Monday, August 5, 2019

Samples analysed

Monday, August 5, 2019

Contact: ABIGAIL SHURTLEFF

Operator

CAROLINE STEVENS

Project: NCDOT U-5757

U00904

Matrix	Sample ID	Dilution used	BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP	% Ratios			HC Fingerprint Match
										C5 - C10	C10 - C18	C18	
s	P13-B3-3	13.2	<0.33	3.6	<0.33	3.6	0.17	<0.11	<0.013	99	0.6	0.4	Deg.PHC 88.8%,(FCM)
s	P13-B3-8	16.9	<0.42	<0.42	1.4	1.4	0.77	<0.13	<0.017	0	71.4	28.6	Deg Fuel 76.8%,(FCM)
s	P13-B4-6	11.7	<0.29	<0.29	1.3	1.3	0.65	<0.09	<0.012	0	75.8	24.2	Deg Fuel 75%,(FCM)
s	P13-B4-10	10.8	<0.27	<0.27	10.9	10.9	8.8	0.31	<0.011	0	76	24	Deg Fuel 76.5%,(FCM),(BO)

Initial Calibrator QC check OK

Final FCM QC Check OK

104.3 %

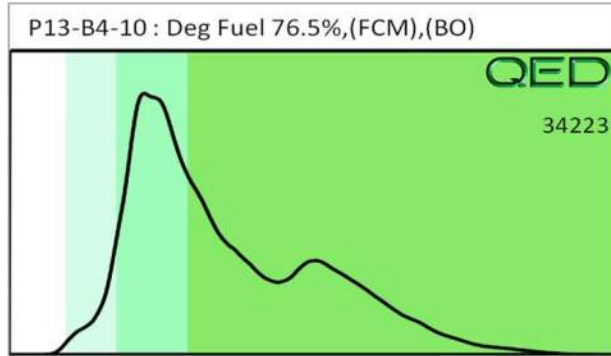
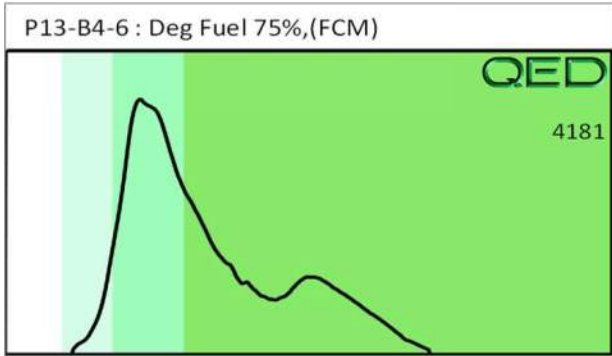
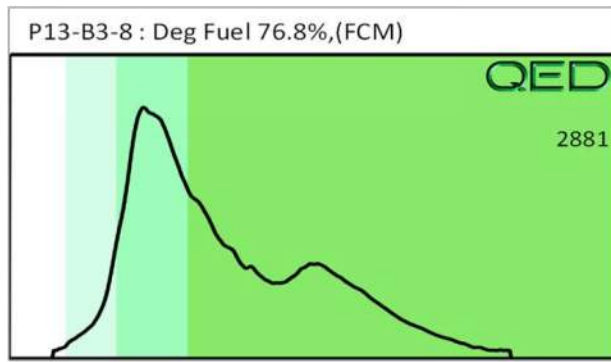
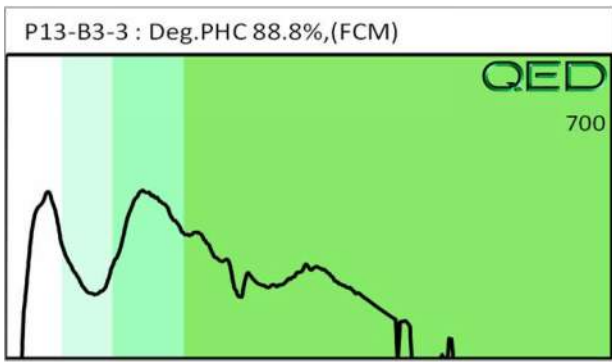
Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values uncorrected for moisture or stone content. Fingerprints provide a tentative hydrocarbon identification.

Abbreviations :- FCM = Results calculated using Fundamental Calibration Mode : % = confidence of hydrocarbon identification : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate detected

B = Blank Drift : (SBS)/(LBS) = Site Specific or Library Background Subtraction applied to result : (BO) = Background Organics detected : (OCR) = Outside cal range : (M) = Modified Result.

% Ratios estimated aromatic carbon number proportions : HC = Hydrocarbon : PHC = Petroleum HC : FP = Fingerprint only.

Data generated by HC-1 Analyser



Kleinfelder SE, Inc. (Morrisville)
Mike Burns
3200 Gateway Centre Blvd. Suite 100
Morrisville, NC 27560

Project: U5757

Lab Submittal Date: 09/05/2019
Prism Work Order: 9090051

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

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

Respectfully,

PRISM LABORATORIES, INC.



Angela D. Overcash
VP Laboratory Services



Reviewed By Terri W. Cole For Angela D. Overcash
Project Manager

Data Qualifiers Key Reference:

- RLM Sample container suspected to have low methanol content. Results possibly biased high.
- SR Surrogate recovery outside the QC limits.
- BRL Below Reporting Limit
- MDL Method Detection Limit
- RPD Relative Percent Difference
- * Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Client Sample ID	Lab Sample ID	Matrix	Date/Time Sampled	Date/Time Received
P62-B8-1	9090051-01	Solid	09/03/19 17:15	09/05/19 17:00
P13-B5-6	9090051-02	Solid	09/03/19 11:25	09/05/19 17:00
P50-B4-5	9090051-03	Solid	09/03/19 16:00	09/05/19 17:00

Samples were received in good condition at 2.4 degrees C unless otherwise noted.

Prism ID	Client ID	Parameter	Method	Result	Units
9090051-01	P62-B8-1	Diesel Range Organics	*8015C	32	mg/kg dry

Kleinfelder SE, Inc. (Morrisville)
Attn: Mike Burns
3200 Gateway Centre Blvd. Suite 100
Morrisville, NC 27560

Project: U5757

Sample Matrix: Solid

Client Sample ID: P62-B8-1
Prism Sample ID: 9090051-01
Prism Work Order: 9090051
Time Collected: 09/03/19 17:15
Time Submitted: 09/05/19 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	32	mg/kg dry	8.2	2.8	1	*8015C	9/9/19 13:01	ZRC	P9I0080
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			78 %		31-123	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.0	1.6	50	*8015C	9/9/19 13:46	TBL	P9I0087
			Surrogate			Recovery		Control Limits	RLM
			a,a,a-Trifluorotoluene			141 %		50-137	SR
General Chemistry Parameters									
% Solids	85.0	% by Weight	0.100	0.100	1	*SM2540 G	9/9/19 7:50	EDV	P9I0085

Kleinfelder SE, Inc. (Morrisville)
Attn: Mike Burns
3200 Gateway Centre Blvd. Suite 100
Morrisville, NC 27560

Project: U5757

Sample Matrix: Solid

Client Sample ID: P13-B5-6
Prism Sample ID: 9090051-02
Prism Work Order: 9090051
Time Collected: 09/03/19 11:25
Time Submitted: 09/05/19 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.6	2.9	1	*8015C	9/6/19 19:50	ZRC	P9I0080
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			83 %		31-123	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.2	1.7	50	*8015C	9/9/19 14:14	TBL	P9I0087
			Surrogate			Recovery		Control Limits	RLM
			a,a,a-Trifluorotoluene			163 %		50-137	SR
General Chemistry Parameters									
% Solids	81.5	% by Weight	0.100	0.100	1	*SM2540 G	9/9/19 7:50	EDV	P9I0085

Kleinfelder SE, Inc. (Morrisville)
Attn: Mike Burns
3200 Gateway Centre Blvd. Suite 100
Morrisville, NC 27560

Project: U5757

Sample Matrix: Solid

Client Sample ID: P50-B4-5
Prism Sample ID: 9090051-03
Prism Work Order: 9090051
Time Collected: 09/03/19 16:00
Time Submitted: 09/05/19 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.5	2.8	1	*8015C	9/6/19 20:28	ZRC	P9I0080
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			75 %		31-123	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.8	1.9	50	*8015C	9/9/19 14:42	TBL	P9I0087
			Surrogate			Recovery		Control Limits	RLM
			a,a,a-Trifluorotoluene			153 %		50-137	SR
General Chemistry Parameters									
% Solids	82.6	% by Weight	0.100	0.100	1	*SM2540 G	9/9/19 7:50	EDV	P9I0085

Kleinfelder SE, Inc. (Morrisville)
Attn: Mike Burns
3200 Gateway Centre Blvd. Suite 100
Morrisville, NC 27560

Project: U5757

Prism Work Order: 9090051
Time Submitted: 9/5/2019 5:00:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9I0087 - 5030B										
Blank (P9I0087-BLK1)										
Prepared & Analyzed: 09/09/19										
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	5.75		mg/kg wet	5.000		115	50-137			
LCS (P9I0087-BS1)										
Prepared & Analyzed: 09/09/19										
Gasoline Range Organics	49.2	5.0	mg/kg wet	50.00		98	41-138			
Surrogate: a,a,a-Trifluorotoluene	5.55		mg/kg wet	5.000		111	50-137			
LCS Dup (P9I0087-BSD1)										
Prepared & Analyzed: 09/09/19										
Gasoline Range Organics	49.5	5.0	mg/kg wet	50.00		99	41-138	0.6	20	
Surrogate: a,a,a-Trifluorotoluene	5.35		mg/kg wet	5.000		107	50-137			

Kleinfelder SE, Inc. (Morrisville)
 Attn: Mike Burns
 3200 Gateway Centre Blvd. Suite 100
 Morrisville, NC 27560

Project: U5757

Prism Work Order: 9090051
 Time Submitted: 9/5/2019 5:00:00PM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9I0080 - 3546										
Blank (P9I0080-BLK1) Prepared & Analyzed: 09/06/19										
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	1.09		mg/kg wet	1.333		82	31-123			
LCS (P9I0080-BS1) Prepared & Analyzed: 09/06/19										
Diesel Range Organics	67.9	7.0	mg/kg wet	66.67		102	46-126			
Surrogate: o-Terphenyl	1.16		mg/kg wet	1.333		87	31-123			
LCS Dup (P9I0080-BSD1) Prepared & Analyzed: 09/06/19										
Diesel Range Organics	68.6	7.0	mg/kg wet	66.67		103	46-126	1	20	
Surrogate: o-Terphenyl	1.17		mg/kg wet	1.333		88	31-123			
Matrix Spike (P9I0080-MS1) Source: 9090051-03 Prepared & Analyzed: 09/06/19										
Diesel Range Organics	69.1	8.4	mg/kg dry	80.46	BRL	86	50-117			
Surrogate: o-Terphenyl	1.18		mg/kg dry	1.609		74	31-123			
Matrix Spike Dup (P9I0080-MSD1) Source: 9090051-03 Prepared & Analyzed: 09/06/19										
Diesel Range Organics	65.9	8.5	mg/kg dry	80.73	BRL	82	50-117	5	24	
Surrogate: o-Terphenyl	1.17		mg/kg dry	1.615		73	31-123			

Sample Extraction Data

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
9090051-01	P9I0080	30.1 g	1 mL	09/06/19 9:35
9090051-02	P9I0080	30.11 g	1 mL	09/06/19 9:35
9090051-03	P9I0080	30.03 g	1 mL	09/06/19 9:35

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
9090051-01	P9I0087	4.92 mL	5 mL	09/09/19 7:39
9090051-02	P9I0087	4.94 mL	5 mL	09/09/19 7:39
9090051-03	P9I0087	4.44 mL	5 mL	09/09/19 7:39

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
9090051-01	P9I0085	30 g	30 g	09/06/19 13:40
9090051-02	P9I0085	30 g	30 g	09/06/19 13:40
9090051-03	P9I0085	30 g	30 g	09/06/19 13:40

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Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

Client Company Name: Kleinfelder
Report To/Contact Name: Mike Burns
Reporting Address: 3200 Gateway Centre Blvd
Suite 100, Morrisville, NC
Phone: 919 755 5011 Fax (Yes/No): _____
Email Address: mburns@kleinfelder.com
EDD Type: PDF Excel Other
Site Location Name: U5757
Site Location Physical Address: Winston Road
Lexington, NC

CHAIN OF CUSTODY RECORD

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

Project Name: U5757 NCDOT
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL II III IV) provisions and/or QC Requirements
Invoice To: SAME
Address: _____

LAB USE ONLY			
	YES	NO	N/A
Samples INTACT upon arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received ON WET ICE?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEMP: Therm ID: <u>14</u> Observed: <u>23</u> °C / Corr: <u>2.4</u> °C			

Page 9 of 9

Purchase Order No./Billing Reference 20201105-001A
Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
"Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

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

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSIS REQUESTED				REMARKS	PRISM LAB ID NO.	
				*TYPE SEE BELOW	NO.	SIZE		PRO	GRO					
P62-B8-1	9/13/19	1715	SOIL	CG	1	4oz	None	X						01
↓	↓	1715	↓	VOA	2	/	Methanol		X					1
P13-B5-6	↓	1125	↓	CG	1	4oz	None	X						02
↓	↓	1125	↓	VOA	2	/	Methanol		X					↓
P50-B4-5	↓	1600	↓	CG	1	4oz	None	X						03
↓	↓	1600	↓	VOA	2	/	Methanol		X					↓

Sampler's Signature Abigail Shurtleff Sampled By (Print Name) Abigail Shurtleff Affiliation KLF

PRESS DOWN FIRMLY - 3 COPIES

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

Relinquished By: (Signature) <u>Coleen Killinger</u>	Received By: (Signature) <u>Philip Reize</u>	Date	Military/Hours
<u>Coleen Killinger</u>	<u>Philip Reize</u>	<u>09/04/19</u>	<u>15:25</u>
Relinquished By: (Signature) <u>Philip Reize</u>	Received By: (Signature) <u>Wol</u>	Date	Military/Hours
<u>Philip Reize</u>	<u>Wol</u>	<u>9-05-19</u>	<u>1635</u>
Relinquished By: (Signature) <u>[Signature]</u>	Received For Prism Laboratories By: <u>[Signature]</u>	Date	Military/Hours
<u>[Signature]</u>	<u>[Signature]</u>	<u>9-05-19</u>	<u>17:00</u>
Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.		COC Group No. <u>9090051</u>	

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES: NC SC NC SC
UST: NC SC NC SC
GROUNDWATER: NC SC
DRINKING WATER: NC SC
SOLID WASTE: NC SC
RCRA: NC SC
CERCLA: NC SC
LANDFILL: NC SC
OTHER: NC SC

SEE REVERSE FOR TERMS & CONDITIONS

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

ORIGINAL

APPENDIX E
PAGES FROM PREVIOUS REPORTS



**North Carolina Department of Environmental Quality
Underground Storage Tank
UST-10B**

Printed: 2/23/2018 7:18 AM
Inspection Result: Failed
Partial Inspection: No

Inspection Date: 2/20/2018
Arrive and Depart Times: 11:15 AM-11:45 AM

Facility ID:	00-0-0000024863	Inspector	Jason Chapple
Facility Name	GRAB & GO 12	Insp. Type	Compliance
Facility Address	1009 WINSTON ROAD LEXINGTON, NC 27292 Davidson County Located facility, USTs onsite	Reason(s)	Routine Compliance
		Location	35.839352, -80.253364
		Permit Exp.	3/31/2018
Facility Phone	(336) 841-4165		

CONTACTS

Contact Type	Contact Information
Regulatory Operator since 2/28/2013	DSF OF NC, INC. , 4401 UNITED STREET GREENSBORO, NC 27407-1313, Phone: (336) 285-7474
Regulatory Owner since 2/28/2013	DSF OF NC, INC. , 4401 UNITED STREET GREENSBORO, NC 27407-1313, Phone: (336) 285-7474
Owner since 2/28/2013	DSF OF NC, INC. , 4401 UNITED STREET GREENSBORO, NC 27407-1313, Phone: (336) 285-7474
Manager since 9/13/2014	LOVLEEN KAUR, 1009 WINSTON RD. LEXINGTON, NC 27295, Phone: (336) 558-7828
Regulatory Operator since 9/13/2014	S N FOOD MART 2, INC. , 1009 WINSTON RD. LEXINGTON, NC 27295, Phone: (336) 558-7828
Owner Auth Rep since 2/28/2013	SHEHZAD QUAMAR, 2105 NEEDLE LEAF LANE GREENSBORO, NC 27410, Phone: (336) 215-6655
Manager since 2/28/2013	SHEHZAD QUAMAR, 2105 NEEDLE LEAF LANE GREENSBORO, NC 27410, Phone: (336) 215-6655

OWNERSHIP CHANGE

New Owner	Change Date	Basis	Transfer of Ownership Form (UST-15) Submitted

EMERGENCY RESPONSE

Emergency response placard with emergency response operator contact information is posted in the dispensing areas if the dispensers are left on without an attendant present?	N/A
---	-----

OTHER PARTICIPANTS

Name	Organization
Ed Lyles	

INSPECTOR COMMENTS

Type	Date	Comment
------	------	---------

ADDITIONAL INSPECTOR COMMENTS

10-29-2010, Letter from Tim Stanley verifies tanks. He excavated to visually verify.
Siphon bars are FRP.

TANKS AND PIPING INFORMATION

Tanks	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
Tank ID	1-Reg	2-Reg	3-Pre	4-Dsl	5-Dsl
TIMS Tank ID	1	2	3	4	5
Is tank registered?	Yes	Yes	Yes	Yes	Yes
Date tank installed	11/11/1986	11/11/1986	11/11/1986	11/11/1986	11/11/1986
Capacity of Tank in Gallons	6000	6000	6000	2000	2000
Tank / Product use	Motor Fuel	Motor Fuel	Motor Fuel	Motor Fuel	Motor Fuel
Product stored in Tank	Gasoline, Gas Mix	Gasoline, Gas Mix	Gasoline, Gas Mix	Diesel	Diesel
Product Detail	Regular	Regular	Premium		
If hazardous substance, CAS# or description					
If other, description					
Tank Status	Current	Current	Current	Current	Current
Tank closure report submitted					
Date tank last operated					
Inches of product in Tank					
Manifolded Tank	Yes	Yes	No	Yes	Yes
Manifolded with tanks	#2(2-Reg)	#1(1-Reg)		#5(5-Dsl)	#4(4-Dsl)
New Tank System installed in accordance with NC or MI					
Tank Construction Material (DW required after 11/1/07)	Single Wall Steel/FRP	Single Wall Steel/FRP	Single Wall Steel/FRP	Single Wall Steel/FRP	Single Wall Steel/FRP
If other, description					
Tank Manufacturer/Model	Unknown	Unknown	Unknown	Unknown	Unknown

Tanks	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
If other, describe					
Tank material verified by	Petroleum Equip Contractor	Petroleum Equip Contractor	Petroleum Equip Contractor	Petroleum Equip Contractor	Petroleum Equip Contractor
Date Pipe Installed	3/31/1993	3/31/1993	3/31/1993	3/31/1993	3/31/1993
Was UST Piping Installed on or after 11/1/2007?	No	No	No	No	No
Piping Construction Material (DW required after 11/1/07)	Double Wall Flex	None	Double Wall Flex	Double Wall Flex	None
If other, description					
Pipe Manufacturer/Model	Unknown	Unknown	Unknown	Unknown	Unknown
If other, describe					
Pipe material verified by	Visual	Visual	Visual	Visual	Visual
If E-blend > 10% or Biodiesel Blend > 20%; Was UST-20 completed and approved?	N/A	N/A	N/A	N/A	N/A

CORROSION PROTECTION

Tank Corrosion Protection	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
DWM notified of current CP method	Yes	Yes	Yes	Yes	Yes
Integrity assessment performed after 3/1/06	No	No	No	No	No
CP Method 1	Steel/FRP Composite	Steel/FRP Composite	Steel/FRP Composite	Steel/FRP Composite	Steel/FRP Composite
if other, Description					
CP Installation Date	3/31/1993	3/31/1993	3/31/1993	3/31/1993	3/31/1993
CP Method 2					
if other, Description					
CP Installation Date					
Flex Connector , Piping Extensions, and/or other metal fittings Present	Other Metal, Flex Connector, Elbow, Ball Valve	N/A (for Manifold <11/1/07 Only)	Other Metal, Flex Connector, Elbow, Ball Valve	Other Metal, Flex Connector, Elbow, Ball Valve	N/A (for Manifold <11/1/07 Only)
Flex connector isolated from ground	Yes	N/A	Yes	Yes	N/A
Source of verification of CP for Flex Connectors, piping extensions and/or other metal fittings	Visual	Visual	Visual	Visual	Visual

Tank Corrosion Protection	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
if other, Description					
Submersible pump (STP) is isolated from ground	Yes	N/A	Yes	Yes	N/A
Piping extensions and/or other metal fittings are isolated from ground	Yes	N/A	Yes	Yes	N/A
Flex connector, STP and/or other metal fittings protected from corrosion	N/A	N/A	N/A	N/A	N/A
Corrosion protection method	Isolated	Isolated	Isolated	Isolated	Isolated
Flex connector , Piping extensions, and/or other metal fittings CP Installation Date					
Dielectric Coating Installed (If tank installed after 12/22/88	N/A	N/A	N/A	N/A	N/A

Pipe Corrosion Protection	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
DWM notified of current CP method	Yes	Yes	Yes	Yes	Yes
CP method	Flexible	Flexible	Flexible	Flexible	Flexible
if other, Description					
CP Installation Date	3/31/1993	3/31/1993	3/31/1993	3/31/1993	3/31/1993
Dielectric Coating Installed (If piping installed after 12/22/88	N/A	N/A	N/A	N/A	N/A

Dispenser Corrosion Protection	Dispenser #1(1/2)	Dispenser #2(3/4)	Dispenser #3(5/6)
Flex Connector , Piping Extensions, and/or other metal fittings Present	Flex Connector	Flex Connector	Flex Connector
Flex connector isolated from ground	Yes	Yes	Yes
Source of verification of CP for Flex Connectors, piping extensions and/or other metal fittings	Visual	Visual	Visual
if other, Description			
Piping extensions and/or other metal fittings are isolated from ground	Yes	Yes	Yes
Flex Connectors, Piping extensions and/or other metal fittings protected from corrosion	N/A	N/A	N/A
Corrosion protection method	Isolated	Isolated	Isolated
Flex connector, Piping extensions, and/or other metal fittings CP Installation Date			
Source of Information for verification of corrosion protection for Riser pipe and other metal piping	Visual	Visual	Visual
if other, Description			

CP Conclusions	
CP Requirements Met?	Yes
Issues	

SPILL PREVENTION

Has DWM been notified of spill methods?	Yes
---	-----

Spill/Overfill Details	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
Is a drop tube present?	Yes	Yes	Yes	Yes	Yes
Type of Stage I vapor recovery?	Dual Point	Dual Point	Dual Point	Not Required	Not Required

Local Fill	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
Does Tank have a Remote Fill?	No	No	No	No	No
Spill Protection	Catchment Basin	Catchment Basin	Catchment Basin	Catchment Basin	Catchment Basin
Is spill prevention equipment provided and verified?	Yes	Yes	Yes	Yes	Yes
Manufacturer/Model	Pemco: 112XXX Series	Pemco: 112XXX Series	Pemco: 112XXX Series	Pemco: 112XXX Series	Pemco: 112XXX Series
If other, describe					
Spill bucket is double-walled? (If installed after 11/1/07)	N/A	N/A	N/A	N/A	N/A
Spill bucket is isolated or made of non-corroding materials? (If installed after 11/1/07)	N/A	N/A	N/A	N/A	N/A
Date spill prevention provided	3/31/1993	3/31/1993	3/31/1993	3/31/1993	3/31/1993
Is spill prevention operating properly?	Yes	Yes	Yes	Yes	Yes
If No, select all that apply					
If other, describe					

OVERFILL PREVENTION

Has DWM been notified of overfill methods?	Yes
--	-----

Overfill Control	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
Is overfill prevention equipment provided and verified?	Yes	Yes	Yes	Yes	Yes
Date overfill control provided	3/31/1993	3/31/1993	3/31/1993	3/31/1993	3/31/1993

Overfill Control	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
Type of overfill equipment	Auto Shutoff Device	Auto Shutoff Device	Auto Shutoff Device	Auto Shutoff Device	Auto Shutoff Device
Source of information for overfill control verification	Visual observation	Visual observation	Visual observation	Visual observation	Visual observation
If other, describe					
Is overfill control operating properly?	Yes	Yes	Yes	Yes	Yes
If No, select all that apply					
If other, describe					
Annual overfill check date(If installed after 11/1/07) (UST-22A)					
Annual overfill check results(UST-22A)					

Dispenser Sumps	Dispenser #1(1/2)	Dispenser #2(3/4)	Dispenser #3(5/6)
Are containment sumps present?	Yes	Yes	Yes
Installation Date	3/31/1993	3/31/1993	3/31/1993
Sump Manufacturer	Frank Fuel: APT Disp Sump	Frank Fuel: APT Disp Sump	Frank Fuel: APT Disp Sump
If Other (Specify)			
Sump Construction Type	Single Walled	Single Walled	Single Walled
Sump Construction Material	Plastic	Plastic	Plastic
If Other (Specify)			
Are containment sumps monitored?	No	No	No
Is monitoring required per 2N .0900?	No	No	No
Piping components and/or STP were installed/replaced on or after 11/1/07?	No	No	No
Are spills or small weeps evident in sumps?	No	No	No
Are single wall piping components located in containment sump? (If installed after 11/1/07)			

Other Sumps	Sump#1(Reg STP)	Sump#2(Reg TT)	Sump#3(Pre STP)	Sump#4(Dsl STP)	Sump#5(Dsl TT)
Are containment sumps present?	Yes	Yes	Yes	Yes	Yes
Installation Date	3/31/1993	3/31/1993	3/31/1993	3/31/1993	3/31/1993
Sump Manufacturer	Frank Fuel: APT Tank Sump	Frank Fuel: APT Tank Sump	Frank Fuel: APT Tank Sump	Frank Fuel: APT Tank Sump	Frank Fuel: APT Tank Sump
If Other (Specify)					
Sump Construction Type	Single Walled	Single Walled	Single Walled	Single Walled	Single Walled
Sump Construction Material	Plastic	Plastic	Plastic	Plastic	Plastic
If Other (Specify)					
Are containment sumps monitored?	No	No	No	No	No
Is monitoring required	No	No	No	No	No

Other Sumps per 2N .0900?	Sump#1(Reg STP)	Sump#2(Reg TT)	Sump#3(Pre STP)	Sump#4(Dsl STP)	Sump#5(Dsl TT)
Piping components and/or STP were installed/replaced on or after 11/1/07?	No	No	No	No	No
Are spills or small weeps evident in sumps?	No	No	No	No	No
Are single wall piping components located in containment sump? (If installed after 11/1/07)					

SITING AND SECONDARY CONTAINMENT

Siting And Sec.Containment-General	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
UST system upgraded with corrosion protection, spill and overflow before 1/1/91?	No	No	No	No	No
UST system and/or piping are located within siting and secondary containment areas?	No	No	No	No	No

LEAK DETECTION

General	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
DWM notified of leak detection method?	Yes	Yes	Yes	Yes	Yes
Piping type	Pressurized System	Manifold Bar	Pressurized System	Pressurized System	Manifold Bar
Suction Check Type					
Type LLD present.	ELLD		MLLD	ELLD	
Tank – Primary leak detection method	Automatic Tank Gauging	Automatic Tank Gauging	Automatic Tank Gauging	Automatic Tank Gauging	Automatic Tank Gauging
Tank - if other, specify					
Tank - Primary LD install date	3/31/1993	3/31/1993	3/31/1993	3/31/1993	3/31/1993
Tank – Secondary leak detection method					
Tank - if other, specify					
Piping - Primary leak detection method	Line Tightness Testing (LTT)	Not Required	Line Tightness Testing (LTT)	Line Tightness Testing (LTT)	Not Required
Piping - if other, specify					
Piping - Primary LD install date	3/31/1993	3/31/1993	3/31/1993	3/31/1993	3/31/1993

General	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
Piping - Secondary leak detection method					
Piping - if other, specify					

PIPING LEAK DETECTION

Pressurized Piping	Tank #1(1-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)
Last MLLD/ELLD Test Date			
MLLD/ELLD Test Result			
Last LTT Test Date			
LTT Test Result			
Does test result indicate suspected release?			
Number of MLLD/ELLD Types	1	1	1

MLLD/ELLD Equipment	Tank #1(1-Reg) LLD #1	Tank #3(3-Pre) LLD #1	Tank #4(4-Dsl) LLD #1
MLLD/ELLD Manufacturer/Model	V-R: PLLD Series 8484	V-R: FX1V	V-R: PLLD Series 8484
If other, describe			
MLLD/ELLD Third Party Certified?	Yes	Yes	Yes

AUTOMATIC TANK GAUGE

ATG Systems	ATG #1
ATG Manufacturer/Model	V-R: TLS-350 CSLD
If other, describe	
ATG Third Party Certified?	Yes
Is ATG console operational?	Yes
Tanks	#1(1-Reg), #2(2-Reg), #3(3-Pre), #4(4-Dsl), #5(5-Dsl)

ATG Monthly LD	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
2018 Feb	None	None	None	None	None
2018 Jan	None	None	None	None	None
2017 Dec	None	None	None	None	None
2017 Nov	None	None	None	None	None
2017 Oct	None	None	None	None	None
2017 Sep	None	None	None	None	None
2017 Aug	None	None	None	None	None
2017 Jul	None	None	None	None	None

ATG Monthly LD	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
2017 Jun	None	None	None	None	None
2017 May	None	None	None	None	None
2017 Apr	None	None	None	None	None
2017 Mar	None	None	None	None	None

ATG Conclusions	
Leak Detection Requirements Met?	No
Do the results indicate a suspected release?	No
Issues	0.2 Test not conducted for 3 or more months (LD1*), Records not available (RCD5)

TRANSPORTER/FUEL DELIVERY INFORMATION

Delivery Information	Tank #1(1-Reg)	Tank #2(2-Reg)	Tank #3(3-Pre)	Tank #4(4-Dsl)	Tank #5(5-Dsl)
All deliveries made to permitted tanks	Yes	Yes	Yes	Yes	Yes

SITE DIAGRAM 1



WS-8861

#44108

4

UST-61 24-Hour Release and UST Leak Reporting Form.

For Releases in NC This form should be completed and submitted to the UST Section's regional office following a known or suspected release from an underground storage tank (UST) system. This form is required to be submitted within 24 hours of discovery of a known or suspected release

Incident # _____ Received On _____ Reported by (circle one): Phone, Fax or Report Region _____	(DWM USE ONLY) Risk (H,I,L,U) _____ Received By _____	Suspected Contamination? (Y/N) _____ Confirmed GW Contamination? (Y/N) _____ Confirmed Soil Contamination? (Y/N) _____ Free Product? (Y/N) _____ If Yes, State Greatest Thickness _____	Facility ID Number <u>00024963</u> Date Leak Discovered <u>1-30-13</u> Comm/Non-Commercial? _____ Reg/Non-regulated? _____
--	---	--	---

INCIDENT DESCRIPTION

Incident Name: Grab & Go - Winston Rd

Address: 1009 Winston Road County: Davidson

City/Town: Lexington Zip Code: 27292

Regional Office (circle one): Ashville, Mooresville, Fayetteville, Raleigh, Washington, Wilmington, Winston-Salem

Latitude (decimal degrees): N 35.8394604 Longitude (decimal degrees): W 80.2533683

Briefly describe suspected or confirmed release: (including but not limited to: nature of release, date of release, amount of release, amount of free product present and recovery efforts, initial responses conducted, impacts to receptors)

Soil & groundwater contamination discovered during a Phase II Site Assessment conducted in January of 2013.

Obtained by:

- GPS
- Topographic map
- GIS Address matching
- Other
- Unknown

Describe location:

HOW RELEASE WAS DISCOVERED (ReleaseCode)

(Check one)

<input type="checkbox"/> Release Detection Equipment or Methods	<input type="checkbox"/> Visual/Odor	<input type="checkbox"/> Groundwater Contamination
<input type="checkbox"/> During UST Closure/Removal	<input type="checkbox"/> Water In Tank	<input type="checkbox"/> Surface Water Contamination
<input type="checkbox"/> Property Transfer	<input type="checkbox"/> Water Supply Well Contamination	<input checked="" type="checkbox"/> Other (specify) <u>Phase II ESA</u>

SOURCE OF CONTAMINATION

Source of Release (Source of Release) (Check one to indicate primary source)	Cause of Release (Cause) (Check one to indicate primary cause)	Type of Release (Type) (Check one)	Product Type Released (Ptype) (Check one to indicate primary product type released)	Location (Check one)
<input checked="" type="checkbox"/> Tank <input type="checkbox"/> Piping <input type="checkbox"/> Dispenser <input type="checkbox"/> Submersible Turbine Pump <input type="checkbox"/> Delivery Problem <input type="checkbox"/> Other <input type="checkbox"/> Unknown	<input type="checkbox"/> Spill <input type="checkbox"/> Overfill <input type="checkbox"/> Corrosion <input type="checkbox"/> Physical or Mechanical Damage <input type="checkbox"/> Install Problem <input type="checkbox"/> Other <input checked="" type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Petroleum <input type="checkbox"/> Non-Petroleum <input type="checkbox"/> Both	<input checked="" type="checkbox"/> Gasoline/Diesel/Kerosene <input type="checkbox"/> Heating Oil <input type="checkbox"/> Other Petroleum Products <input type="checkbox"/> Metals <input type="checkbox"/> Other Inorganics <input type="checkbox"/> Other Organics	<input checked="" type="checkbox"/> Facility <input type="checkbox"/> Residence <input type="checkbox"/> Other

Definitions presented on reverse

Ownership
 1. Municipal 2. Military 3. Unknown 4. Private 5. Federal 6. County 7. State

Operation Type
 1. Public Service 2. Agricultural 3. Residential 4. Education/Relig. 5. Industrial 6. Commercial 7. Mining

RECEIVED
 N.C. Dept. of ENR
 FEB 19 2013
 Winston-Salem
 Regional Office

IMPACT ON DRINKING WATER SUPPLIES

Water Supply Wells Affected? 1. Yes 2. No 3. Unknown

Number of Water Supply Wells Affected _____

Water Supply Wells Contaminated: (Include Users Names, Addresses and Phone Numbers. Attach additional sheet if necessary)

- 1.
- 2.
- 3.

UST SYSTEM OWNER

UST Owner/Company CSL Investments, Inc.

Point of Contact <u>Joseph Bello</u>		Address <u>869 S. Main St.</u>	
City <u>Burlington</u>	State <u>NC</u>	Zip Code <u>27215</u>	Telephone Number

UST SYSTEM OPERATOR

UST Operator/Company <u>Same as UST Owner</u>		Address	
City	State	Zip Code	Telephone Number

LANDOWNER AT LOCATION OF UST INCIDENT

Landowner <u>Grab & Go</u>		Address <u>1309 S. Main St.</u>	
City <u>Lexington</u>	State <u>NC</u>	Zip Code <u>27292</u>	Telephone Number <u>336-215-6655</u>

Draw Sketch of Area (showing two major road intersections) or Attach Map

See Attached Map

Person Reporting Incident <u>Brad Berner</u>	Company PEI PARAGON <small>Environmental Consultants, Inc.</small>	Telephone Number <u>336-669-6037</u>
Title <u>Project Mgr.</u>	Address <small>P.O. Box 137 Thomasville, NC 27361 (336) 669-6037</small>	Date <u>2-19-13</u>

UST Form 61 (10/07)

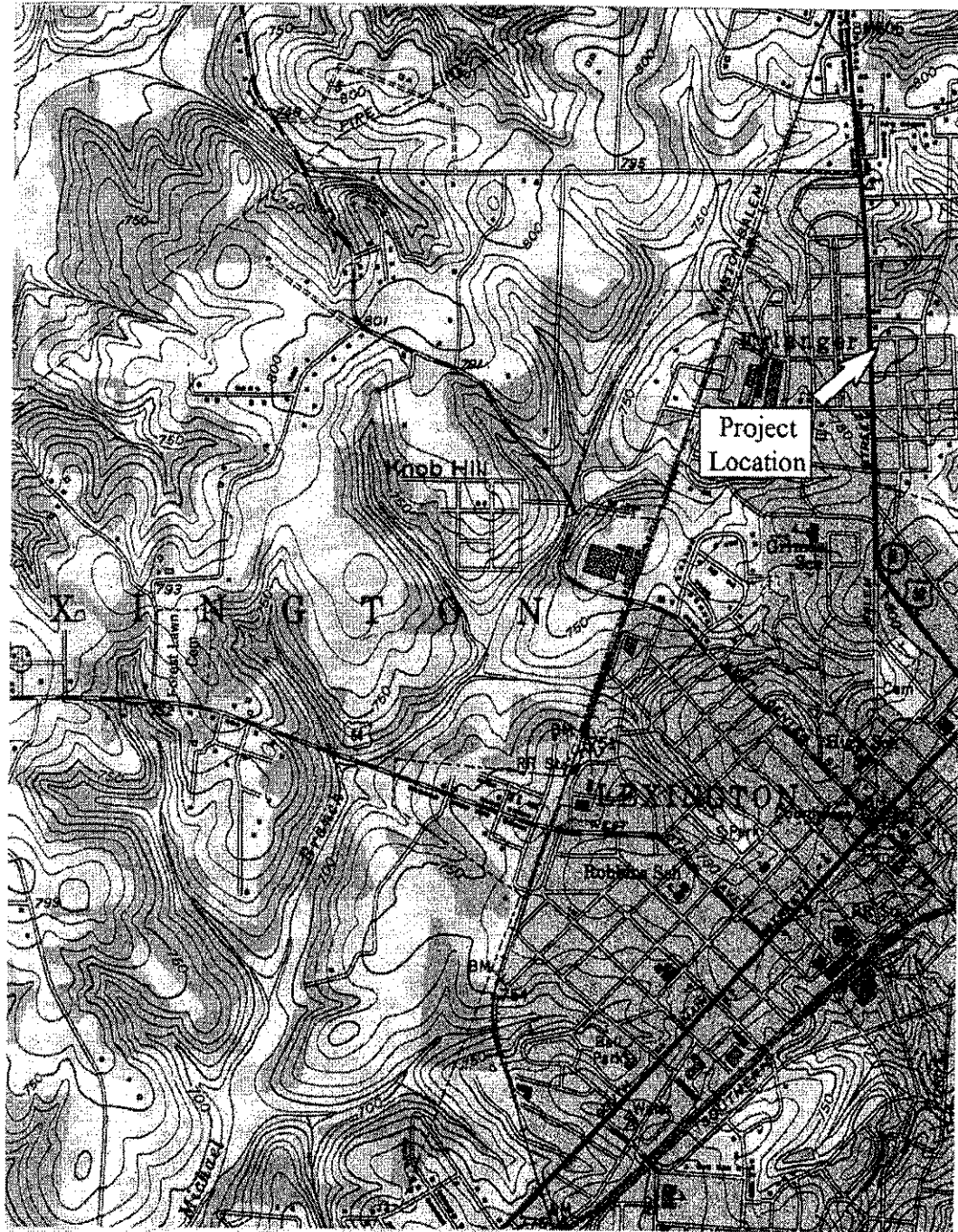
Page 2 of 2

Definitions of Sources

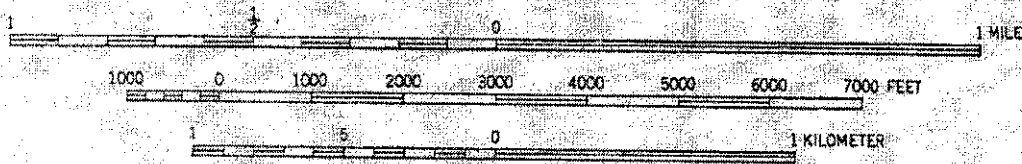
- Tank:** means the tank that stores the product and is part of the underground storage tank system
- Piping:** means the piping and connectors running from the tank or submersible turbine pump to the dispenser or other end-use equipment (Vent, vapor recovery, or fill lines are excluded.)
- Dispenser:** includes the dispenser and the equipment used to connect the dispenser to the piping (e.g., a release from a suction pump or from components located above the shear valve)
- Submersible Turbine Pump (STP) Area** includes the submersible turbine pump head (typically located in the tank sump), the line leak detector, and the piping that connects the submersible turbine pump to the tank
- Delivery Problem:** identifies releases that occurred during product delivery to the tank. (Typical causes associated with this source are spills and overfills.)
- Other:** serves as the option to use when the release source is known but does not fit into one of the preceding categories (e.g., for releases from vent lines, vapor recovery lines, and fill lines)
- Unknown:** identifies releases for which the source has not been determined

Definitions of Causes

- Spill:** use this cause when a spill occurs (e.g., when the delivery hose is disconnected from the tank fill pipe or when the nozzle is removed from the dispenser)
- Overfill:** use when an overfill occurs (e.g., overfills may occur from the fill pipe at the tank or when the nozzle fails to shut off at the dispenser)
- Physical or Mechanical Damage:** use for all types of physical or mechanical damage, except corrosion (e.g., puncture of tank or piping, loose fittings, broken components, and components that have changed dimension)
- Corrosion:** use when a metal tank, piping, or other component has a release due to corrosion (e.g., for steel, corrosion takes the form of rust)
- Installation Problem:** use when the problem is determined to have occurred specifically because the UST system was not installed properly
- Other:** use this option when the cause is known but does not fit into one of the preceding categories (e.g., putting regulated substances into monitoring wells)
- Unknown:** use when the cause has not been determined



SCALE 1:24,000



CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

FIGURE 1

PARAGON
ENVIRONMENTAL
CONSULTANTS, INC.
THOMASVILLE, NORTH CAROLINA



CLIENT:
GRAB & GO
GREENSBORO, NC

PROJECT:
PHASE II ESA
1009 WINSTON ROAD
LEXINGTON, NC

TITLE:
PROJECT LOCATION

SCALE: 1"=2000'
DATE: 1/31/13
DWN. BY: KBH
DWG. NO. L13-1305Z

LEGEND

SCALE



⊕ SOIL BORING LOCATION

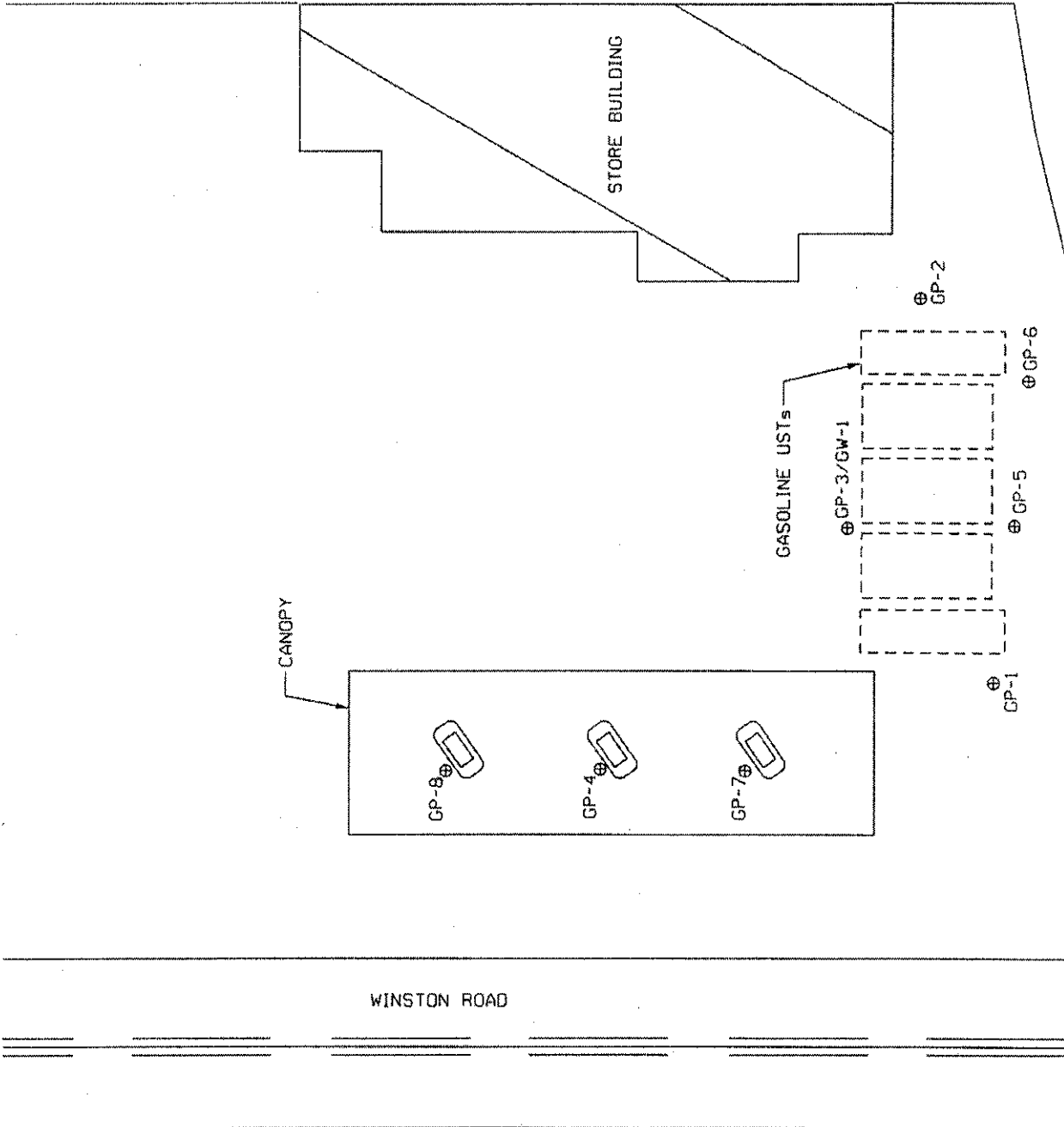


FIGURE 2

SCALE: 1"=20'
 DATE: 1/31/13
 DWN. BY: KBM
 DWG. NO. L13-1325

TITLE:
 SITE LAYOUT AND
 SAMPLE LOCATIONS

PROJECT:
 PHASE II ESA
 1009 WINSTON ROAD
 LEXINGTON, NC

CLIENT:
 CRAB & CO
 GREENSBORO, NC



PARAGON
 ENVIRONMENTAL
 CONSULTANTS, INC.
 THOMASVILLE, NORTH CAROLINA



Full-Service Analytical &
Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 1287
DoD ELAP Certification No. L2307

Case Narrative

01/22/2013

Paragon Environmental Consultants, Inc.
Brandon Moore
PO Box 157
Thomasville, NC 27361

Project: 1009 Winston Rd.

Lab Submittal Date: 01/14/2013
Prism Work Order: 3010313

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

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

Respectfully,

PRISM LABORATORIES, INC.

VP Laboratory Services

Reviewed By

Data Qualifiers Key Reference:

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
BRL Below Reporting Limit
MDL Method Detection Limit
RPD Relative Percent Difference
* Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



Sample Receipt Summary

01/22/2013

Prism Work Order: 3010313

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
GP-1	3010313-01	Solid	01/14/13	01/14/13
GP-2	3010313-02	Solid	01/14/13	01/14/13
GP-3	3010313-03	Solid	01/14/13	01/14/13
GP-4	3010313-04	Solid	01/14/13	01/14/13
GW-1	3010313-05	Water	01/14/13	01/14/13

Samples received in good condition at 3.7 degrees C unless otherwise noted.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



Summary of Detections

01/22/2013

Prism Work Order: 3010313

Prism ID	Client ID	Parameter	Method	Result	Units
3010313-03	GP-3	Gasoline Range Organics	*8015C	430	mg/kg dry
3010313-05	GW-1	Benzene	SM6200 B	62	ug/L
3010313-05	GW-1	Ethylbenzene	SM6200 B	64	ug/L
3010313-05	GW-1	Isopropyl Ether	SM6200 B	38 J	ug/L
3010313-05	GW-1	m,p-Xylenes	SM6200 B	190	ug/L
3010313-05	GW-1	Methyl-tert-Butyl Ether	SM6200 B	4300	ug/L
3010313-05	GW-1	Naphthalene	SM6200 B	17 J	ug/L
3010313-05	GW-1	o-Xylene	SM6200 B	110	ug/L
3010313-05	GW-1	Toluene	SM6200 B	55	ug/L
3010313-05	GW-1	Xylenes, total	SM6200 B	300	ug/L

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Paragon Environmental Consultants, Inc.
Attn: Brandon Moore
PO Box 157
Thomasville, NC 27361

Project: 1009 Winston Rd.

Sample Matrix: Solid

Client Sample ID: GP-1
Prism Sample ID: 3010313-01
Prism Work Order: 3010313
Time Collected: 01/14/13 14:55
Time Submitted: 01/14/13 17:30

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

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.1	1.1	50	*8015C	1/17/13 23:28	ANG	P3A0317
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			119 %		50-137	

General Chemistry Parameters

% Solids	80.4	% by Weight	0.100	0.100	1	*SM2540 G	1/15/13 15:45	JAB	P3A0270
----------	------	-------------	-------	-------	---	-----------	---------------	-----	---------

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Paragon Environmental Consultants, Inc.
 Attn: Brandon Moore
 PO Box 157
 Thomasville, NC 27361

Project: 1009 Winston Rd.

Sample Matrix: Solid

Client Sample ID: GP-2
 Prism Sample ID: 3010313-02
 Prism Work Order: 3010313
 Time Collected: 01/14/13 15:20
 Time Submitted: 01/14/13 17:30

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

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	6.0	1.3	50	*8015C	1/17/13 23:55	ANG	P3A0317
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			132 %		50-137	

General Chemistry Parameters

% Solids	71.4	% by Weight	0.100	0.100	1	*SM2540 G	1/15/13 16:45	JAB	P3A0270
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Paragon Environmental Consultants, Inc.
Attn: Brandon Moore
PO Box 157
Thomasville, NC 27361

Project: 1009 Winston Rd.

Sample Matrix: Solid

Client Sample ID: GP-3
Prism Sample ID: 3010313-03
Prism Work Order: 3010313
Time Collected: 01/14/13 15:45
Time Submitted: 01/14/13 17:30

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

Gasoline Range Organics by GC/FID

Gasoline Range Organics	430	mg/kg dry	62	14	500	*8015C	1/18/13 2:10	ANG	P3A0317
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			130 %		50-137	

General Chemistry Parameters

% Solids	74.2	% by Weight	0.100	0.100	1	*SM2540 G	1/15/13 15:45	JAB	P3A0270
----------	------	-------------	-------	-------	---	-----------	---------------	-----	---------

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Paragon Environmental Consultants, Inc.
Attn: Brandon Moore
PO Box 157
Thomasville, NC 27361

Project: 1009 Winston Rd.

Sample Matrix: Solid

Client Sample ID: GP-4
Prism Sample ID: 3010313-04
Prism Work Order: 3010313
Time Collected: 01/14/13 14:30
Time Submitted: 01/14/13 17:30

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

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.8	1.1	50	*8015C	1/18/13 1:16	ANG	P3A0317
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			109 %		50-137	

General Chemistry Parameters

% Solids	74.0	% by Weight	0.100	0.100	1	*SM2540 G	1/15/13 15:45	JAB	P3A0270
----------	------	-------------	-------	-------	---	-----------	---------------	-----	---------

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Paragon Environmental Consultants, Inc.
Attn: Brandon Moore
PO Box 157
Thomasville, NC 27361

Project: 1009 Winston Rd.

Sample Matrix: Water

Client Sample ID: GW-1
Prism Sample ID: 3010313-05
Prism Work Order: 3010313
Time Collected: 01/14/13 16:10
Time Submitted: 01/14/13 17:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic 602 Compounds by GC/MS									
Benzene	62	ug/L	5.0	0.54	10	SM6200 B	1/22/13 1:48	VHL	P3A0385
Ethylbenzene	64	ug/L	10	0.54	10	SM6200 B	1/22/13 1:48	VHL	P3A0385
Isopropyl Ether	38 J	ug/L	50	0.42	10	SM6200 B	1/22/13 1:48	VHL	P3A0385
m,p-Xylenes	190	ug/L	20	1.1	10	SM6200 B	1/22/13 1:48	VHL	P3A0385
Methyl-tert-Butyl Ether	4300	ug/L	250	2.8	50	SM6200 B	1/22/13 12:27	VHL	P3A0385
Naphthalene	17 J	ug/L	50	0.94	10	SM6200 B	1/22/13 1:48	VHL	P3A0385
o-Xylene	110	ug/L	10	0.64	10	SM6200 B	1/22/13 1:48	VHL	P3A0385
Toluene	55	ug/L	10	0.57	10	SM6200 B	1/22/13 1:48	VHL	P3A0385
Xylenes, total	300	ug/L	30	1.7	10	SM6200 B	1/22/13 1:48	VHL	P3A0385

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	102 %	70-130
Dibromofluoromethane	102 %	70-130
Toluene-d8	101 %	70-130

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Paragon Environmental Consultants, Inc. Project: 1009 Winston Rd.
Attn: Brandon Moore
PO Box 157
Thomasville, NC 27361

Prism Work Order: 3010313
Time Submitted: 1/14/2013 5:30:00PM

Volatile Organic 602 Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
Batch P3A0385 - SM6200 B										
Blank (P3A0385-BLK1) Prepared & Analyzed: 01/21/13										
Benzene	BRL	0.50	ug/L							
Ethylbenzene	BRL	1.0	ug/L							
Isopropyl Ether	BRL	5.0	ug/L							
m,p-Xylenes	BRL	2.0	ug/L							
Methyl-tert-Butyl Ether	BRL	5.0	ug/L							
Naphthalene	BRL	5.0	ug/L							
o-Xylene	BRL	1.0	ug/L							
Toluene	BRL	1.0	ug/L							
Xylenes, total	BRL	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	51.6		ug/L	50.00		103	70-130			
Surrogate: Dibromofluoromethane	51.8		ug/L	50.00		104	70-130			
Surrogate: Toluene-d8	50.8		ug/L	50.00		102	70-130			
LCS (P3A0385-BS1) Prepared & Analyzed: 01/21/13										
Benzene	19.4	0.50	ug/L	20.00		97	70-130			
Ethylbenzene	20.2	1.0	ug/L	20.00		101	70-130			
Isopropyl Ether	19.2	5.0	ug/L	20.00		96	70-130			
m,p-Xylenes	41.1	2.0	ug/L	40.00		103	70-130			
Methyl-tert-Butyl Ether	19.6	5.0	ug/L	20.00		98	70-130			
Naphthalene	20.7	5.0	ug/L	20.00		104	70-130			
o-Xylene	20.2	1.0	ug/L	20.00		101	70-130			
Toluene	19.4	1.0	ug/L	20.00		97	70-130			
Xylenes, total	61.3	3.0	ug/L	60.00		102	70-130			
Surrogate: 4-Bromofluorobenzene	49.8		ug/L	50.00		100	70-130			
Surrogate: Dibromofluoromethane	51.6		ug/L	50.00		103	70-130			
Surrogate: Toluene-d8	51.3		ug/L	50.00		103	70-130			
LCS Dup (P3A0385-BSD1) Prepared & Analyzed: 01/21/13										
Benzene	20.3	0.50	ug/L	20.00		101	70-130	4	200	
Ethylbenzene	21.1	1.0	ug/L	20.00		106	70-130	5	200	
Isopropyl Ether	19.9	5.0	ug/L	20.00		100	70-130	4	200	
m,p-Xylenes	43.2	2.0	ug/L	40.00		108	70-130	5	200	
Methyl-tert-Butyl Ether	20.0	5.0	ug/L	20.00		100	70-130	2	200	
Naphthalene	20.5	5.0	ug/L	20.00		102	70-130	1	200	
o-Xylene	21.2	1.0	ug/L	20.00		106	70-130	5	200	
Toluene	20.5	1.0	ug/L	20.00		102	70-130	5	200	
Xylenes, total	64.4	3.0	ug/L	60.00		107	70-130	5	200	
Surrogate: 4-Bromofluorobenzene	50.8		ug/L	50.00		102	70-130			
Surrogate: Dibromofluoromethane	50.3		ug/L	50.00		101	70-130			
Surrogate: Toluene-d8	50.7		ug/L	50.00		101	70-130			

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Paragon Environmental Consultants, Inc. Project: 1009 Winston Rd.
Attn: Brandon Moore
PO Box 157
Thomasville, NC 27361

Prism Work Order: 3010313
Time Submitted: 1/14/2013 5:30:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3A0317 - 5035										
Blank (P3A0317-BLK1)										
Prepared & Analyzed: 01/17/13										
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	4.70		mg/kg wet	5.000		94	50-137			
LCS (P3A0317-BS1)										
Prepared & Analyzed: 01/17/13										
Gasoline Range Organics	58.3	5.0	mg/kg wet	50.00		117	41-138			
Surrogate: a,a,a-Trifluorotoluene	5.15		mg/kg wet	5.000		103	50-137			
LCS Dup (P3A0317-BSD1)										
Prepared & Analyzed: 01/17/13										
Gasoline Range Organics	52.8	5.0	mg/kg wet	50.00		106	41-138	10	200	
Surrogate: a,a,a-Trifluorotoluene	5.30		mg/kg wet	5.000		106	50-137			

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Paragon Environmental Consultants, Inc. Project: 1009 Winston Rd.
Attn: Brandon Moore
PO Box 157
Thomasville, NC 27361

Prism Work Order: 3010313
Time Submitted: 1/14/2013 5:30:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3A0270 - NO PREP										
Blank (P3A0270-BLK1) Prepared & Analyzed: 01/15/13										
% Solids	100	0.100	% by Weight							
Duplicate (P3A0270-DUP1) Source: 3010313-03 Prepared & Analyzed: 01/15/13										
% Solids	74.5	0.100	% by Weight		74.2			0.4	20	

Sample Extraction Data

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
3010313-01	P3A0317	6.15 g	5 mL	01/17/13 15:33
3010313-02	P3A0317	5.86 g	5 mL	01/17/13 15:33
3010313-03	P3A0317	5.46 g	5 mL	01/17/13 15:33
3010313-04	P3A0317	7.01 g	5 mL	01/17/13 15:33

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
3010313-05	P3A0385	10 mL	10 mL	01/21/13 10:26
3010313-05	P3A0385	10 mL	10 mL	01/21/13 10:26

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Full-Service Analytical & Environmental Solutions

CHAIN OF CUSTODY RECORD

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

Client Company Name: **PC PARAGON**
Report To/Contact Name: **Environmental Consultant**
Reporting Address: **P.O. Box 157
Thomasville, NC 27475
(336) 669-6837**

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

Project Name: **P-1305**
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)

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

Invoice To: **Same**
Address: **Same**

LAB USE ONLY			
	YES	NO	N/A
Samples INTACT upon arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received ON WET ICE? Temp 3.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER PRESERVATIVES indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received WITHIN HOLDING TIMES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CUSTODY SEALS INTACT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOLATILES rec'd W/OUT HEADSPACE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROPER CONTAINERS used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Page 12 of 12

Phone: _____ Fax (Yes) (No): _____

Email (Yes) (No) Email Address: **paragonenv@northstate.net**

EDD Type: PDF _____ Excel _____ Other _____

Site Location Name: **1009 Winston Rd**

Site Location Physical Address: **1009 Winston Rd
Lexington, NC**

Purchase Order No./Billing Reference _____

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

"Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved

Samples received after 15:00 will be processed next business day.

Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC _____ USACE _____ FL _____ NC

SC _____ OTHER N/A _____

Water Chlorinated: YES _____ NO

Sample Iced Upon Collection: YES NO _____

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED				REMARKS	PRISM LAB ID NO.	
				*TYPE SEE BELOW	NO.	SIZE								
Geoprobe #1 (GP-1)	1/14/13	14:55	Soil		3		X							41
Geoprobe #2 (GP-2)		15:20	Soil		3		X							42
Geoprobe #3 (GP-3)		15:45	Soil		3		X							43
Geoprobe #4 (GP-4)		14:30	Soil		3		X							44
Groundwater #1 (GW-1)		16:10	Water		3			X						45

GPO
ENVIRONMENTAL
882-8133
FAX: 704-525-0409

Sampler's Signature: **Jim Wallin** Sampled By (Print Name): **Ben Robinson** Affiliation: _____

PRESS DOWN FIRMLY - 3 COPIES

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

Relinquished By: (Signature) Jim Wallin	Received By: (Signature) _____	Date	Military/Hours	Additional Comments:
Relinquished By: (Signature) _____	Received By: (Signature) _____	Date		
Relinquished By: (Signature) _____	Received For Prism Laboratories By: _____	Date		

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

Fed Ex UPS Hand-delivered Prism Field Service Other _____

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

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

PRISM USE ONLY

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

3414313

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

LIMITED SITE ASSESSMENT

**GRAB & GO
1009 WINSTON ROAD
LEXINGTON, NC
GROUNDWATER INCIDENT: 44108
FACILITY ID: 00-0-0000024863**

FEBRUARY 4, 2016

UST OWNER/OPERATOR:

DSF of NC, Inc.
4401 United Street
Greensboro, NC 27407
Phone Number: (336) 285-7474

PROPERTY OWNER:

Same as UST owner

CONSULTANT:

Paragon Environmental Consultants, Inc.
P. O. Box 157
Thomasville, NC 27361-0157
Phone Number: (336) 669-6037

RELEASE INFORMATION:

Date Discovered: 1/30/13
Estimated Quantity of Release: Unknown Cause of Release: Unknown
Source of Release: Gasoline USTs
Size and Contents: Three (3) 6,000 Gallon Gasoline USTs
and Two (2) 2,000 Gallon Gasoline USTs
Latitude: N 35.8394604° Longitude: W 80.2533683°

The Limited Site Assessment for this site has been prepared by Paragon Environmental Consultants, Inc. under the direct supervision of a licensed geologist. All activities performed on this project were conducted under my direct supervision:



Brandon Moore, L.G.
North Carolina License #1666



February 4, 2016

Shehzad Quamar
DSF of NC, Inc.
4401 United Street
Greensboro, NC 27407

Reference: Limited Site Assessment
Grab & Go-Winston Road
1009 Winston Road
Lexington, North Carolina
Groundwater Incident # 44108
Facility ID 00-0-0000024863

Dear Mr. Quamar:

In accordance with the requirements of a correspondence from the North Carolina Department of Environmental Quality (NCDEQ) dated December 16, 2015, contained herein is a Limited Site Assessment for the release which occurred at the above referenced facility. These activities have been conducted following the release of petroleum which occurred in the vicinity of the underground storage tank (UST) system formerly located at this site. All activities were conducted in accordance with NCDENR guidelines and the requirements of 15A NCAC 2L .0115.

Mr. Quamar, if you have questions regarding this report please contact our office.

Sincerely,

A handwritten signature in black ink that reads 'Brandon Moore'.

Brandon Moore, L.G.
Paragon Environmental Consultants, Inc.

R16-1305A

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Appendix B:	Soil Analytical Results
Appendix C:	Well Construction Record
Appendix D:	Standard Operating Procedures
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LIMITED SITE ASSESSMENT REPORT

**Grab & Go
1009 Winston Road
Lexington, North Carolina**

1.0 - SITE HISTORY AND SOURCE CHARACTERIZATION

DSF of NC, Inc. owns and operates a facility at 1009 Winston Road in Lexington, NC which is referred to as the Grab & Go. This property contains one permanent structure which is used as a convenience store. Figure 1 illustrates the location of this facility on the Lexington West Quadrangle U.S.G.S. Topographic Map. The site contains three (3) 6,000 gallon gasoline USTs and two (2) 2,000 gallon gasoline USTs which are used for the retail sale of petroleum. Figure 2 illustrates the site layout and the locations of the USTs. A release of petroleum was detected during a Phase II Environmental Site Assessment (ESA) which was conducted for property transfer. Information regarding the ownership of the regulated USTs which are located at this facility is contained in Table 1. The Phase II ESA Report dated January 30, 2013 for this facility was submitted to the NCDENR in February of 2013.

2.0 - RISK CHARACTERIZATION AND LAND USE FORM

Part I Groundwater/Surface water/Vapor impact High Risk

1. Has discharge or release contaminated any water supply wells including any used for non-drinking purposes?

NO
2. Is a water supply well used for drinking water located within 1,000 feet of the source area the discharge or release?

NO
3. Is a water supply well used for any purpose (e.g., irrigation, washing cars, industrial cooling water, filling swimming pools) located within 250 feet of the source area of the discharge or release?

NO
4. Does groundwater within 500 feet of the source area of the discharge or release have the potential for future use in that there is no other source of water supply other than the groundwater?

NO

5. Do vapors from the discharge or release pose a threat of explosion because of accumulation of the vapors in a confined space or pose any other serious threat to public health, public safety or the environment?

NO

6. Are there any factors that would cause the discharge or release to pose an imminent danger to public health, public safety or the environment?

NONE KNOWN

Intermediate Risk

7. Is a surface body located within 500 feet of the source area of the discharge or release?

NO

If yes, does the maximum groundwater contaminant concentration exceed the surface water quality standards and criteria found in 15A NCAC 2B .0200 by a factor of 10?

N/A

8. Is the source area of the discharge or release located within a designated wellhead protection area as defined in 42 USC 300h-7(e)?

NO

9. Is the discharge or release located in the Coastal Plain physiographic region as designated on a map entitled "Geology of North Carolina" published by the Department in 1985?

NO

If yes, is the source area of the discharge or release located in an area in which there is recharge to an unconfined or semi-confined deeper aquifer that is being used or may be used as a source of drinking water?

N/A

10. Do the levels of groundwater contamination for any contaminant exceed the gross contamination levels established (see Table 7 in guidelines) by the department?

NO

Part II-Land Use

Property containing Source Area of Discharge or Release

The questions below pertain to the property containing the source area of the release.

1. Does the property contain one or more primary or secondary residences (permanent or temporary)?

NO

2. Does the property contain a school, daycare center, hospital, playground, park, recreation area, church, nursing home, or other place of public assembly?

NO

3. Does the property contain a commercial (e.g., retail, warehouse, office/business space, etc.) or industrial (e.g., manufacturing, utilities, industrial research and development, chemical/petroleum bulk storage, etc.) enterprise, an inactive commercial or industrial enterprise, or is the land undeveloped?

YES, THE BUILDING CONTAINS A CONVENIENCE STORE

4. Do children visit the property?

YES

Explain.

CHILDREN VISIT THE STORE

5. Is access to the property reliably restricted consistent with its use?

YES

6. Do pavement, buildings, or other structures cap the contaminated soil?

YES

If yes, what mechanisms are in place or can be put into place to insure that the contaminated soil will remain capped in the foreseeable future?

THE PAVED PARKING SURFACE WILL REMAIN IN PLACE

7. What is the zoning status of the property?

COMMERCIAL

8. Is the use of the property likely to change in the next 20 years?

NO

Property Surrounding Source Area of Discharge or Release.

9. What is the distance from the source area of the release to the nearest primary or secondary residence (permanent or temporary)

APPROXIMATELY 165 FEET TO THE WEST OF THE SOURCE AREA

10. What is the distance from the source area of the release to the nearest school, daycare center, hospital, playground, park, recreation area, church, nursing home, or other place of public assembly?

ABIDING FAITH TABERNACLE CHURCH IS LOCATED APPROXIMATELY 570 FEET TO THE NORTHEAST OF THE SITE

11. What is the zoning status of properties in the surrounding areas?

COMMERCIAL / RESIDENTIAL

12. Briefly characterize the use and activities of the land in the surrounding area.

COMMERCIAL / RESIDENTIAL

3.0 - RECEPTOR INFORMATION

3.1 Water Supply Wells

A supply well survey has been conducted within a radius of 1,500 feet from the release area. During this reconnaissance no water supply wells in use for any purpose were found to be located within this radius.

3.2 Public Water Supplies

Public water supplies are available from City of Lexington to all of the surrounding properties within a radius of 1,500 feet from 1009 Winston Road.

3.3 Surface Water

The partial U.S.G.S. map included as Figure 1 indicates that surface waters in the vicinity of the release area generally drain towards an unnamed stream which is located approximately 1,250 feet to the east of the release area. This unnamed stream flows into Leonard Creek situated approximately 10,000 feet to the east. Leonard Creek is a tributary of Abbotts Creek which is within the Yadkin / Pee Dee River Drainage Basin.

3.4 Wellhead Protection Areas

No wellhead protection areas are known to exist within the area of this release.

3.5 Deep Aquifers in the Coastal Plain Physiographic Region

This release is not located in the coastal plain.

3.6 Subsurface Structures

Subsurface utility lines associated with the UST system are located in the vicinity of the petroleum affected area at this facility. The building located on the impacted property does not have a basement; however, other subsurface utilities are present in the form of water and sewer lines. Figure 3 illustrates the locations of all known subsurface utilities.

3.7 Land Use

The possibility of human exposure to soil contamination at the Grab & Go is minimal. The marginally impacted soil which remains in place is situated more than 12 feet below the land surface and is covered with the tank system and capped by asphalt and concrete pavement. The facility lies within a primarily commercial area.

3.8 Property Owners and Occupants

Figure 4 illustrates the surrounding properties, and Table 2 contains information regarding the adjacent property owners. This information was obtained from the Davidson County Tax Department's records.

4.0 - SITE GEOLOGY AND HYDROGEOLOGY

4.1 Site Geology

The site is situated in the Piedmont Region of the North Carolina Slate Belt. According to the Geological Map of North Carolina local bedrock geology of the region consists of Late Proterozoic to Cambrian aged metamorphosed granitic bedrock. Competent bedrock was not encountered to a depth of 30 feet below land surface which was the maximum depth explored during the subsurface investigation.

4.2 Soils Investigation

The soils at the project site consist of clay with varying amounts of silt. A soil boring log for the boring advanced for monitor well installation at the site is contained as Appendix A. No contaminated soils have been removed from this subject site since the USTs remain in place above the impacted soil.

One “Risk-Based” sample was collected at the Grab & Go for laboratory analyses from the monitor well boring at a depth of 15 feet below land surface. This sample was submitted to Meritech, Inc. for analyses by EPA Method 8260 and by MADEP methods for Volatile Petroleum Hydrocarbons (VPH). The soil sample, labeled as MW1-15, was below the Residential Standards for all Method 8260 compounds and all VPH carbon fractions. Table 3 summarizes the analytical results of the “Risk-Based” soil sample, and Figure 5 illustrates the location of the soil sample collected at 1009 Winston Road. Appendix B contains a copy of the laboratory analytical report and the chain-of-custody record for the soil sample.

5.0 - SAMPLING RESULTS

5.1 Monitor Well Installation

One North Carolina Type II groundwater monitoring well has been installed at the site. Figure 6 illustrates the site layout and the location of the monitor well which was labeled as MW-1. The monitoring well was constructed of 2-inch Schedule 40 PVC pipe with 20 feet of 0.010 inch slotted screen. Based on the assumption that the contaminants being addressed were primarily hydrocarbon constituents with specific gravities of less than 1.0, the groundwater monitoring well was installed so that the screened interval intersected the shallow groundwater table at the time of installation. Table 4 summarizes the monitoring well information and groundwater elevations as measured on January 20, 2016. A copy of the well construction record for the monitor well installed at this facility is included as Appendix C.

5.2 Groundwater Analyses

Following installation the monitoring well was developed and sampled in accordance with Paragon’s Standard Operating Procedures which are contained as Appendix D. The groundwater samples were submitted to Meritech, Inc. for laboratory analysis according to EPA Method 6200B plus MTBE and IPE. The groundwater sample was also analyzed for Lead and by MADEP methods for VPH.

According to the analytical results for monitor well MW-1, three Method 6200B compounds were reported at concentrations which exceed the 2L Standards. Benzene was indicated at 90.3 micrograms per liter (ug/L) as compared to the 2L Standard of 1 ug/L. Naphthalene, which has a 2L Standard of 6 ug/L, was detected at 36.2 ug/L. MTBE was listed at 4,570 ug/L which is above the 2L Standard of 20 ug/L. Two carbon fraction classes were shown at levels above the 2L Standards in MW-1. C5-C8 Aliphatics was reported at 3,840 ug/L, and C9-C19 Aliphatics was detected at 2,680 ug/L. These two fraction classes have 2L Standards of 400 ug/L and 700 ug/L, respectively.

None of the Method 6200B compounds detected at the Grab & Go were at concentrations that exceeded the Gross Contaminant Levels (GCLs), and no GCLs have been established for the carbon fraction classes. Table 5 summarizes the groundwater analytical results, and Appendix E contains a copy of the laboratory analytical report and the chain-of-custody record for the groundwater sample.

6.0 - CONCLUSIONS AND RECOMMENDATIONS

6.1 General Summary

Limited Site Assessment activities at the Grab & Go have been completed. From a review of all information gathered during this project, Paragon Environmental Consultants, Inc. makes the following conclusions:

- o A petroleum release of unknown quantity has occurred at this site. Soil concentrations in the source area are below the Residential Standards.
- o One groundwater monitoring well was constructed at the site during this investigation. Free product was not observed in monitor well MW-1.
- o The analytical results for the groundwater sample from the monitor well indicated Benzene, Naphthalene, MTBE, and two VPH carbon fraction classes above the 2L Standards. No Method 6200B compounds exceed the GCLs at this subject site.

6.2 Recommendations

Based upon a review of all information gathered during this project, Paragon makes the following recommendations:

- o Since all soil concentrations are below the applicable standards and the groundwater levels are below the GCLs, a notice of No Further Action should be issued for the subject site. Public notifications and deed recordation will be required due to groundwater contamination above the 2L Standards.
- o A copy of this report should be forwarded to the following address:

Winston-Salem Regional Office – UST Section
450 W. Hanes Mill Road – Suite 300
Winston-Salem, NC 27105

6.3 Limitations

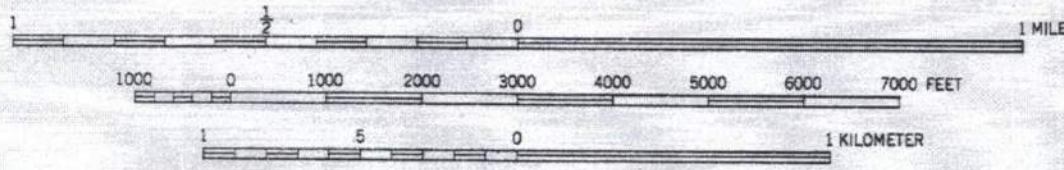
This report has been prepared for the exclusive use of DSF of NC, Inc. for the specific application to the referenced site located in Davidson County, North Carolina. The evaluation was conducted based on the scope of work and level of effort desired by the client and with resources adequate only for the scope of work. Our findings have been developed in accordance with generally accepted standards for Limited Site Assessments in the State of North Carolina, available information and our professional judgment. No other warranty is expressed or implied.

The data presented in this report are indicative of conditions at the precise locations sampled and the time the sample was collected. Additionally, the data obtained from the samples would be interpreted as meaningful with respect to the parameters in the laboratory reports. No additional information can be logically inferred from this data.

FIGURES



SCALE 1:24000



CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

SCALE: 1"=2000'
DATE: 2/4/16
DWN. BY: KBM
DWG. NO. L13-1305Z

TITLE:
PROJECT LOCATION

PROJECT:
LSA
1009 WINSTON ROAD
LEXINGTON, NC

CLIENT:
GRAB & GO
GREENSBORO, NC



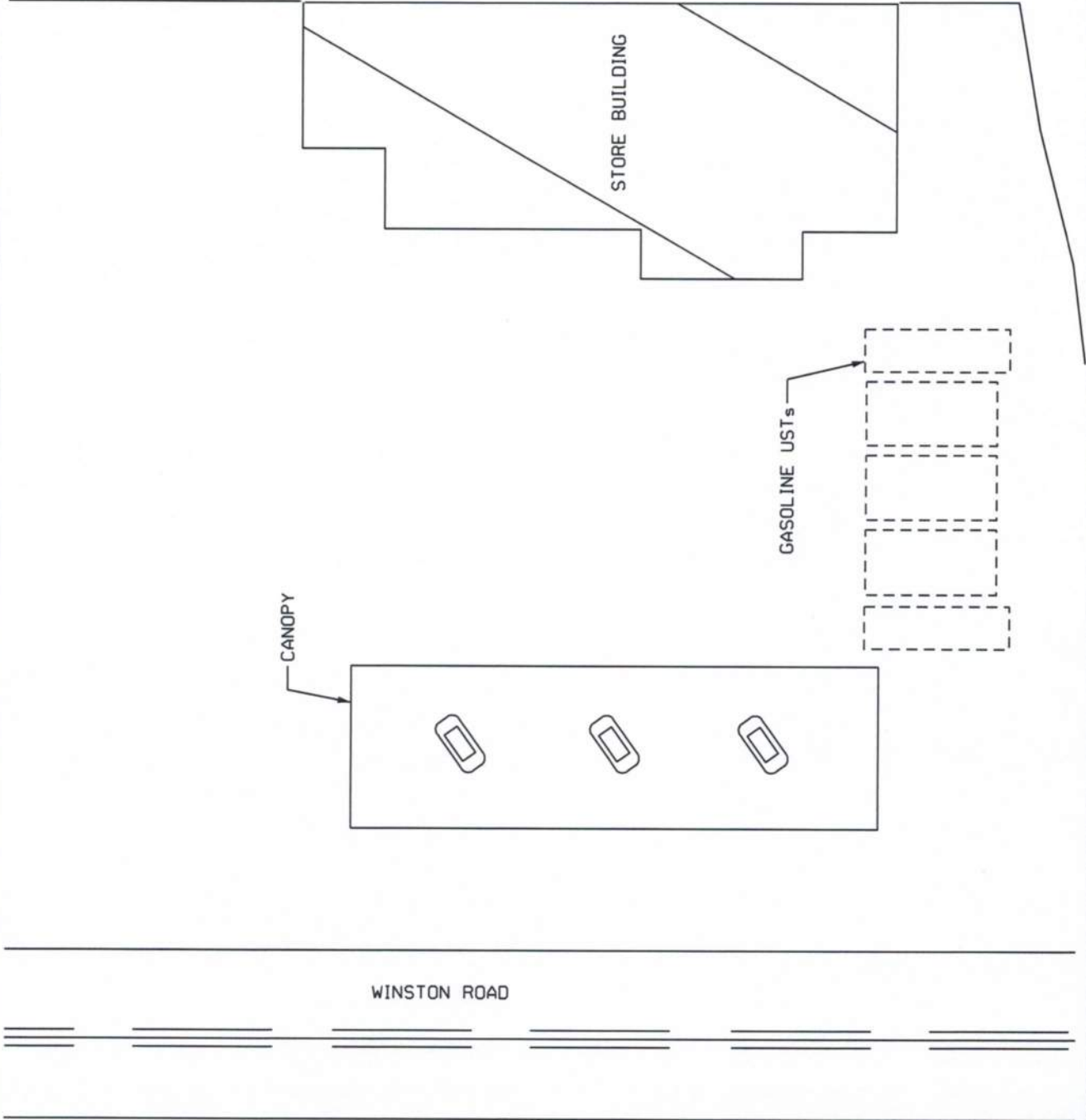
PARAGON
ENVIRONMENTAL
CONSULTANTS, INC.
THOMASVILLE, NORTH CAROLINA

FIGURE 1

LEGEND

SCALE

0' 10' 20'



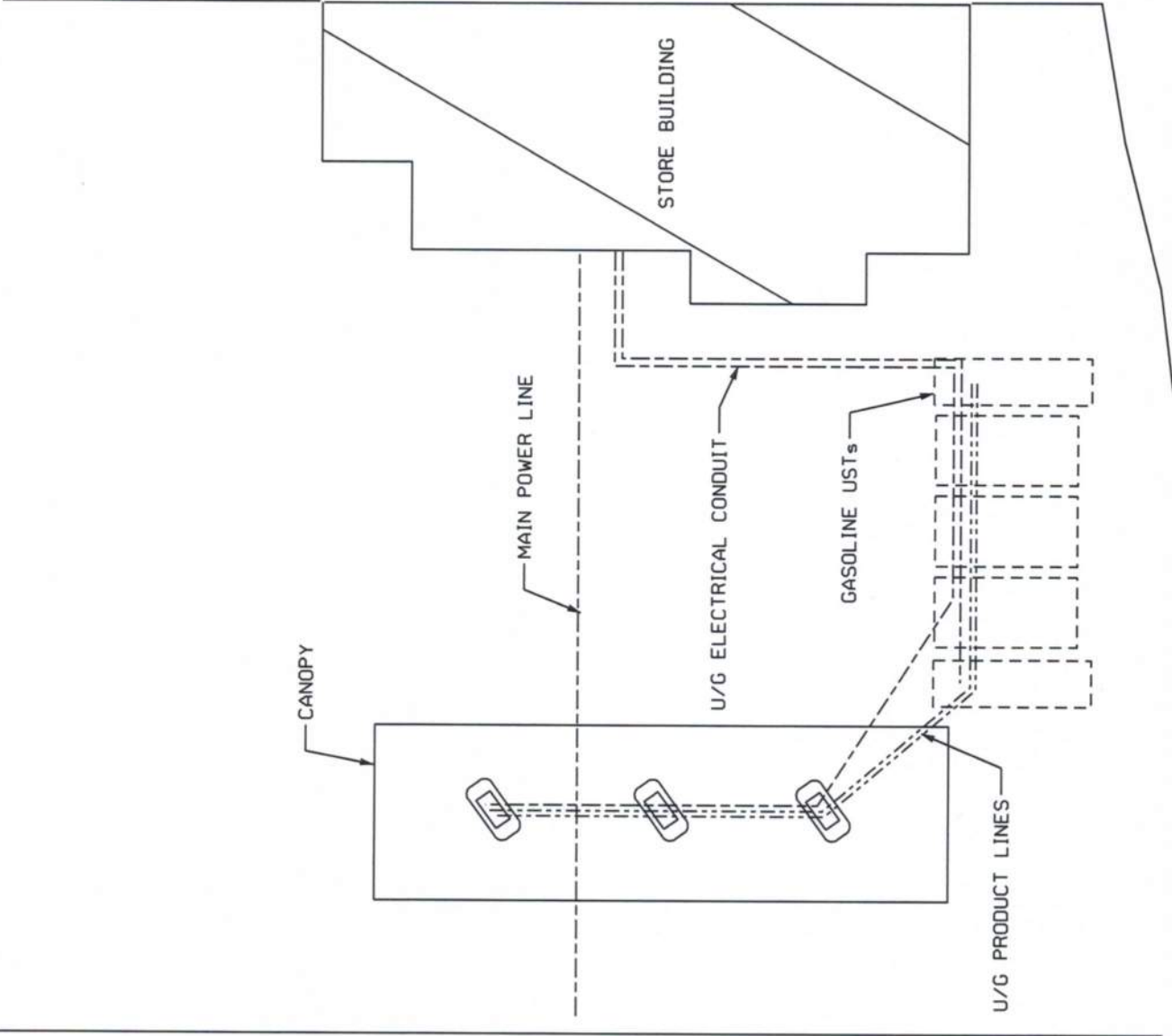
SCALE: 1"=20'	TITLE: SITE LAYOUT AND UST LOCATIONS	PROJECT: LSA 1009 WINSTON ROAD LEXINGTON, NC	CLIENT: GRAB & GO GREENSBORO, NC	PARAGON ENVIRONMENTAL CONSULTANTS, INC. THOMASVILLE, NORTH CAROLINA
DATE: 2/2/16				
DWN. BY: KBM				
DWG. NO. L13-1305				

FIGURE 2

LEGEND

SCALE

0' 10' 20'



PEI PARAGON ENVIRONMENTAL CONSULTANTS, INC.
THOMASVILLE, NORTH CAROLINA

CLIENT: GRAB & GO GREENSBORO, NC

PROJECT: LSA 1009 WINSTON ROAD LEXINGTON, NC

TITLE: SUBSURFACE UTILITIES MAP

SCALE: 1"=20'
DATE: 2/2/16
DWN. BY: KBM
DWG. NO. L13-1305C

FIGURE 3



FIGURE 4

SCALE: 1"=200'
 DATE: 2/4/16
 DWN. BY: KBM
 DWG. NO. L13-1305Y

TITLE:
 ADJACENT PROPERTIES MAP

PROJECT:
 LSA
 1009 WINSTON ROAD
 LEXINGTON, NC

CLIENT:
 GRAB & GO
 GREENSBORO, NC



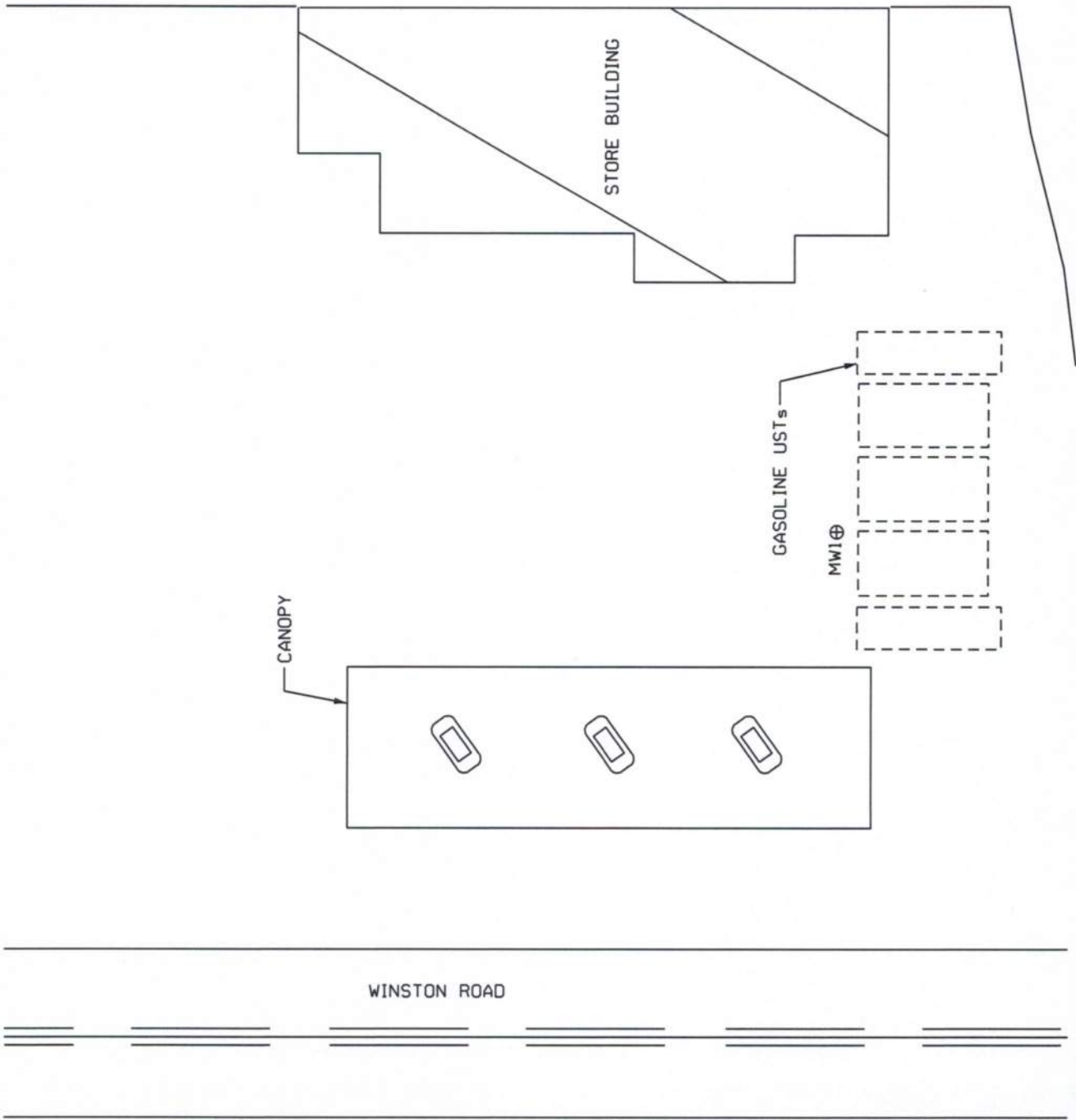
PARAGON
 ENVIRONMENTAL
 CONSULTANTS, INC.
 THOMASVILLE, NORTH CAROLINA

LEGEND

SCALE

 0' 10' 20'

⊕ SOIL BORING LOCATION



SCALE: 1"=20'	TITLE: SITE LAYOUT AND SOIL SAMPLE LOCATION	PROJECT: LSA 1009 WINSTON ROAD LEXINGTON, NC	CLIENT: GRAB & GO GREENSBORO, NC	PARAGON ENVIRONMENTAL CONSULTANTS, INC. THOMASVILLE, NORTH CAROLINA
DATE: 2/3/16				
DWN. BY: KBM				
DWG. NO. L13-1305A				

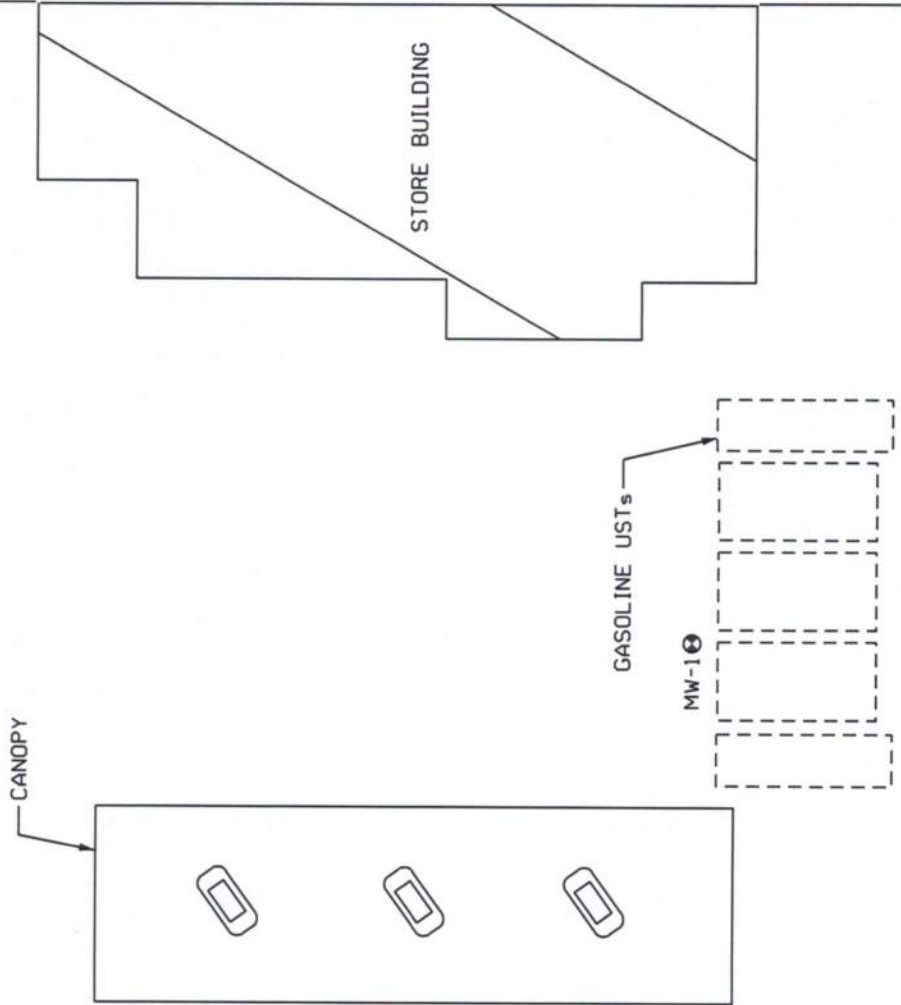
FIGURE 5

LEGEND

SCALE



MONITOR WELL LOCATION



PARAGON ENVIRONMENTAL CONSULTANTS, INC.
THOMASVILLE, NORTH CAROLINA

CLIENT:
GRAB & GO
GREENSBORO, NC

PROJECT:
LSA
1009 WINSTON ROAD
LEXINGTON, NC

TITLE:
SITE LAYOUT AND
MONITOR WELL LOCATION

SCALE: 1"=20'
DATE: 2/3/16
DWN. BY: KBM
DWG. NO. L13-1305B

FIGURE 6

TABLES

TABLE 1: SITE HISTORY

**GRAB & GO – WINSTON ROAD
1009 WINSTON ROAD
LEXINGTON, NORTH CAROLINA**

Property Ownership:

DSF of NC, Inc.
4401 United Street
Greensboro, NC 27407

UST Ownership:

Same as property owner

UST Information:

Tank No	Installation Date	Size (Gal)	Closure Date	UST Status	Tank Contents
T1	Unknown	6,000	N/A	Active	Gasoline
T2	Unknown	6,000	N/A	Active	Gasoline
T3	Unknown	6,000	N/A	Active	Gasoline
T4	Unknown	2,000	N/A	Active	Gasoline
T5	Unknown	2,000	N/A	Active	Gasoline

TABLE 2: ADJACENT PROPERTY OWNERS

GRAB & GO (WINSTON ROAD) 1009 WINSTON ROAD LEXINGTON, NORTH CAROLINA

<u>SITE ID</u>	<u>OWNER INFO</u>
1	DSF of NC, Inc. 4401 United Street Greensboro, NC 27407 (Project Location)
2	Cook Out-Lexington, Inc. 150 Laura Lane, Suite 300 Thomasville, NC 27360 (1001 Old US Highway 52)
3	Kenneth and Nesha Bacchus 1004 Virginia Drive Lexington, NC 27292-1732
4	David Hunt 801 Winston Road Lexington, NC 27292
5	Red FDS, LLC 711 Central Avenue Charlotte, NC 28204 (1109 Winston Road)
6	David and Ronda Wilson 216 Stratford Road Lexington, 27292-9726
7	Bobby Callicutt 700 W. Fifth Avenue Lexington, NC 27292-4923 (292 Winston Road)
8	William Q. Haynes 293 Winston Road Lexington, NC 27292
9	BV 156, LLC 1414 Yanceyville St. Suite-300 Greensboro, NC 27405 (918 Winston Road)

TABLE 3
Summary of Soil Laboratory Analytical Results
 Grab & Go - Winston Road
 Lexington, North Carolina

Constituent	MW1-15'	Residential Standards
Date	1/19/2016	
Method 8260 (mg/kg)		
n-Butylbenzene	BDL	626
sec-Butylbenzene	BDL	626
Bromodichloromethane	0.005	NSE
Chloroform	0.05	20
Ethylbenzene	BDL	1,560
Naphthalene	BDL	313
1,2,4-Trimethylbenzene	BDL	782
1,3,5-Trimethylbenzene	BDL	782
Toluene	BDL	1,200
Xylenes (total)	BDL	3,129
MTBE	0.02	350
IPE	BDL	156
Aliphatic Fraction Classes (mg/kg)		
C5-C8 Volatile Aliphatics	BDL	939
C9-C12 Volatile Aliphatics	BDL	NSE
C9-C18 Extractable Aliphatics	N/A	NSE
C9-C18 Aliphatics (total)	BDL	1,500
C19-C36 Extractable Aliphatics	N/A	31,000
Aromatic Fraction Classes (mg/kg)		
C9-C10 Volatile Aromatics	BDL	NSE
C11-C22 Extractable Aromatics	N/A	NSE
C9-C22 Aromatics (total)	BDL	469

BDL= Below Detection Limits

NSE = No Standard Established

X16-1305R

TABLE 4
Monitoring Well Information and Groundwater Elevations

Grab-N-Go
 Lexington, North Carolina

Well Number	Top of Casing Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Depth to Water	Groundwater Elevation
MW-1	100.00	90.00	70.00	18.02	81.98

Note: All measurements taken in feet and based on an arbitrary benchmark of 100.00 feet; groundwater levels measured on January 20, 2016.

TABLE 5
Summary of Groundwater Analytical Results
Grab-N-Go (Winston Road)
Lexington, North Carolina

Constituent	MW-1	2L Standard	GCL
Date	1/20/2016		
Methods 6200B / 602 (ug/L)			
Benzene	90.3	1	5,000
Toluene	BDL	600	260,000
Ethylbenzene	14.3	600	84,500
Xylenes (total)	130.7	500	85,500
BTEX (total)	235.3	NSE	NSE
Acetone	BDL	6,000	6,000,000
1,2-Dichloroethane	BDL	0.40	400
n-Butylbenzene	5.75	70	6,900
sec-Butylbenzene	BDL	70	8,500
2-Hexanone	BDL	40	40,000
Isopropylbenzene	11.2	70	25,000
p-Isopropyltoluene	BDL	25	11,700
Methyl Isobutyl Ketone (MIBK)	BDL	100	100,000
Naphthalene	36.2	6	6,000
n-Propylbenzene	21	70	30,000
1,2,4-Trimethylbenzene	135	400	28,500
1,3,5 Trimethylbenzene	123	400	25,000
MTBE	4,570	20	20,000
IPE	25	70	70,000
Method 3030C (ug/L)			
Lead	BDL	15	15,000
Aliphatic Fraction Classes (ug/L)			
C5-C8 Volatile Aliphatics	3,840	400	NSE
C9-C12 Volatile Aliphatics	2,680	NSE	NSE
C9-C18 Extractable Aliphatics	N/A	NSE	NSE
C9-C18 Aliphatics (total)	2,680	700	NSE
C19-C36 Extractable Aliphatics	N/A	10,000	NSE
Aromatic Fraction Classes (ug/L)			
C9-C10 Volatile Aromatics	BDL	NSE	NSE
C11-C22 Extractable Aromatics	N/A	NSE	NSE
C9-C22 Aromatics (total)	BDL	200	NSE

N/A = Not Analyzed

BDL = Below Detection Limits

NSE = No Standard Established

X16-1305A

APPENDIX A

SOIL BORING LOG

SOIL BORING LOG

Paragon Environmental Consultants, Inc.

Job Name: Grab-N-Go
Address: 1009 Winston Road Lexington, NC
Job No: P-1305
Start Date: 1/19/2016
Driller: Innovative Environmental Technologies, Inc.
Boring No.: MW-1
Comments: _____

Sample Number	Depth (ft.)	Soil Description (color, soil type, moisture)	Blow Counts	OVA (ppm)
MW-1	5	Light tan, CLAY with silt, damp		N/A
	10	Tan, CLAY with silt, damp		N/A
	20	Light orange, CLAY with silt, damp		N/A
	25	same as 20'		N/A
	30	Orange, CLAY with silt, damp		N/A
		Soil Boring Terminated at 30'		
P-1305				

APPENDIX B

SOIL ANALYTICAL RESULTS



MERITECH, INC.

Environmental Laboratories

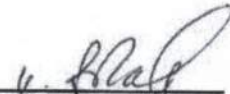
Laboratory Certification #165

Client: Paragon Environmental Consultants, Inc. Meritech ID#: 01211606
 Project: P-1305 Grab -N- Go (Winston Rd.) Analysis: 01/28/16
 Client Sample ID: Monitor Well # 1 @ 15' Analyst: VWV
 Sample Collection: 01/19/16 Dilution Factor: 1

SW846-8260B/5035 VOLATILE ORGANICS - Soil

Acetone	< 0.050 mg/kg	cis-1,3-Dichloropropene	< 0.005 mg/kg
Benzene	< 0.005 mg/kg	trans-1,3-Dichloropropene	< 0.005 mg/kg
Bromobenzene	< 0.005 mg/kg	Ethanol	< 0.250 mg/kg
Bromodichloromethane	0.005 mg/kg	Ethyl benzene	< 0.005 mg/kg
Bromochloromethane	< 0.005 mg/kg	2-Hexanone	< 0.010 mg/kg
Bromoform	< 0.005 mg/kg	Isopropylbenzene	< 0.005 mg/kg
Bromomethane	< 0.005 mg/kg	Isopropyl ether	< 0.005 mg/kg
2-Butanone (MEK)	< 0.050 mg/kg	p-Isopropyltoluene	< 0.005 mg/kg
n-Butylbenzene	< 0.005 mg/kg	Methylene chloride	< 0.005 mg/kg
sec-Butylbenzene	< 0.005 mg/kg	Methyl Isobutyl Ketone (MIBK)	< 0.050 mg/kg
tert-Butylbenzene	< 0.005 mg/kg	Naphthalene	< 0.005 mg/kg
Carbon Tetrachloride	< 0.005 mg/kg	n-Propylbenzene	< 0.005 mg/kg
Chlorobenzene	< 0.005 mg/kg	Styrene	< 0.005 mg/kg
Chloroethane	< 0.005 mg/kg	1,1,1,2-Tetrachloroethane	< 0.005 mg/kg
Chloroform	0.050 mg/kg	1,1,2,2-Tetrachloroethane	< 0.005 mg/kg
Chloromethane	< 0.005 mg/kg	Tetrachloroethene (PCE)	< 0.005 mg/kg
2-Chlorotoluene	< 0.005 mg/kg	Toluene	< 0.005 mg/kg
4-Chlorotoluene	< 0.005 mg/kg	1,1,1-Trichloroethane	< 0.005 mg/kg
Dibromochloromethane	< 0.005 mg/kg	1,1,2-Trichloroethane	< 0.005 mg/kg
1,2-Dibromo-3-chloropropane	< 0.005 mg/kg	Trichloroethene (TCE)	< 0.005 mg/kg
1,2-Dibromoethane (EDB)	< 0.005 mg/kg	1,2,3-Trichlorobenzene	< 0.005 mg/kg
Dibromomethane	< 0.005 mg/kg	1,2,4-Trichlorobenzene	< 0.005 mg/kg
Dichlorodifluoromethane	< 0.005 mg/kg	1,2,3-Trichloropropane	< 0.005 mg/kg
1,1-Dichloroethane	< 0.005 mg/kg	Trichlorofluoromethane	< 0.005 mg/kg
1,2-Dichloroethane	< 0.005 mg/kg	1,2,4-Trimethylbenzene	< 0.005 mg/kg
1,4-Dichlorobenzene	< 0.005 mg/kg	1,3,5-Trimethylbenzene	< 0.005 mg/kg
1,2-Dichlorobenzene	< 0.005 mg/kg	Vinyl acetate	< 0.010 mg/kg
1,3-Dichlorobenzene	< 0.005 mg/kg	Vinyl chloride	< 0.005 mg/kg
1,1-Dichloroethene	< 0.005 mg/kg	m/p-Xylenes	< 0.010 mg/kg
cis-1,2-Dichloroethene	< 0.005 mg/kg	o-Xylene	< 0.005 mg/kg
trans-1,2-Dichloroethene	< 0.005 mg/kg		
1,2-Dichloropropane	< 0.005 mg/kg	Additional Compounds	
1,3-Dichloropropane	< 0.005 mg/kg	Methyl-tert-butyl ether (MTBE)	0.020 mg/kg
2,2-Dichloropropane	< 0.005 mg/kg	Isopropyl ether (IPE)	< 0.005 mg/kg
1,1-Dichloropropene	< 0.005 mg/kg		
1,2-Dichloropropene	< 0.005 mg/kg		

I hereby certify that I have reviewed and approve these data.


 Laboratory Representative



MERITECH, INC.

Environmental Laboratories

Laboratory Certification #165

Client: Paragon Environmental Consultants, Inc.
 Project: P-1305 Grab -N- Go (Winston Rd.)
 Client Sample ID: Monitor Well # 1 @ 15'
 Sample Collection: 01/19/16
 Sample Weight: 4.30g
 % solid: 81%
 Preparation Date: 01/28/16

Meritech ID#: 01211606
 Analysis: 01/28/16
 Analyst: VWV
 Dilution Factor: 1
 Report Date: 01/29/16

Batch Blank = Below Reporting Limit (Yes) / No **

Internal Standards method criteria acceptable (Yes) / No **

<u>Surrogate Recoveries</u>	<u>Spike Conc</u>	<u>Spike Recovery</u>	<u>Limits</u>
Dibromofluoromethane	30 ug/L	116%	40-147%
Toluene-d8	30 ug/L	102%	44-128%
Bromofluorobenzene	30 ug/L	96%	40-145%

Laboratory QC Check

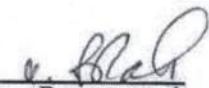
Matrix / Spike Recoveries acceptable (Yes) / No **

<u>Spike Compound</u>	<u>Spike Conc</u>	<u>Spike %Rec.</u>	<u>Duplicate % Rec.</u>	<u>RPD</u>	<u>RPD Limits</u>	<u>QC Limits</u>
1,1-Dichloroethene	25 ug/L	54%	50%	8	20	49-138
Benzene	25 ug/L	101%	93%	9	20	58-124
Trichloroethene	25 ug/L	108%	98%	9	20	45-132
Toluene	25 ug/L	120%	101%	17	20	64-123
Chlorobenzene	25 ug/L	124%#	111%#	11	20	61-109

- Fails Limit Check

** - If "no" is selected, see third page for details.

I hereby certify that I have reviewed and approve these data.


 Laboratory Representative



Meritech Inc.

Environmental Laboratories

Laboratory Certification #165

Client Name	<u>Paragon Environmental Consultants, Inc.</u>	Laboratory Name	<u>MERITECH, INC.</u>
Project Name	<u>P-1305</u>	NC Certification # (Lab)	<u>#165</u>
Site Location	<u>Grab-N-Go (Winston Rd.)</u>	Sample Matrix	<u>Soil</u>

VPH (Aliphatics/Aromatics) Sample Information and Analytical Results

Method for Ranges: MADEP VPH VPH Surrogate Standards Aliphatic: 2,5-Dibromtoluene Aromatic: 2,5-Dibromtoluene		Sample Identification			Trip Blank	MW1-15'	
		Lab Identification			Trip Blank	01211606	
		Collection Option (for soil)*			1	1	
		Date Collected			01/19/16	01/19/16	
		Date Received			01/21/16	01/21/16	
		Date Extracted			N/A	01/27/16	
		Date Analyzed			01/27/16	01/27/16	
		% Dry Solids			N/A	81%	
		Dilution Factor			N/A	N/A	
		Hydrocarbon Ranges	Units of Measure	MDL	RL	Blank	
C5 - C8 Aliphatics*	mg/kg	2.05	5.00	< 5.00	< 5.00	< 5.00	
C9 - C12 Aliphatics*	mg/kg	2.08	5.00	< 5.00	< 5.00	< 5.00	
C9- C10 Aromatics*	mg/kg	1.52	5.00	< 5.00	< 5.00	< 5.00	
Sample Surrogate Acceptance Range				70 - 130%	70 - 130%	70 - 130%	
Aromatic Surrogate % Recovery - PID				125%	105%	90%	
Aliphatic Surrogate % Recovery - FID				130%	110%	96%	

* Option 1 = Establish fill line on vial Option 2 = Sampling Device (indicate brand, e.g.EnCore TM)
Option 3 = Field weigh of soil
* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
** Surrogate recovery exceeds limits (70-130%).

MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank

VPH rev. 03/25/10

Were all performance/acceptance standards for required QA/QC procedures achieved?
(YES) NO - Details Attached

Was blank correction applied as a significant modification of the method?
YES (NO)

Were any significant modifications to the VPH method made?
(NO) YES - Details Attached

Reviewed By *V. Ball*

Chain of Custody Record (COC)



MERITECH, INC.

ENVIRONMENTAL LABORATORIES

642 Tamco Rd. Phone: 336-342-4748
 Reidsville NC 27320 Fax: 336-342-1522
 Email: info@meritech-labs.com

www.meritech-labs.com

Client: _____
 Address: **PEI PARAGON**
Environmental Consultants, Inc.
 P.O. Box 157
 Thomasville, NC 27361
 (336) 669-6037

NPDES#: _____
 Phone: _____
 Fax: _____
 Email: _____
 Project: Grab-N-Go (Winston Rd.)
 P.O.#: P-1305

Attention: Brandon Moore

How would you like your report sent?

Circle all that apply: Email (preferred), Fax, Mail

Turn Around Time*
 *RUSH work needs prior approval.
 Std (10 days) 3 - 5 Days 24 - 48 Hrs

Sample Location and/or ID #	Sampling Dates & Times				Comp? Grab?	# of Cont.	Test(s) Required	Lab Use Only	
	Start		End					On Ice?	pH OK?
	Date	Time	Date	Time				Yes/No	Cl OK?
monitor well #1 (mw-1)	1-20-16	10:45			G 6	EPA Methods 6200B plus MTBE/IPE, VPH, Lead			
monitor well #1 @ 15' (mw1-15')	1-19-16	10:30			G 5	EPA Methods 8260 plus MTBE/IPE, VPH			
Trip Blank (TB)					4	6200B, VPH, 8260, VPH			

Person Taking Sample (Sign/Print): Brad Berrier

*** Dechlorination (<0.5 ppm) of Ammonia, Cyanide, Phenol and TKN samples must be done in the field prior to preservation. ***

Method of Shipment:
 UPS
 Fed Ex
 Hand Delivery
 Other

Comments: _____
 Are these results for regulatory purposes? Yes No
 Report results in: mg/L mg/kg ug/L

Relinquished by: <u>Brad Berrier</u>	Date: <u>1/21/16</u>	Time: <u>920</u>	Received by: <u>[Signature]</u>	Date: <u>1/21/16</u>	Time: <u>920</u>
Relinquished by: <u>[Signature]</u>	Date: <u>1/21/16</u>	Time: <u>1050</u>	Received by: <u>[Signature]</u>	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by Lab: <u>[Signature]</u>	Date: <u>1/21/16</u>	Time: <u>1050</u>

Temperature Upon Receipt: 0.7
 Compositor # _____
 Jug # _____

APPENDIX C

WELL CONSTRUCTION RECORD

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Bradley Dean Berrier

Well Contractor Name

4074-B

NC Well Contractor Certification Number

Innovative Environmental Technologies, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:

- Agricultural Municipal/Public
- Geothermal (Heating/Cooling Supply) Residential Water Supply (single)
- Industrial/Commercial Residential Water Supply (shared)
- Irrigation

Non-Water Supply Well:

- Monitoring Recovery

Injection Well:

- Aquifer Recharge Groundwater Remediation
- Aquifer Storage and Recovery Salinity Barrier
- Aquifer Test Stormwater Drainage
- Experimental Technology Subsidence Control
- Geothermal (Closed Loop) Tracer
- Geothermal (Heating/Cooling Return) Other (explain under #21 Remarks)

4. Date Well(s) Completed: 1/19/16 Well ID# MW-1

5a. Well Location:

Grab & Go-Winston Road **00-0-000024863**

Facility/Owner Name

Facility ID# (if applicable)

1009 Winston Road 27292

Physical Address, City, and Zip

Davidson **6726-04-82-5831**

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.8394604 N **80.2533683** W

6. Is (are) the well(s): Permanent or Temporary

7. Is this a repair to an existing well: Yes or No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 30 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 18.02 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 6 (in.)

12. Well construction method: Auger

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ Method of test: _____

13b. Disinfection type: _____ Amount: _____

For Internal Use ONLY:

14. WATER ZONES					
FROM	TO	DESCRIPTION			
ft.	ft.				
ft.	ft.				
15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)					
FROM	TO	DIAMETER	THICKNESS	MATERIAL	
0 ft.	10 ft.	2 in.			
16. INNER CASING OR TUBING (geothermal closed-loop)					
FROM	TO	DIAMETER	THICKNESS	MATERIAL	
ft.	ft.	in.			
ft.	ft.	in.			
17. SCREEN					
FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
10 ft.	30 ft.	2 in.			
ft.	ft.	in.			
18. GROUT					
FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT		
6 ft.	8 ft.	Benonite	Pour		
0 ft.	6 ft.	Cement	Pour		
ft.	ft.				
19. SAND/GRAVEL PACK (if applicable)					
FROM	TO	MATERIAL	EMPLACEMENT METHOD		
8 ft.	30 ft.	Sand	Pour		
ft.	ft.				
20. DRILLING LOG (attach additional sheets if necessary)					
FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)			
0 ft.	10 ft.	Tan, CLAY			
10 ft.	18 ft.	Orange/tan, CLAY			
18 ft.	25 ft.	Light orange, CLAY			
25 ft.	30 ft.	Orange/tan, CLAY			
ft.	ft.				
ft.	ft.				
ft.	ft.				
21. REMARKS					

22. Certification

 2-4-16
 Signature of Certified Well Contractor Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:

Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

APPENDIX D

STANDARD OPERATING PROCEDURES

STANDARD OPERATING PROCEDURES
PARAGON ENVIRONMENTAL CONSULTANTS, INC.

I. SOIL SAMPLE PROCEDURES

1. Collect all samples using disposable Latex gloves. Gloves are not to be re-used.
2. Place samples into laboratory supplied glassware following requirements for specific analysis.
3. Label samples with sample ID, date, time, and job number. Immediately place samples on ice or in refrigerator to be cooled to approximately 4 degrees Celsius.
4. Store all samples on ice or refrigerate until samples are delivered to the laboratory.
5. Complete a chain of custody record for samples to be submitted to laboratory. Sign and date the chain of custody when samples are relinquished in accordance with EPA chain of custody protocol.

II. GROUNDWATER SAMPLING

1. Use new disposable bailer and new nylon string to develop well and collect sample. Handle bailer and string with Latex gloves.
2. Develop well by removing 3 well volumes of water. Dispose of water in accordance with NCDENR guidelines.
3. Following well development obtain samples in laboratory supplied glassware following requirements for specific analysis.
4. Handle, store, and transport samples in same manner as for soil samples. See items I.3, I.4, and I.5 above.

III. EQUIPMENT CONTAMINATION

1. Decontaminate augers, split spoons, and other sampling equipment by the following procedure:
 - A. Soap and tap water wash
 - B. Tap water rinse
 - C. Distilled deionized water rinse
 - D. Isopropyl alcohol rinse
 - E. Distilled water rinse
2. Use new disposable sampling equipment whenever practical.

APPENDIX E

GROUNDWATER ANALYTICAL RESULTS



Meritech, Inc.
Environmental Laboratory
Laboratory Certification No. 165

Contact: Mr. Brandon Moore
Client: Paragon Environmental Consultants
PO Box 157
Thomasville NC 27361

Report Date: 2/1/2016
PO# P-1305
Project # Grab-N-Go (Winston Rd.)
Date Sample Rcvd: 1/21/2016

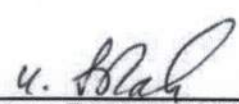
Meritech Work Order # 01211605 Sample: MW-1 Grab 1/20/16

<u>Parameters</u>	<u>Results</u>	<u>Analysis Date</u>	<u>Reporting Limit</u>	<u>Method</u>
Lead, total	<0.010 mg/L	2/1/16	0.010 mg/L	EPA 200.7
EPA 6200B +MTBE+IPE	Attached	1/21/16	- -	6200
VPH	Attached	1/27/16	- -	-

Meritech Work Order # 01211606 Sample: MW1-15 Grab 1/19/16

<u>Parameters</u>	<u>Results</u>	<u>Analysis Date</u>	<u>Reporting Limit</u>	<u>Method</u>
EPA 8260 +MTBE+IPE	Attached	1/28/16	- -	8260
VPH	Attached	1/27/16	- -	-

I hereby certify that I have reviewed and approve these data.



Laboratory Representative



MERITECH, INC.

Environmental Laboratories

Laboratory Certification #165

Client: Paragon Environmental Consultants, Inc. Meritech ID#: 01211605
 Project: P-1305 Grab-N-Go (Winston Rd.) Analysis: 01/21/16
 Client Sample ID: Monitor Well # 1 Analyst: VWV
 Sample Collection: 01/20/16 Dilution Factor: 1 / 100

SM-6200B VOLATILE ORGANICS - Water

Acetone	< 5.00 ug/L	cis-1,3-Dichloropropene	< 0.500 ug/L
Benzene	90.3 ug/L	trans-1,3-Dichloropropene	< 0.500 ug/L
Bromobenzene	< 0.500 ug/L	Ethanol	< 50.0 ug/L
Bromodichloromethane	< 0.500 ug/L	Ethyl benzene	14.3 ug/L
Bromochloromethane	< 0.500 ug/L	2-Hexanone	< 1.00 ug/L
Bromoform	< 0.500 ug/L	Hexachlorobutadiene	< 0.500 ug/L
Bromomethane	< 0.500 ug/L	Isopropylbenzene	11.2 ug/L
2-Butanone (MEK)	< 5.00 ug/L	p-Isopropyltoluene	< 0.500 ug/L
n-Butylbenzene	5.75 ug/L	Methylene chloride	< 0.500 ug/L
sec-Butylbenzene	< 0.500 ug/L	Methyl Isobutyl Ketone (MIBK)	< 0.500 ug/L
tert-Butylbenzene	< 0.500 ug/L	Naphthalene	36.2 ug/L
Carbon Tetrachloride	< 0.500 ug/L	n-Propylbenzene	21.0 ug/L
Chlorobenzene	< 0.500 ug/L	Styrene	< 0.500 ug/L
Chloroethane	< 0.500 ug/L	1,1,1,2-Tetrachloroethane	< 0.500 ug/L
Chloroform	< 0.500 ug/L	1,1,2,2-Tetrachloroethane	< 0.500 ug/L
Chloromethane	< 0.500 ug/L	Tetrachloroethene (PCE)	< 0.500 ug/L
2-Chlorotoluene	< 0.500 ug/L	Toluene	< 0.500 ug/L
4-Chlorotoluene	< 0.500 ug/L	1,1,1-Trichloroethane	< 0.500 ug/L
Dibromochloromethane	< 0.500 ug/L	1,1,2-Trichloroethane	< 0.500 ug/L
1,2-Dibromo-3-chloropropane	< 0.500 ug/L	Trichloroethene (TCE)	< 0.500 ug/L
1,2-Dibromoethane (EDB)	< 0.500 ug/L	1,2,3-Trichlorobenzene	< 0.500 ug/L
Dibromomethane	< 0.500 ug/L	1,2,4-Trichlorobenzene	< 0.500 ug/L
Dichlorodifluoromethane	< 0.500 ug/L	1,2,3-Trichloropropane	< 0.500 ug/L
1,1-Dichloroethane	< 0.500 ug/L	Trichlorofluoromethane	< 0.500 ug/L
1,2-Dichloroethane	< 0.500 ug/L	1,2,4-Trimethylbenzene	135 ug/L
1,4-Dichlorobenzene	< 0.500 ug/L	1,3,5-Trimethylbenzene	123 ug/L
1,2-Dichlorobenzene	< 0.500 ug/L	Vinyl acetate	< 1.00 ug/L
1,3-Dichlorobenzene	< 0.500 ug/L	Vinyl chloride	< 0.500 ug/L
1,1-Dichloroethene	< 0.500 ug/L	m/p-Xylenes	86.4 ug/L
cis-1,2-Dichloroethene	< 0.500 ug/L	o-Xylene	44.3 ug/L
trans-1,2-Dichloroethene	< 0.500 ug/L	<u>Additional Compounds</u>	
1,2-Dichloropropane	< 0.500 ug/L	Methyl-tert-butyl ether (MTBE)	4,570 ug/L
1,3-Dichloropropane	< 0.500 ug/L	Isopropyl ether (IPE)	25.0 ug/L
2,2-Dichloropropane	< 0.500 ug/L		
1,1-Dichloropropene	< 0.500 ug/L		
1,2-Dichloropropene	< 0.500 ug/L		

Laboratory Representative

I hereby certify that I have reviewed and approve these data.



MERITECH, INC.

Environmental Laboratories

Laboratory Certification #165

Client: Paragon Environmental Consultants, Inc.
 Project: P-1305 Grab-N-Go (Winston Rd.)
 Client Sample ID: Monitor Well # 1
 Sample Collection: 01/20/16
 Sample Volume: 5ml purge
 % solid: N/A

Meritech ID#: 01211605
 Analysis: 01/21/16
 Analyst: VWV
 Dilution Factor: 1 / 100
 Report Date: 01/28/16

Batch Blank = Below Reporting Limit (Yes) / No *

Internal Standards method criteria acceptable (Yes) / No *

<u>Surrogate Recoveries</u>	<u>Spike Conc</u>	<u>Spike Recovery</u>	<u>Limits</u>
Dibromofluoromethane	30 ug/L	119%	51-141%
Toluene-d8	30 ug/L	108%	67-151%
Bromofluorobenzene	30 ug/L	91%	45-161%

Laboratory QC Check

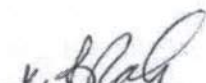
Matrix / Spike Recoveries Acceptable (Yes) / No *

<u>Spike Compound</u>	<u>Spike Conc</u>	<u>Spike %Rec.</u>	<u>Duplicate % Rec.</u>	<u>RPD</u>	<u>RPD Limits</u>	<u>QC Limits</u>
1,1-Dichloroethene	25 ug/L	61%	57%	7	20	49-117
Benzene	25 ug/L	107%	99%	7	20	58-145
Trichloroethene	25 ug/L	95%	90%	5	20	48-107
Toluene	25 ug/L	101%	93%	8	20	52-110
Chlorobenzene	25 ug/L	98%	92%	7	20	40-137

- Fails Limit Check

* - If "no" is selected, see third page for details.

I hereby certify that I have reviewed and approve these data.


 Laboratory Representative



MERITECH, INC.

Environmental Laboratories

Laboratory Certification #165

Client: Paragon Environmental Consultants, Inc. Meritech ID#: 01211605tb
 Project: P-1305 Grab-N-Go (Winston Rd.) Analysis: 01/21/16
 Client Sample ID: Trip Blank Analyst: VWV
 Sample Collection: 01/20/16 Dilution Factor: 1

SM-6200B VOLATILE ORGANICS - Water

Acetone	< 5.00 ug/L	cis-1,3-Dichloropropene	< 0.500 ug/L
Benzene	< 0.500 ug/L	trans-1,3-Dichloropropene	< 0.500 ug/L
Bromobenzene	< 0.500 ug/L	Ethanol	< 50.0 ug/L
Bromodichloromethane	< 0.500 ug/L	Ethyl benzene	< 0.500 ug/L
Bromochloromethane	< 0.500 ug/L	2-Hexanone	< 1.00 ug/L
Bromoform	< 0.500 ug/L	Hexachlorobutadiene	< 0.500 ug/L
Bromomethane	< 0.500 ug/L	Isopropylbenzene	< 0.500 ug/L
2-Butanone (MEK)	< 5.00 ug/L	p-Isopropyltoluene	< 0.500 ug/L
n-Butylbenzene	< 0.500 ug/L	Methylene chloride	< 0.500 ug/L
sec-Butylbenzene	< 0.500 ug/L	Methyl Isobutyl Ketone (MIBK)	< 0.500 ug/L
tert-Butylbenzene	< 0.500 ug/L	Naphthalene	< 0.500 ug/L
Carbon Tetrachloride	< 0.500 ug/L	n-Propylbenzene	< 0.500 ug/L
Chlorobenzene	< 0.500 ug/L	Styrene	< 0.500 ug/L
Chloroethane	< 0.500 ug/L	1,1,1,2-Tetrachloroethane	< 0.500 ug/L
Chloroform	< 0.500 ug/L	1,1,2,2-Tetrachloroethane	< 0.500 ug/L
Chloromethane	< 0.500 ug/L	Tetrachloroethene (PCE)	< 0.500 ug/L
2-Chlorotoluene	< 0.500 ug/L	Toluene	< 0.500 ug/L
4-Chlorotoluene	< 0.500 ug/L	1,1,1-Trichloroethane	< 0.500 ug/L
Dibromochloromethane	< 0.500 ug/L	1,1,2-Trichloroethane	< 0.500 ug/L
1,2-Dibromo-3-chloropropane	< 0.500 ug/L	Trichloroethene (TCE)	< 0.500 ug/L
1,2-Dibromoethane (EDB)	< 0.500 ug/L	1,2,3-Trichlorobenzene	< 0.500 ug/L
Dibromomethane	< 0.500 ug/L	1,2,4-Trichlorobenzene	< 0.500 ug/L
Dichlorodifluoromethane	< 0.500 ug/L	1,2,3-Trichloropropane	< 0.500 ug/L
1,1-Dichloroethane	< 0.500 ug/L	Trichlorofluoromethane	< 0.500 ug/L
1,2-Dichloroethane	< 0.500 ug/L	1,2,4-Trimethylbenzene	< 0.500 ug/L
1,4-Dichlorobenzene	< 0.500 ug/L	1,3,5-Trimethylbenzene	< 0.500 ug/L
1,2-Dichlorobenzene	< 0.500 ug/L	Vinyl acetate	< 1.00 ug/L
1,3-Dichlorobenzene	< 0.500 ug/L	Vinyl chloride	< 0.500 ug/L
1,1-Dichloroethene	< 0.500 ug/L	m/p-Xylenes	< 1.00 ug/L
cis-1,2-Dichloroethene	< 0.500 ug/L	o-Xylene	< 0.500 ug/L
trans-1,2-Dichloroethene	< 0.500 ug/L	Additional Compounds	
1,2-Dichloropropane	< 0.500 ug/L	Methyl-tert-butyl ether (MTBE)	< 0.500 ug/L
1,3-Dichloropropane	< 0.500 ug/L	Isopropyl ether (IPE)	< 0.500 ug/L
2,2-Dichloropropane	< 0.500 ug/L		
1,1-Dichloropropene	< 0.500 ug/L		
1,2-Dichloropropene	< 0.500 ug/L		

Laboratory Representative

I hereby certify that I have reviewed and approve these data.



MERITECH, INC.

Environmental Laboratories

Laboratory Certification #165

Client: Paragon Environmental Consultants, Inc.
 Project: P-1305 Grab-N-Go (Winston Rd.)
 Client Sample ID: Trip Blank
 Sample Collection: 01/20/16
 Sample Volume: 5ml purge
 % solid N/A

Meritech ID#: 01211605tb
 Analysis: 01/21/16
 Analyst: VWV
 Dilution Factor: 1
 Report Date: 01/28/16

Batch Blank = Below Reporting Limit (Yes) / No *

Internal Standards method criteria acceptable (Yes) / No *

<u>Surrogate Recoveries</u>	<u>Spike Conc</u>	<u>Spike Recovery</u>	<u>Limits</u>
Dibromofluoromethane	30 ug/L	112%	51-141%
Toluene-d8	30 ug/L	100%	67-151%
Bromofluorobenzene	30 ug/L	90%	45-161%

Laboratory QC Check

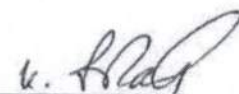
Matrix / Spike Recoveries Acceptable (Yes) / No *

<u>Spike Compound</u>	<u>Spike Conc</u>	<u>Spike %Rec.</u>	<u>Duplicate % Rec.</u>	<u>RPD</u>	<u>RPD Limits</u>	<u>QC Limits</u>
1,1-Dichloroethene	25 ug/L	61%	57%	7	20	49-117
Benzene	25 ug/L	107%	99%	7	20	58-145
Trichloroethene	25 ug/L	95%	90%	5	20	48-107
Toluene	25 ug/L	101%	93%	8	20	52-110
Chlorobenzene	25 ug/L	98%	92%	7	20	40-137

- Fails Limit Check

* - If "no" is selected, see third page for details.

I hereby certify that I have reviewed and approve these data.


 Laboratory Representative



Meritech Inc.

Environmental Laboratories

Laboratory Certification #165

Client Name	<u>Paragon Environmental Consultants, Inc.</u>	Laboratory Name	<u>MERITECH, INC.</u>
Project Name	<u>P-1305</u>	NC Certification # (Lab)	<u>#165</u>
Site Location	<u>Grab-N-Go (Winston Rd.)</u>	Sample Matrix	<u>Water</u>

VPH (Aliphatics/Aromatics) Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification			Trip Blank	MW-1	
		Lab Identification			Trip Blank	01211605	
		Collection Option (for soil)*			N/A	N/A	
		Date Collected			01/20/16	01/20/16	
		Date Received			01/21/16	01/21/16	
		Date Extracted			N/A	N/A	
		Date Analyzed			01/27/16	01/27/16	
		% Dry Solids			N/A	N/A	
		Dilution Factor			N/A	10	
Hydrocarbon Ranges	Units of Measure	MDL	RL	Blank			
C5 - C8 Aliphatics*	ug/L	4.58	100	< 100	< 100	3,840	
C9 - C12 Aliphatics*	ug/L	2.84	100	< 100	< 100	2,680	
C9- C10 Aromatics*	ug/L	1.24	100	< 100	< 100	< 1,000	
Sample Surrogate Acceptance Range				70 - 130%	70 - 130%	70 - 130%	
Aromatic Surrogate % Recovery - PID				120%	113%	129%	
Aliphatic Surrogate % Recovery - FID				130%	124%	127%	
<p>* Option 1 = Establish fill line on vial Option 2 = Sampling Device (indicate brand, e.g.EnCore TM) Option 3 = Field weigh of soil</p> <p>* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range. ** Surrogate recovery exceeds limits (70-130%). MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank</p>							

VPH rev. 03/25/10

Were all performance/acceptance standards for required QA/QC procedures achieved?
(YES) NO - Details Attached

Was blank correction applied as a significant modification of the method?
YES (NO)

Were any significant modifications to the VPH method made?
(NO) YES - Details Attached

Reviewed By u. Pal

Chain of Custody Record (COC)



MERITECH, INC.

ENVIRONMENTAL LABORATORIES

642 Tamco Rd. Phone: 336-342-4748
 Reidsville NC 27320 Fax: 336-342-1522
 Email: info@meritech-labs.com

www.meritech-labs.com

Client: _____
 Address: **PEI PARAGON**
Environmental Consultants, Inc.
 P.O. Box 157
 Thomasville, NC 27361
 (336) 669-6037

NPDES#: _____
 Phone: _____
 Fax: _____
 Email: _____
 Project: Grab-N-Go (Winston Rd.)
 P.O.#: P-1305

Attention: Brandon Moore

How would you like your report sent?

Circle all that apply: Email (preferred), Fax, Mail

Turn Around Time*
 *RUSH work needs prior approval.
 Std (10 days) 3 - 5 Days 24 - 48 Hrs

Sample Location and/or ID #	Sampling Dates & Times				Comp? Grab?	# of Cont.	Test(s) Required	Lab Use Only	
	Start		End					On Ice?	pH OK?
	Date	Time	Date	Time				Yes / No	Cl OK?
monitor well #1 (MW-1)	1-20-16	10:45			G 6	EPA Methods 6200B plus MTBE/IPE, VPH, Lead	<input checked="" type="checkbox"/>		
monitor well #1 @ 15' (MW-15')	1-19-16	10:30			G 5	EPA Methods 8260 plus MTBE/IPE, VPH	<input checked="" type="checkbox"/>		
Trip Blank (TB)					4	6200B, VPH, 8260, VPH			

Person Taking Sample (Sign/Print): Brad Berrier

*** Dechlorination (<0.5 ppm) of Ammonia, Cyanide, Phenol and TKN samples must be done in the field prior to preservation. ***

Method of Shipment:
 UPS
 Fed Ex
 Hand Delivery
 Other

Comments:
 Are these results for regulatory purposes? Yes No
 Relinquished by: [Signature] Date: 1/21/16 Time: 9:20
 Relinquished by: [Signature] Date: 1/21/16 Time: 10:50
 Relinquished by: _____ Date: _____ Time: _____

Report results in: mg/L mg/kg ug/L
 Received by: [Signature] Date: 1/21/16 Time: 9:20
 Received by: [Signature] Date: _____ Time: _____
 Received by: [Signature] Date: 1/21/16 Time: 10:50

Temperature Upon Receipt: 0.7
 Compositor # _____
 Jug # _____



PAT MCCRORY

Governor

DONALD R. VAN DER VAART

Secretary

MICHAEL SCOTT

Acting Director

March 22, 2016

DSF of NC, Inc.
Shehzad Quamar, Reg. Agent
2105 Needle Leaf Lane
Greensboro, NC 27410-2962

Re: Notice of No Further Action 15A NCAC 2L
.0407(d) Risk-based Assessment and Corrective
Action for Petroleum Underground Storage
Tanks

Grab & Go
1009 Winston Road, Lexington, NC
Davidson County
Incident Number: 44108
Risk Classification: Low
Ranking: L40R

Dear Mr. Mr. Quamar:

The Limited Site Assessment Report received by the UST Section, Division of Waste Management, Winston-Salem Regional Office on February 5, 2016 has been reviewed. The review indicates that soil contamination does not exceed the residential maximum soil contaminant concentrations (MSCCs), established in Title 15A NCAC 2L .0411 and that groundwater contamination does not exceed the groundwater quality standards established in Title 15A NCAC 2L .0202.

The UST Section determines that no further action is warranted for this incident. All required actions have been completed. On March 22, 2016, the UST Section was provided with proof of receipt (Public Notice) of the conditional Notice of No further Action letter or of refusal by the addressee to accept delivery of the letter or with a description of the manner in which the letter was posted.

This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. Pursuant to Title 15A NCAC 2L .0407(a) you have a continuing obligation to notify the Department of any changes that might affect the risk or land use classifications that have been assigned.

This No Further Action determination applies only to the subject incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required.

If you have any questions regarding this notice, please contact me at the address or telephone number listed below.