

Engineering of NC INC

an affiliate of The GEL Group INC

GEOENVIRONMENTAL PHASE II INVESTIGATION REPORT

20900 N. MAIN SREET, CORNELIUS, NC

December 5, 2019

46425.1.1

TIP Number: U-5873

County: Mecklenburg

Description: Intersection of NC 115 and Potts Street:

Construct Improvements, Cornelius,

Mecklenburg County, NC

Parcel No (PIN): Parcel #2; The Cycle Path (prior Pantry #783)

PIN # 00705412

20900 N. Main Street, Cornelius, NC 28031 Address:

Submitted to:

North Carolina Department of Transportation

Geotechnical Engineering Unit 1589 Mail Service Center

Raleigh, North Carolina 27699-1589

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This document, entitled *GeoEnvironmental Phase II Investigation Report, Parcel #2, 20900 N. Main Street, Cornelius, NC*, has been prepared by GEL Engineering of NC, Inc., for the parcel identified above in accordance with the Notice to Proceed issued by the North Carolina Department of Transportation – Geotechnical Engineering Unit on September 17, 2019. It has been prepared in accordance with accepted quality control practices for the exclusive use of the North Carolina Department of Transportation and has been reviewed by the undersigned.

GEL ENGINEERING OF NC, INC. an Affiliate of The GEL Group, Inc.

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December 5, 2019

Date

GEOENVIRONMENTAL PHASE II INVESTIGATION REPORT PARCEL #2, 20900 N. MAIN SREET, CORNELIUS, NC

December 5, 2019

Intersection of NC 115 and Potts Street; Construct Improvements,
Cornelius, Mecklenburg County, NC
Parcel #2; The Cycle Path (prior Pantry #783), PIN # 00705412
WBS Number: 46425.1.1; TIP Number: U-5873
Mecklenburg County

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TABLE

1 Soil Sample Field Screening and Laboratory Analytical Results Summary

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APPENDICES

- 1 Site Photographs
- 2 Soil Boring Logs
- 3 Laboratory Analytical Report and Chain of Custody Record for Soil Samples

1.0 INTRODUCTION

The North Carolina Department of Transportation (NCDOT) authorized GEL Engineering of NC, Inc. (GEL), to perform a Phase II GeoEnvironmental Investigation at the subject parcel in Mecklenburg County. The objective of the investigation was to evaluate the presence of potential environmental hazards within the existing and proposed rights-of-way (ROWs) and/or easements, including objects such as underground storage tanks (USTs) and petroleum contaminated soil. The subject parcel location is shown on Figure 1 and listed below.

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Parcel #	<u>Owner</u>	Business Name	<u>Address</u>	Mecklenburg County PIN #		
2	Sibley Family, LLC	The Cycle Path (prior Pantry #783)	20900 N. Main St. Cornelius, NC 28031	00705412		

A portion of the parcel was designated as the investigation area from information included in NCDOT's U-5873 CAD files provided to GEL. This area is shown on Figure 2 and extends from the edge-of-pavement to the innermost existing or proposed ROW or easement. Geophysical surveys were conducted across the investigation area using ground penetrating radar (GPR) and time-domain electromagnetic (TDEM) technologies. Seven geoenvironmental soil borings were installed within the investigation area at the locations shown on Figure 3. The methodologies and results of these investigations are discussed in the following sections.

In addition to the electronic DocuSign copy of this report, GEL is submitting to NCDOT (a) an electronic MicroStation U-5873_Geo_env.dgn file that provides the geoenvironmental soil boring locations, and (b) a Microsoft Excel file of the soil sample ultra-violet fluorescence (UVF) spectrometry analytical results prepared by RED Lab, LLC, of Wilmington, North Carolina (RED Lab).

2.0 HISTORY

Pre-scoping comments prepared by the NCDOT GeoEnvironmental Section for the subject parcel are as follows:

Parcel 002: The Pantry #783, Incident Num: 27177, tank release upon removal of 3 USTs, incident closed out 6/18/1997. UST Num: MO-2346. Also formerly the site of The Mattress Gallery.

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GEL searched North Carolina Department of Environmental Quality (NCDEQ) electronic records and contacted the NCDEQ Mooresville Regional Office and NCDEQ Headquarters in Raleigh to obtain pertinent environmental records and regulatory history. GEL obtained and reviewed the following documents that confirm NCDOT's pre-scoping comments presented above: (a) a completed 24-Hour Release and UST Leak Reporting Form dated May 13, 1997, (b) an Underground Storage Tank Closure Report prepared by Spatco Environmental, Inc., dated May 19, 1997, and (c) a letter from the NCDEQ (then, NCDEHNR) Mooresville Regional office Division of Water Quality stating no further action is required at the site following the UST removal. From the UST Closure Report, two 8,000-gallon and one 10,000-gallon USTs each held gasoline and were situated between the building and North Main Street. Nine soil samples collected from 12 to 12.5 feet below ground surface were analyzed for total petroleum hydrocarbons (TPH), gasoline fraction, by EPA Method 5030. TPH was not detected in seven of the samples above the sample detection limit of 2.0 milligrams per kilogram (mg/Kg), and TPH-gasoline fraction was detected in the remaining two samples at 5.4 and 5.7 mg/Kg.

3.0 SITE OBSERVATIONS

In advance of the field investigation, the GEL Project Manager contacted the owner of the onsite business, The Cycle Path, and the property owner, Mickey Sibley, of the planned investigation activities. The GEL Project Manager also discussed the operations with the onsite business owner and employees while conducting a site reconnaissance on October 16, 2019, during the beginning of the investigation. Representative photographs taken during the site reconnaissance are provided in Appendix A.

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An onsite building is situated approximately 100 feet from the edge of pavement. This building is not depicted in the NCDOT CAD files (e.g., see Figure 2) but is visible in Photograph 1 (Appendix A). The investigation area consists of paved driveways, parking areas, and a landscaped island (see Photograph 2, Appendix A). Uneven pavement visible in Photographs 8 and 9 (Appendix A) may indicate the edge of the prior UST excavation. No other features of potential environmental concern were observed within or adjacent to the investigation area. The only obstructions to the geophysical survey across the investigation area were minor surface utility structures, signposts, and landscaping.

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4.0 METHODS

This section describes the field methods followed to complete the geophysical surveys and the geoenvironmental soil boring and sampling program.

4.1 Geophysical Survey Methods

The geophysical evaluation included the deployment of GPR and TDEM technologies to the site. These technologies were used in concert with one another in order to identify the presence of potential USTs or other subsurface features of concern such as buried drums. A brief description of these technologies is presented in the following paragraphs.

The GPR and TDEM surveys were conducted by towing the geophysical equipment along a system of transect lines on an approximately 2.5-foot spaced grid established within the investigation area. In spatially restricted and surface obstructed areas, a modified pattern of transect lines was implemented to maximize data acquisition. Positioning for the investigation was provided using a Trimble real-time kinematic (RTK) global positioning system (GPS).

4.1.1 Ground Penetrating Radar Methodology

An ImpulseRadar Crossover dual-channel digital radar control system configured with a 400- and 800-Megahertz (MHz) antenna array was used in this investigation. GPR is an electromagnetic geophysical method that detects interfaces between subsurface materials with differing dielectric constants. The GPR system consists of an antenna which houses the transmitter and receiver, a digital control unit which both generates and digitally records the GPR data, and a color video monitor to view data as it is collected in the field.

The transmitter radiates repetitive short duration electromagnetic waves (at radar frequencies) into the earth from an antenna moving across the ground surface. These radar waves are reflected back to the receiver from the interface of materials with different dielectric constants. The intensity of the reflected signal is a function of the contrast in the dielectric constant between the materials, the conductivity of the material through which the wave is traveling, and the frequency of the signal.

Subsurface features that commonly cause such reflections are: 1) natural geologic conditions, such as changes in sediment composition, bedding, and cementation horizons and voids; or 2) unnatural changes to the subsurface such as disturbed soils, soil backfill, buried debris, tanks,

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pipelines, and utilities. The digital control unit processes the signal from the receiver and produces a continuous cross-section of the subsurface interface reflection events.

GPR data profiles were collected along transects covering the entire investigation area. Depth of investigation of the GPR signal is highly site specific and is limited by signal attenuation (absorption) in the subsurface materials. Signal attenuation is dependent upon the electrical conductivity of the subsurface materials. Signal attenuation is greatest in materials with relatively high electrical conductivities such as clays, brackish groundwater, or groundwater with a high dissolved solid content from natural or manmade sources. Signal attenuation is lowest in relatively low conductivity materials such as dry sand or rock. Depth of investigation is also dependent on the antenna's transmitting frequency. Depth of investigation generally increases as transmitting frequency decreases; however, the ability to resolve smaller subsurface features is diminished as frequency is decreased. The average depth of penetration at this site was approximately 3 to 5 feet below the surface.

The GPR antenna used at this site is internally shielded from aboveground interference sources. Accordingly, the GPR response is not affected by overhead power lines, metallic buildings, or nearby objects.

4.1.2 Time Domain Electromagnetic Methodology

TDEM methods measure the electrical conductivity of subsurface materials. The conductivity is determined by inducing (from a transmitter) a time or frequency-varying magnetic field and measuring (with a receiver) the amplitude and phase shift of an induced secondary magnetic field. The secondary magnetic field is created by subsurface conductive materials behaving as an inductor as the primary magnetic field is passed through them.

The Geonics EM-61 system used in this investigation operates within these principles. However, the EM-61 TDEM system can discriminate between moderately conductive earth materials and very conductive metallic targets. The EM-61 consists of a portable coincident loop time domain transmitter and receiver with a 1.0-meter by 0.5-meter coil system. The EM-61 generates 150 pulses per second and measures the response from the ground after transmission or between pulses. The secondary EM responses from metallic targets are of longer duration than those created by conductive earth materials. By recording the later time EM arrivals, only the response from metallic targets is measured, rather than the field generated by the earth material.

4.2 GeoEnvironmental Soil Borings and Soil Sampling

A direct push technology (DPT) drilling rig provided by our subcontracted driller, Regional Probing Services, Inc., was used to advance soil borings across the investigation area at the locations shown on Figure 3. A utility clearance was performed by North Carolina One-Call across the investigation area prior to the soil boring program. In addition to the GPR and TDEM geophysical investigations described in Section 4.1, GEL specifically cleared each planned drilling location for underground utilities utilizing radio frequency electromagnetics instrumentation. Underground utilities were identified across much of the investigation area between the edge of pavement and the landscaping island. As shown on Figure 3, the soil borings were positioned between these utilities and eastern extent of the investigation area (i.e., the innermost existing or proposed ROW or easement). Downhole DPT equipment was decontaminated before and after each boring was constructed. Following sample collection, the borings were backfilled with bentonite chips, and the location of each boring (Figure 3) was measured using the Trimble RTK/GPS.

GEL installed each of the 7 soil borings to 10 feet below ground surface (bgs). DPT soil sampling consists of pushing/hammering a stainless-steel, 4-foot long, Macro-Core soil sampler and PVC liner to the desired sampling depth. The liner is removed from the soil sampler and cut to expose a continuous soil core for characterization and sampling. Lithologic descriptions of soil samples were recorded on soil boring logs along with other field observations. The soil boring logs are provided as Appendix B.

Subsurface soil was screened for organic vapors using a field photoionization detector (PID), and these measurements were recorded on the soil boring logs (Appendix B). The PID measures the concentration of organic compounds in the vapor space above a soil sample resulting from volatilization of organic compounds contained in the soil. To screen the soils, each sample was placed in a clean, resealable polyethylene bag. The bag was sealed, the sample was allowed to equilibrate, the probe of the PID was then inserted into the bag, and the airspace above the soil was screened for organic vapors.

After the soil core extracted from each boring was logged, the horizon with the highest field PID reading was selected for laboratory analysis. In the absence of discernable PID reading differences, the sample collected from 1 to 2 feet bgs was selected for laboratory analysis, because the NCDOT U-5873 plans and cross sections indicated this to be the most representative

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WBS Number: 46425.1.1 TIP Number: U-5873 soil horizon to be cut or otherwise handled by NCDOT at this parcel during the planned construction project.

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To collect the sample, approximately 10 grams of soil from the selected horizon were extracted using a laboratory-provided Terra-Core sampler and transferred into a laboratory-provided VOA vial containing 20 milliliters of methanol preservative and handled according to RED Lab field sampling protocol. Laboratory-quality nitrile gloves were worn by sampling personnel throughout the sampling process and changed between each sample. Upon collection, sample bottles were placed on ice in a cooler and transported to the analytical laboratory under proper chain-of-custody procedures. The samples were submitted to RED Lab and analyzed using UVF Spectrometry for the following indicator parameters to evaluate the investigation area for the presence petroleum of contaminated soil:

- Total benzene, toluene, ethylbenzene, and xylenes (BTEX) (C6-C9 fraction)
- Diesel Range Organics (DRO) (C10-C35 fraction)
- Gasoline Range Organics (GRO) (C5-C10 fraction)
- Total Petroleum Hydrocarbons (TPH) (C5-C35 fraction)
- Total Aromatics (C10-C35 fraction)
- 16 EPA Polyaromatic Hydrocarbons (PAHs) (total PAH value)
- Benzo(a)Pyrene.

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5.0 RESULTS

The results of the geophysical surveys and geoenvironmental soil boring and soil sampling program are presented below.

5.1 Geophysical Survey Results

The geophysical field investigation was successfully performed at the subject parcel. Interpretation of the GPR data was conducted in the field, with subsequent data processing including band pass filtering, background removal, horizontal smoothing, and gain adjustments. TDEM was also used to scan the project site. The TDEM survey results are displayed on Figure 4. All high TDEM responses shown on Figure 4 are correlated to surface metallic debris and/or above-ground metal structures as labeled on the figure and are not considered to be representative of "Potential USTs."

Based on the field data review, an area of reinforced concrete was identified under the asphalt along a portion of the eastern edge of the investigation area. It is suspected that this reinforced concrete may be a relic of the former gasoline dispensers. One other geophysical anomaly was identified in the northwestern portion of the investigation area, and this feature was inferred as possible metal debris not indicative of USTs or other features of environmental concern. No other electromagnetic or GPR anomalies were detected that were indicative of buried metallic objects, and so no potential anomalies were marked in the field. As stated above, all high TDEM responses shown on Figure 4 are correlated to surface metallic debris and/or above-ground metal structures as labeled on the figure.

5.2 Soil Sample Analytical Results

The field PID screening measurements are listed in Table 1. These measurements did not indicate the presence of significant organic vapors, with a highest PID measurement of 1.7 parts per million (ppm). Five borings had one or more PID measurement of 1.0 ppm above, and a sample of the soil collected from the horizon with the highest measurement from each of these borings was submitted for laboratory analysis. From the other two borings, SB-1 and SB-2, the horizon selected for laboratory analysis was collected from 1 to 2 feet bgs as discussed in Section 4.2. The selected soil samples were submitted to RED Lab for indicator-parameter UVF Spectrometry analysis to evaluate for the presence petroleum contaminated soil. A summary of the soil

sampling details is tabulated in Table 1, along with a listing of the northing and easting coordinates for the boring locations.

The UVF Spectrometry analytical results for GRO, DRO, and TPH are presented in Table 1. These results are also presented in Appendix B along with hydrocarbon fingerprint graphs prepared by RED Lab and the chain-of-custody form completed for the project. Consistent with the field PID measurement results, none of the samples contained notable concentrations of petroleum hydrocarbons. The highest reported TPH concentration (carbon range C5 through C35) was 11.8 mg/Kg in the sample from boring SB-7, and this concentration is below the NCDEQ screening levels for GRO (50 mg/Kg) and DRO (100 mg/Kg). The next highest reported TPH concentrations were 9.5 and 6.0 mg/Kg for the samples collected from borings SB-1 and SB-2, respectively. The TPH fingerprint matches for these three samples each suggests a degraded petroleum product, with the detected hydrocarbons within the DRO fraction (C10 to C35) and none within the GRO fraction (C5 to C10). These results suggest the detected TPH is either unrelated to the prior gasoline USTs/fueling station, or any small quantities of released gasoline have degraded over the past several decades, with only the heavier weight fractions remaining. The distribution of these TPH concentrations are illustrated on Figure 5.

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6.0 CONCLUSIONS

Field and office review of the geophysical field investigation data correlated all identified geophysical anomalies to surface or shallow-buried metallic debris and/or above ground metal structures. No potential anomalies were marked in the field, and the geophysical survey results suggest there are no buried metallic objects indicative of "Potential USTs" within the investigation area.

Only minor concentrations of petroleum hydrocarbons were identified in soil samples, with the highest concentrations (11.8, 9.5, and 6.0 mg/Kg) results well below NCDEQ screening levels. The TPH fingerprint matches for these three samples each suggests a degraded petroleum product, with the detected hydrocarbons within the DRO fraction (C10 to C35) and none within the GRO fraction (C5 to C10). As petroleum products degrade, the concentrations of the lightest hydrocarbons decrease first. Therefore, these results suggest the detected TPH is either unrelated to the prior gasoline USTs/fueling station, or any small quantities of released gasoline have degraded over the past several decades, with only the heavier weight fractions remaining.

7.0 RECOMMENDATIONS

No additional environmental investigation of the soil at the site is recommended at this time. Although geophysical methods provide a high level of assurance for the location of subsurface objects, the possibility exists that not all features can or will be identified. Therefore, due caution should be used when performing subsurface excavation across the entire investigation area.

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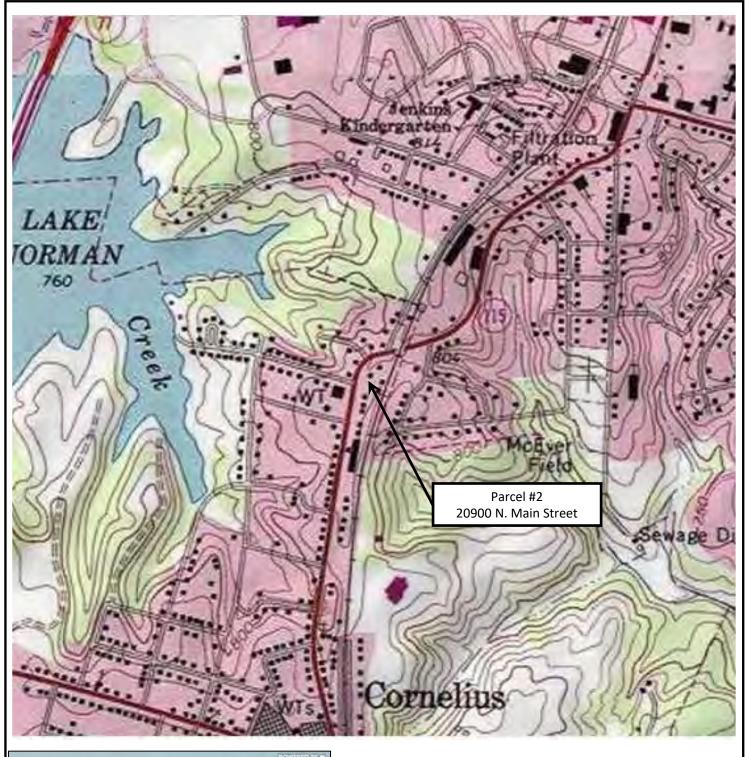
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FIGURES

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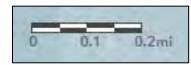
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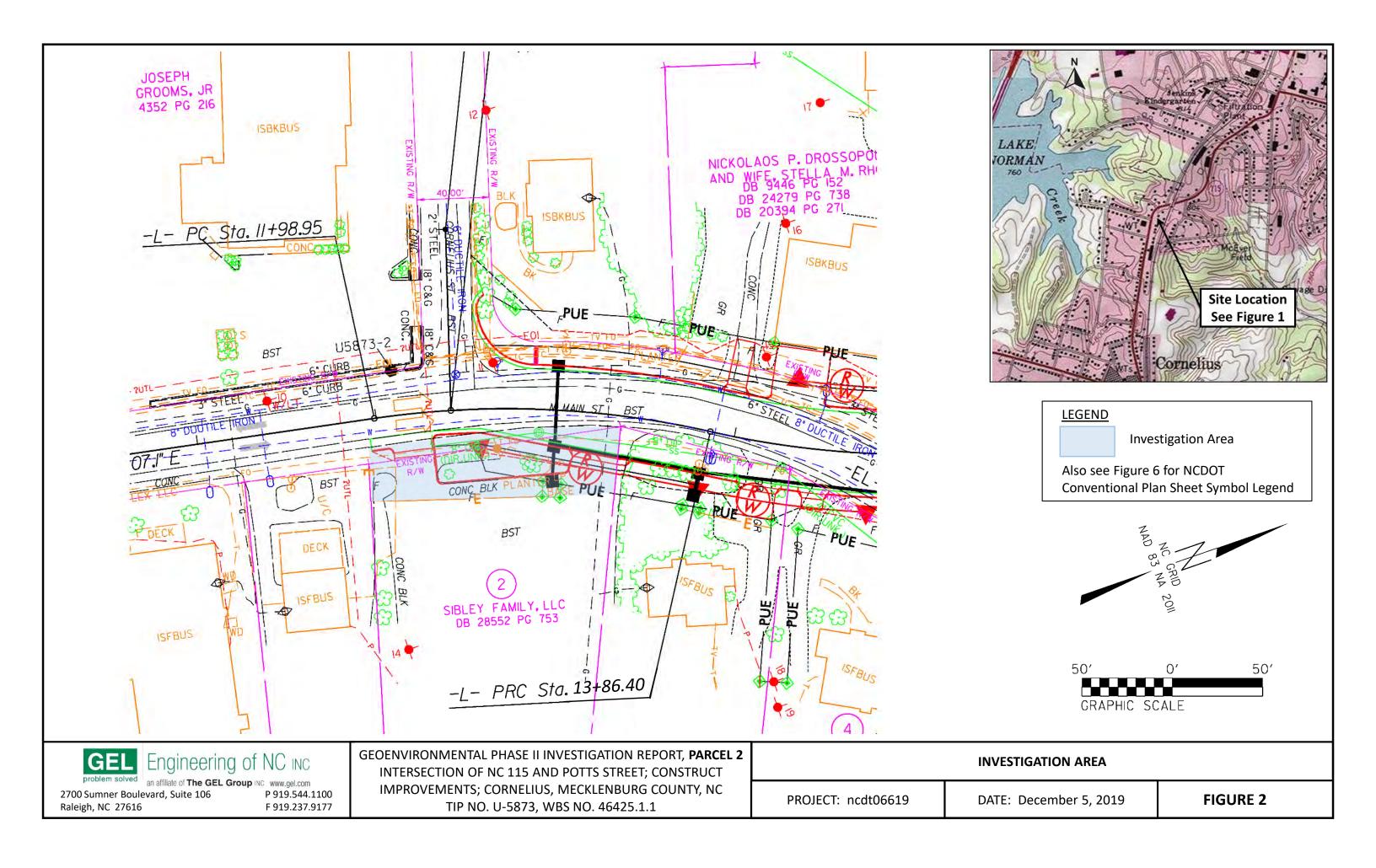


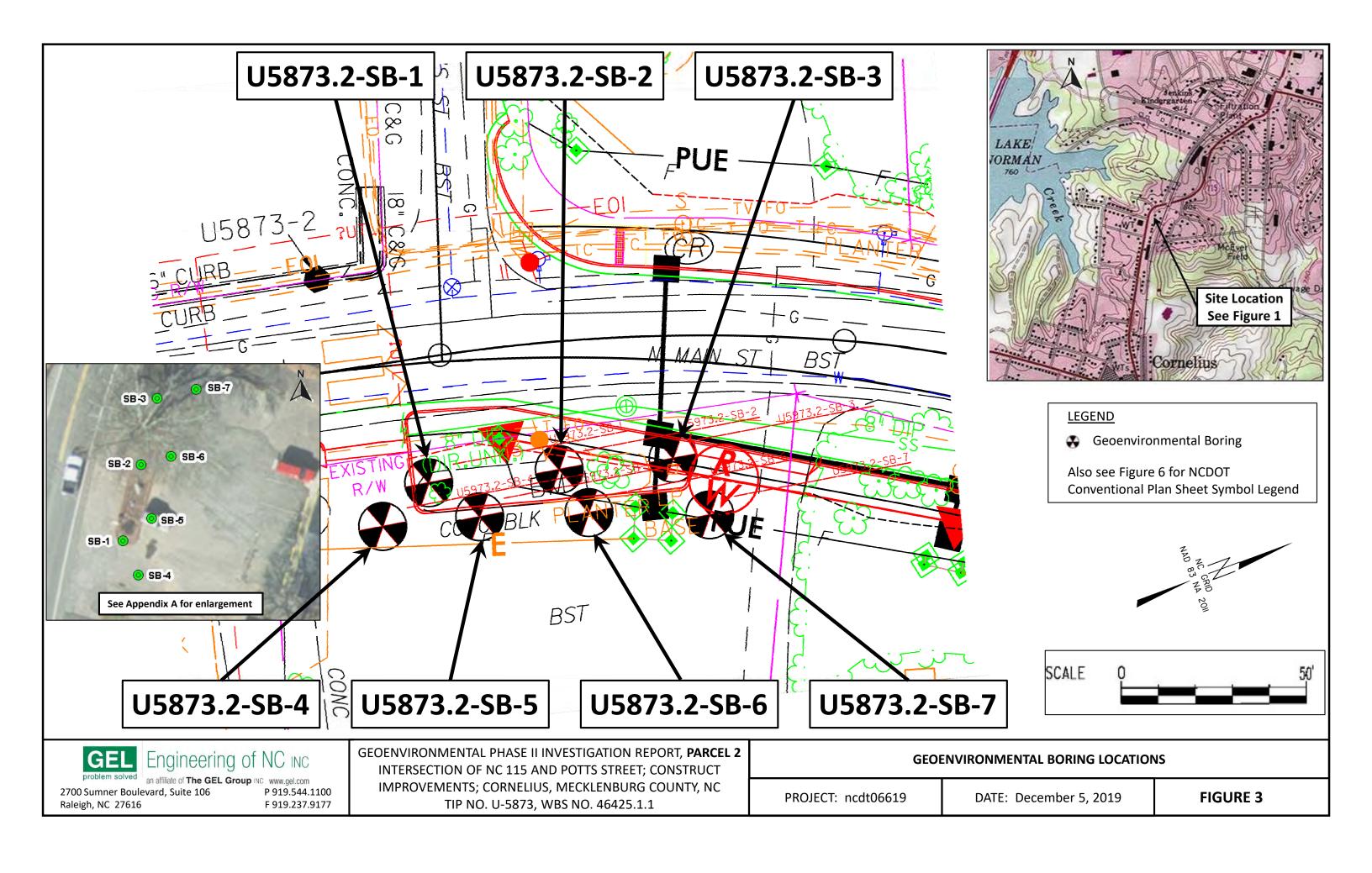
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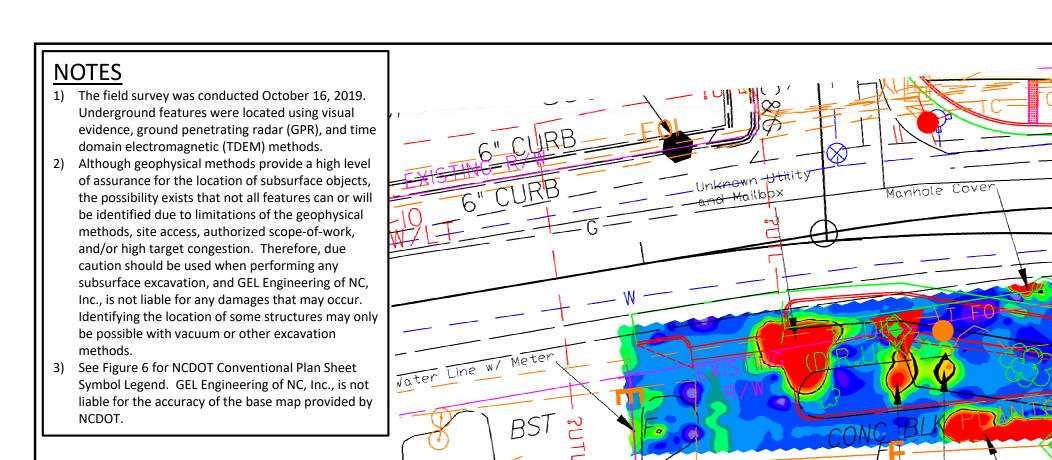
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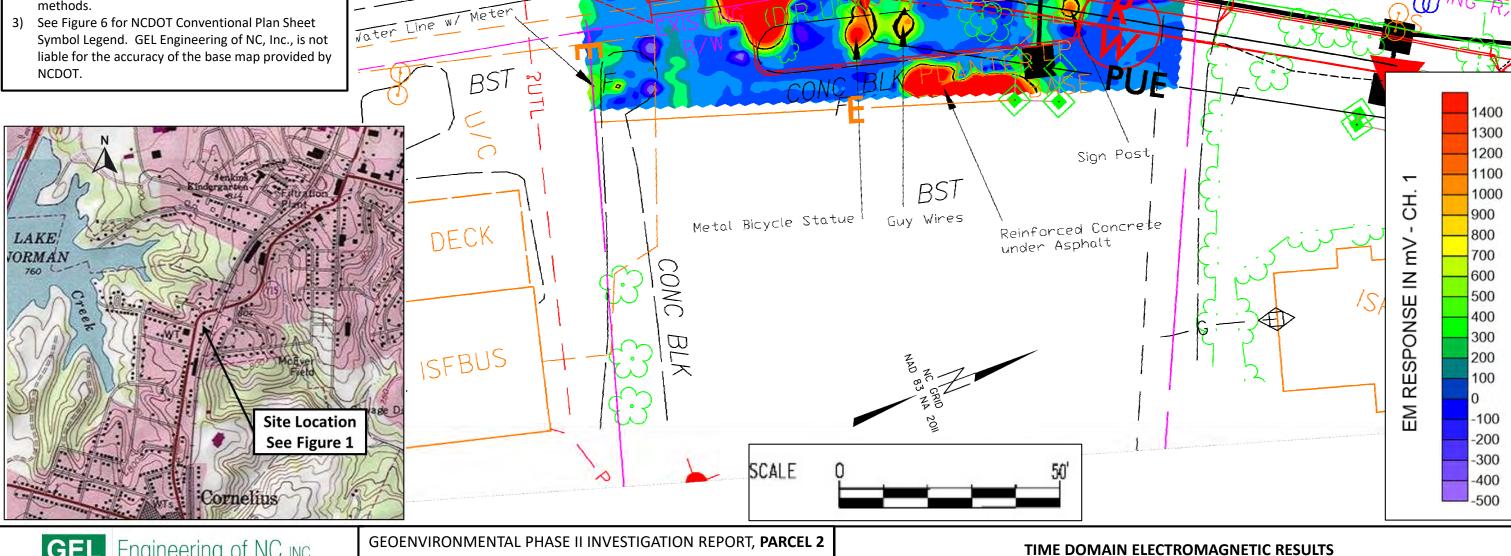
PROJECT: ncdt06619
GEOENVIRONMENTAL PHASE II
INVESTIGATION REPORT, PARCEL 2
INTERSECTION OF NC 115 AND POTTS
STREET; CONSTRUCT IMPROVEMENTS
CORNELIUS, MECKLENBURG COUNTY, NC
TIP NO. U-5873, WBS NO. 46425.1.1

DATE: December 5, 2019	
SITE LOCATION MAP	FIGURE
DRAWN BY: ADS	









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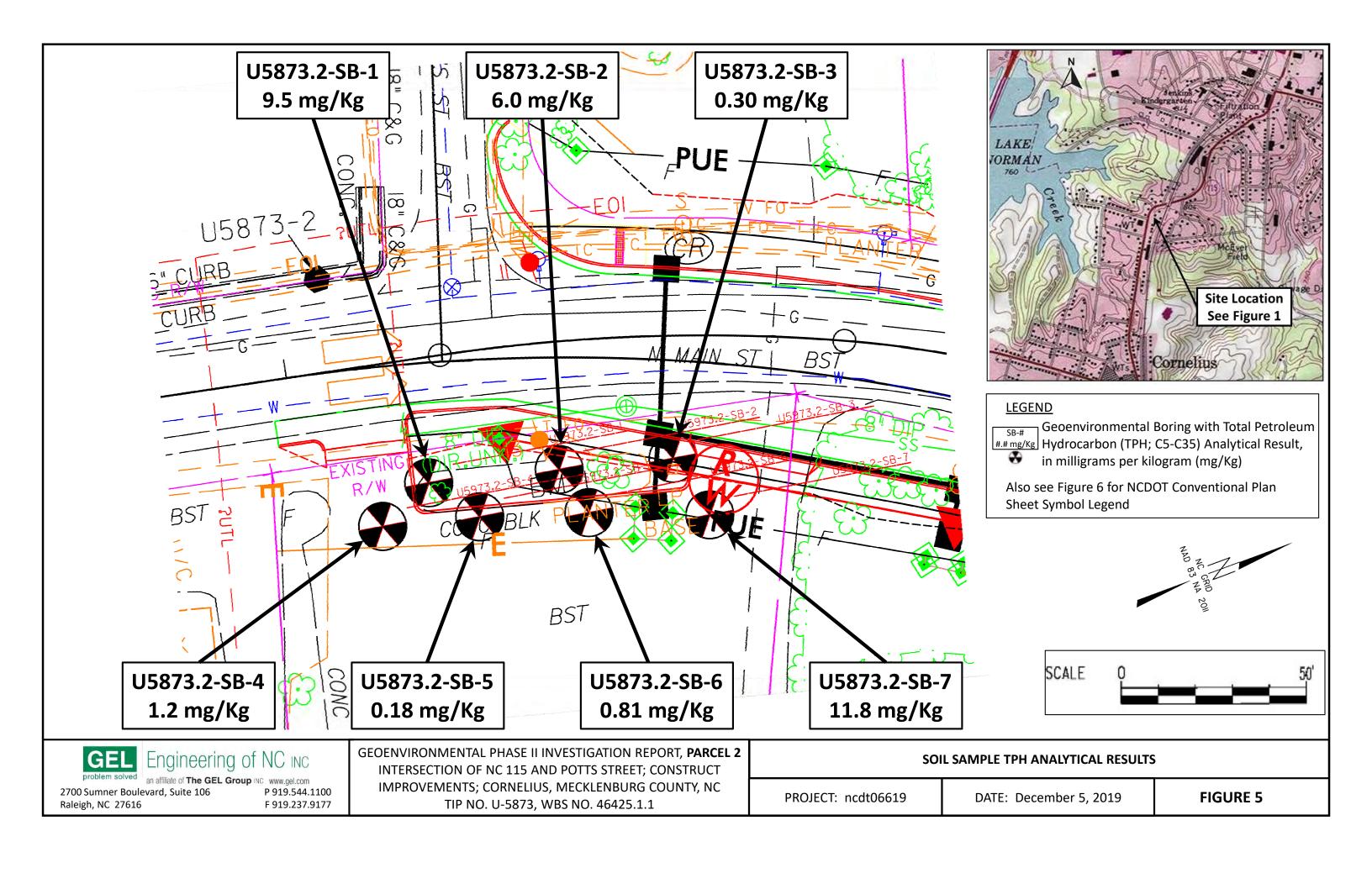
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INTERSECTION OF NC 115 AND POTTS STREET; CONSTRUCT IMPROVEMENTS; CORNELIUS, MECKLENBURG COUNTY, NC TIP NO. U-5873, WBS NO. 46425.1.1

Geophysical Anomaly, inferred

, possible metallic debris

PROJECT: ncdt06619 DATE: December 5, 2019 FIGURE 4



BOUNDARIES AND PROPERTY:	CONVENTION, Note: Not to S		AN SHEEL SYMBC S.U.E. = Subsurface Utility Engineering		WATER:	L	by NCDOT
State Line			Andrew Commission of the Commi		Water Manhole	- · · · · · · · · · · · · · · · · · · ·	
County Line	RAILROADS:				Water Meter	- 0	
Township Line			Orchard	0000	Water Valve	- ×	
City Line ————————————————————————————————————	Standard Gauge	SA FRANCISMON AS	Vineyard	Vennyana	Water Hydrant —	- ø	
Reservation Line	RR Signal Milepost	aper s		100.00	U/G Water Line LOS B (S.U.E*)		
Property Line ————————————————————————————————————	Switch	285	EXISTING STRUCTURES:		U/G Water Line LOS C (S.U.E*)		
Existing Iron Pin	RR Abandoned		MAJOR:		U/G Water Line LOS D (S.U.E*)		
Property Corner —	RR Dismantled		Bridge, Tunnel or Box Culvert	EUND	Above Ground Water Line	A/G Water	
Property Monument	RIGHT OF WAY:	4	Bridge Wing Wall, Head Wall and End Wall -	DONC WW			
Parcel/Sequence Number (23)	Baseline Control Point	•	MINOR:		TV: TV Pedestal	(2)	
Existing Fence Line ————————————————————————————————————	Existing Right of Way Marker	\triangle	Head and End Wall	CONC HW	TV Tower —	/2)	
Proposed Woven Wire Fence	Existing Right of Way Line		Pipe Culvert		U/G TV Cable Hand Hole	(CX	
Proposed Chain Link Fence	Proposed Right of Way Line		Footbridge				
Proposed Barbed Wire Fence	Proposed Right of Way Line with	(8)	Drainage Box: Catch Basin, DI or JB	(20)	U/G TV Cable LOS B (S.U.E.*)		
Existing Wetland Boundary	Iron Pin and Cap Marker		Paved Ditch Gutter		U/G TV Cable LOS C (S.U.E.*)		
Proposed Wetland Boundary	Proposed Right of Way Line with Concrete or Granite RW Marker		Storm Sewer Manhole	(3)	U/G TV Cable LOS D (S.U.E.*)		
Existing Endangered Animal Boundary	Proposed Control of Access Line with	A 6	Storm Sewer		U/G Fiber Optic Cable LOS B (S.U.E.*)		
Existing Endangered Plant Boundary	Concrete C/A Marker		UTILITIES:		U/G Fiber Optic Cable LOS C (S.U.E.*)		
Existing Historic Property Boundary	Existing Control of Access				U/G Fiber Optic Cable LOS D (S.U.E.*)	7 16	
Known Contamination Area: Soil	Proposed Control of Access		POWER:	<u> </u>	GAS:		
	Existing Easement Line	——E——	Existing Power Pole	1	Gas Valve	< 8	
	Proposed Temporary Construction Easement -	——E	Proposed Power Pole	0	Gas Meter	< 0	
	Proposed Temporary Drainage Easement	TDE	Existing Joint Use Pole	1	U/G Gas Line LOS B (S.U.E.*)	-	
Potential Contamination Area: Water	Proposed Permanent Drainage Easement —	PDE	Proposed Joint Use Pole	-0-	U/G Gas Line LOS C (S.U.E.*)	-	
Contaminated Site: Known or Potential	Proposed Permanent Drainage / Utility Easement	it——DUE——	Power Manhole	(0)	U/G Gas Line LOS D (S.U.E.*)		
BUILDINGS AND OTHER CULTURE:	Proposed Permanent Utility Easement —		Power Line Tower		Above Ground Gas Line		
Gas Pump Vent or U/G Tank Cap	Proposed Temporary Utility Easement		Power Transformer	M	CICUTION COLUMN		
Sign	Proposed Aerial Utility Easement	AUE-	U/G Power Cable Hand Hole		SANITARY SEWER:		
Well	Proposed Permanent Easement with		H-Frame Pole	•••	Sanitary Sewer Manhole	9	
Small Mine	Iron Pin and Cap Marker	•	U/G Power Line LOS B (S.U.E.*)		Sanitary Sewer Cleanout	6	
Foundation	ROADS AND RELATED FEATURE	ES:	U/G Power Line LOS C (S.U.E.*)		U/G Sanitary Sewer Line	&/C Sonitors Season	
Area Outline	Existing Edge of Pavement		U/G Power Line LOS D (S.U.E.*)	Р	Above Ground Sanitary Sewer		
Cemetery	Existing Curb		TELEPHONE:		SS Forced Main Line LOS B (S.U.E.*)		
Building —	Proposed Slope Stakes Cut			-	SS Forced Main Line LOS C (S.U.E.*)		
School	Proposed Slope Stakes Fill		Existing Telephone Pole		SS Forced Main Line LOS D (S.U.E.*)		
Church	Proposed Curb Ramp		Proposed Telephone Pole	-0-	MISCELLANEOUS:		
Dam	Existing Metal Guardrail		Telephone Manhole	(D)	Utility Pole	102	
HYDROLOGY:	Proposed Guardrail	TITI	Telephone Pedestal				
Stream or Body of Water	Existing Cable Guiderail	п п	Telephone Cell Tower	*	Utility Pole with Base		
Hydro, Pool or Reservoir	Proposed Cable Guiderail	n n n n	U/G Telephone Cable Hand Hole	EIG.	Utility Located Object	0	
Jurisdictional Stream	Equality Symbol		U/G Telephone Cable LOS B (S.U.E.*)		Utility Traffic Signal Box		
Buffer Zone 1			U/G Telephone Cable LOS C (S.U.E.*)		Utility Unknown U/G Line LOS B (S.U.E.*)	- run.	
Buffer Zone 2az 2_	Pavement Removal VEGETATION:		U/G Telephone Cable LOS D (S.U.E.*)		U/G Tank; Water, Gas, Oil ——————		
Flow Arrow		100	U/G Telephone Conduit LOS B (S.U.E.*) —		Underground Storage Tank, Approx. Loc. —	(UST)	
Disappearing Stream	Single Tree	£13	U/G Telephone Conduit LOS C (S.U.E.*)		A/G Tank; Water, Gas, Oil	-	
Spring —	Single Shrub	0	U/G Telephone Conduit LOS D (S.U.E.*)-	Т-	Geoenvironmental Boring	- ↔	
Wetland ±	Hedge —		U/G Fiber Optics Cable LOS B (S.U.E.*) —		U/G Test Hole LOS A (S.U.E.*)	•	
Proposed Lateral, Tail, Head Ditch	Woods Line	- milministration	U/G Fiber Optics Cable LOS C (S.U.E.*)		Abandoned According to Utility Records —	- AATUR	
False Sump —			U/G Fiber Optics Cable LOS D (S.U.E.*)	170	End of Information —	E.O.I.	

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eigh, NC 27616 F 919.237.9177 2700 Sumner Boulevard, Suite 106

Raleigh, NC 27616

IMPROVEMENTS; CORNELIUS, MECKLENBURG COUNTY, NC TIP NO. U-5873, WBS NO. 46425.1.1

PROJECT: ncdt06619

DATE: December 5, 2019

FIGURE 6

TABLE

December 5, 2019

fc: ncdt06619

TIP Number: U-5873

December 5, 2019 WBS Number: 46425.1.1 TIP Number: U-5873

TABLE 1. SOIL SAMPLE FIELD SCREENING AND LABORATORY ANALYTICAL RESULTS SUMMARY (Page 1 of 2)

				QED UVF Results (mg/Kg)				
Soil Boring ID		Donth	DID Doodin-	GRO	DRO			
(Northing/	Date	Depth	PID Reading	(C5-C10)	(C10-C35)	TPH		
Easting)		(feet bgs)	(ppm)	(action	(action	(C5-C35)		
	<i>5,</i>			level=50)	level=100)			
		0-1	0.0					
		1-2	0.2	<0.8	9.5	9.5		
		2-3	0.2					
		3-4	0.3					
U5873.2-SB-1	10/16/2019	4-5	0.5					
		5-6	0.2					
(639082.893 /		6-7	0.6					
1447162.918)		7-8	0.8					
		8-10	0.9					
		0-1	0.8					
		1-2	0.7	<0.85	6.0	6.0		
		2-3	0.6					
		3-4	0.1					
U5873.2-SB-2	10/16/2019	4-5	0.6					
		5-6	0.4					
(639116.721 /		6-7	0.5					
1447171.118)		7-8	0.7					
		8-10	0.8					
		0-1	0.9					
		1-2	0.5					
		2-3	1.0	<0.30	0.30	0.30		
	10/10/2010	3-4	0.7					
U5873.2-SB-3	10/16/2019	4-5	0.6					
1620446 244 /		5-6	0.8					
(639146.214 /		6-7	0.8					
1447178.386)		7-8	0.6					
		8-10	0.5					
		0-1 1-2	1.2 0.9					
		2-3 3-4	1.1 1.6	<0.75	1.2	1.2		
U5873.2-SB-4	10/16/2019		1.6	<u. 5<="" td=""><td>1.2</td><td>1.2</td></u.>	1.2	1.2		
U30/3.2-3D-4	10/10/2019	4-5 5-6	0.8					
(639067.515 /		6-7	1.0					
1447169.786)		7-8	0.8					
177/103./60)		8-10	1.0					
		0-1	1.0					
		1-2	0.5					
		2-3	1.7	<0.30	<0.30	0.18		
		3-4	0.9	٧٠.٥٥	٠٥.50	0.10		
U5873.2-SB-5	10/16/2019	4-5	0.9					
030,3.2 30 3	10, 10, 2019	5-6	0.6					
(639092.658 /		6-7	0.9					
1447175.944)		7-8	0.8					
1		8-10	1.6					

December 5, 2019 WBS Number: 46425.1.1 TIP Number: U-5873

fc: ncdt06619

TABLE 1. SOIL SAMPLE FIELD SCREENING AND LABORATORY ANALYTICAL RESULTS SUMMARY (Page 2 of 2)

				QED I	JVF Results (m	ng/Kg)
Soil Boring ID	Date	Depth (feet bgs)	PID Reading (ppm)	GRO (C5-C10) (action level=50)	DRO (C10-C35) (action level=100)	TPH (C5-C35)
		0-1	0.8			
		1-2	1.3	<0.50	0.81	0.81
		2-3	0.5			
		3-4	0.6			
U5873.2-SB-6	10/16/2019	4-5	0.9			
		5-6	0.6			
(639120.343 /		6-7	0.7			
1447184.549)		7-8	0.9			
		8-10	1.2			
		0-1	1.3	<0.38	11.8	11.8
		1-2	0.6			
		2-3	0.7			
		3-4	0.8			
U5873.2-SB-7	10/16/2019	4-5	0.6			
			0.6			
(639150.395 /		6-7	0.7			
1447195.785)		7-8	0.8			
		8-10	0.6			

DRO = Diesel range organics

mg/Kg = milligrams per kilogram

GRO = Gasoline range organics

ppm = parts per million

TPH = Total petroleum hydrocarbons

feet bgs = feet below ground surface

N/A = not applicable

GRO and DRO action levels per 7/26/16 NCDEQ UST Corrective Action Branch memornadum

APPENDIX A

December 5, 2019

fc: ncdt06619

TIP Number: U-5873

WBS Number: 46425.1.1

SITE PHOTOGRAPHS



Photograph 1. Aerial photograph showing GeoEnvironmental soil boring locations.

TIP Number: U-5873



Photograph 2. Paved and landscaped investigation area.



Photograph 3. GeoEnvironmental soil boring location U5873.2-SB-1.

TIP Number: U-5873



Photograph 4. GeoEnvironmental soil boring location U5873.2-SB-2.



Photograph 5. GeoEnvironmental soil boring location U5873.2-SB-3.

TIP Number: U-5873



Photograph 6. GeoEnvironmental soil boring location U5873.2-SB-4.



Photograph 7. GeoEnvironmental soil boring location U5873.2-SB-5.

TIP Number: U-5873



Photograph 8. GeoEnvironmental soil boring location U5873.2-SB-6.



Photograph 9. GeoEnvironmental soil boring location U5873.2-SB-7.

TIP Number: U-5873

APPENDIX B

December 5, 2019

fc: ncdt06619

TIP Number: U-5873

WBS Number: 46425.1.1

SOIL BORING LOGS

GEL Engineering, of NC, Inc., Raleigh, North Carolina

Project Name: NCDOT Intersection of NC 115 and Potts Street; Construct Improvements,

Cornelius, Mecklenburg County, NC;

<u>TIP No. U- 5873, WBS No. 46425.1.1</u> GEL Project Code: <u>NCDT06619</u>

Parcel Address: Parcel 2, 20900 N. Main St. Cornelius, NC 28031 (The Cycle Path)

Drilling Date: October 16, 2019 Drilling Contractor: Regional Probing Services, Inc.; NC Cert No. 3322A

Double DID Coll December 1									
Depth (ft bgs)	PID (ppm)	Soil Description (depths are in feet below ground surface [ft bgs])	Laboratory Analysis						
		BORING ID: U5873.2-SB-1	_						
0-1	0.0	Sandy CLAY (70% clay, 30% medium grained sand), orange, dry, mica present.							
1-2	0.2	Clayey SAND (40% clay, 30% medium grained sand, 30% fine grained sand), orangish brown, dry.	•						
2-3	0.2	Clayey SAND (40% clay, 30% medium grained sand, 30% fine grained sand), orangish brown, dry.							
3-4	0.3	Clayey SAND (40% clay, 30% medium grained sand, 30% fine grained sand), orangish brown, dry.							
4-5	0.5	Sandy CLAY (80% clay, 20% fine grained sand), orange, dry.							
5-6	0.2	Sandy CLAY (80% clay, 20% fine grained sand), orange, dry.							
6-7	0.6	Sandy CLAY (60% clay, 20% medium grained sand, 20% fine grained sand), orange, dry.							
7-8	0.8	Sandy CLAY (60% clay, 20% medium grained sand, 20% fine grained sand), orange, dry, mica present.							
8-10	0.9	Sandy CLAY (80% clay, 20% fine grained sand), orange, dry, mica present.							
		BORING ID: U5873.2-SB-2							
0-1	0.8	Clayey SAND (30% clay, 30% fine grained sand, 20% coarse grained sand, 20% medium grained sand), orange, dry, mica present.							
1-2	0.7	Clayey SAND (30% clay, 30% fine grained sand, 20% coarse grained sand, 20% medium grained sand), orange, dry.	•						
2-3	0.6	Clayey SAND (30% clay, 30% fine grained sand, 20% coarse grained sand, 20% medium grained sand), orange, dry.							
3-4	0.1	Clayey SAND (30% clay, 30% fine grained sand, 20% coarse grained sand, 20% medium grained sand), orange, dry.							
4-5	0.6	Sandy CLAY (80% clay, 20% fine grained sand), orange, dry.							
5-6	0.4	Sandy CLAY (80% clay, 20% fine grained sand), orange, dry.							
6-7	0.5	Sandy CLAY (80% clay, 20% fine grained sand), orange, dry.							
7-8	0.7	Sandy CLAY (80% clay, 20% fine grained sand), orange, dry, mica present.							
8-10	0.8	Sandy CLAY (70% clay, 30% fine grained sand), orange, dry, mica present.							

GEL Engineering, of NC, Inc., Raleigh, North Carolina

Project Name: NCDOT Intersection of NC 115 and Potts Street; Construct Improvements,

Cornelius, Mecklenburg County, NC;

<u>TIP No. U- 5873, WBS No. 46425.1.1</u> GEL Project Code: <u>NCDT06619</u>

Parcel Address: Parcel 2, 20900 N. Main St. Cornelius, NC 28031 (The Cycle Path)

Drilling Date: October 16, 2019 Drilling Contractor: Regional Probing Services, Inc.; NC Cert No. 3322A

Depth (ft bgs)	PID (ppm)	Soil Description (depths are in feet below ground surface [ft bgs])						
	-	BORING ID: U5873.2-SB-3						
0-1	0.9	Clayey SAND (30% Clay, 30% coarse grained sand, 20% medium grained sand, 20% fine grained sand), orange, dry, asphalt present.						
1-2	0.5	Clayey SAND (30% Clay, 30% coarse grained sand, 20% medium grained sand, 20% fine grained sand), orange, dry.						
2-3	1.0	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry.	•					
3-4	0.7	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry.						
4-5	0.6	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry.						
5-6	0.8	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry.						
6-7	0.8	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry, mica present.						
7-8	0.6	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry, mica present.						
8-10	0.5	Clayey SAND (60% fine grained sand, 40% clay), orange, dry, mica present.						
		BORING ID: U5873.2-SB-4						
0-1	1.2	Sandy CLAY (80% clay, 10% medium grained sand, 10% fine grained sand), orangish brown, slight moisture, mica present.						
1-2	0.9	Sandy CLAY (80% clay, 10% medium grained sand, 10% fine grained sand), orangish brown, slight moisture.						
2-3	1.1	Sandy CLAY (80% clay, 10% medium grained sand, 10% fine grained sand), orangish brown, slight moisture.						
3-4	1.6	Sandy CLAY (80% clay, 10% medium grained sand, 10% fine grained sand), orangish brown, dry.	•					
4-5	1.0	Sandy CLAY (80% clay, 20% fine grained sand), orange, dry.						
5-6	0.8	Sandy CLAY (80% clay, 20% fine grained sand), orange, dry.						
6-7	1.0	Sandy CLAY (80% clay, 20% fine grained sand), orange, dry.						
7-8	0.8	Sandy CLAY (80% clay, 20% fine grained sand), orange, dry, mica present.						
8-10	1.0	Sandy CLAY (60% clay, 30% fine grained sand, 10% medium grained sand), orange, dry, mica present.						

GEL Engineering, of NC, Inc., Raleigh, North Carolina

Project Name: NCDOT Intersection of NC 115 and Potts Street; Construct Improvements,

Cornelius, Mecklenburg County, NC;

<u>TIP No. U- 5873, WBS No. 46425.1.1</u> GEL Project Code: <u>NCDT06619</u>

Parcel Address: Parcel 2, 20900 N. Main St. Cornelius, NC 28031 (The Cycle Path)

Drilling Date: October 16, 2019 Drilling Contractor: Regional Probing Services, Inc.; NC Cert No. 3322A

Depth (ft bgs)	PID (ppm)	Soil Description (depths are in feet below ground surface [ft bgs])						
	-	BORING ID: U5873.2-SB-5	<u>.</u>					
0-1	1.0	Sandy CLAY (70% clay, 15% fine grained sand, 10% medium grained sand, 5% coarse grained sand), orange, dry, mica present.						
1-2	0.5	Sandy CLAY (70% clay, 15% fine grained sand, 10% medium grained sand, 5% coarse grained sand), orange, dry.						
2-3	1.7	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry.	•					
3-4	0.9	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry.						
4-5	0.9	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry.						
5-6	0.6	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry, mica present.						
6-7	0.9	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry, mica present.						
7-8	0.8	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry, mica present.						
8-10	1.6	Sandy CLAY (60% clay, 20% medium grained sand, 20% fine grained sand), orange, dry, mica present.						
		BORING ID: U5873.2-SB-6						
0-1	0.8	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry.						
1-2	1.3	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry.	•					
2-3	0.5	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry.						
3-4	0.6	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry.						
4-5	0.9	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry.						
5-6	0.6	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry, mica present.						
6-7	0.7	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry, mica present.						
7-8	0.9	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry, mica present.						
8-10	1.2	Sandy CLAY (60% clay, 20% medium grained sand, 20% fine grained sand), orange, dry, mica present						

GEL Engineering, of NC, Inc., Raleigh, North Carolina

Project Name: NCDOT Intersection of NC 115 and Potts Street; Construct Improvements,

Cornelius, Mecklenburg County, NC;

<u>TIP No. U- 5873, WBS No. 46425.1.1</u> GEL Project Code: <u>NCDT06619</u>

Parcel Address: Parcel 2, 20900 N. Main St. Cornelius, NC 28031 (The Cycle Path)

Drilling Date: October 16, 2019 Drilling Contractor: Regional Probing Services, Inc.; NC Cert No. 3322A

Depth (ft bgs)	PID (ppm)	Soil Description (depths are in feet below ground surface [ft bgs])	Laboratory Analysis
		BORING ID: U5873.2-SB-7	
0-1	1.3	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), dark orange, dry.	•
1-2	0.6	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), dark orange, dry.	
2-3	0.7	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), dark orange, dry.	
3-4	0.8	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), dark orange, dry.	
4-5	0.6	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry, mica present.	
5-6	0.6	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry, mica present.	
6-7	0.7	Sandy CLAY (70% clay, 15% medium grained sand, 15% fine grained sand), orange, dry, mica present.	
7-8	0.8	Sandy CLAY (60% clay, 20% medium grained sand, 20% fine grained sand), orange, dry, mica present.	
8-10	0.6	Sandy CLAY (60% clay, 20% medium grained sand, 20% fine grained sand), orange, dry, mica present.	

APPENDIX C

December 5, 2019

fc: ncdt06619

TIP Number: U-5873

WBS Number: 46425.1.1

LABORATORY ANALYTICAL REPORT AND CHAIN OF CUSTODY RECORD FOR SOIL SAMPLES





106.3 %

Hydrocarbon Analysis Results

 Client:
 GEL ENGINEERING
 10/16/19-10/17/19

 Address:
 Samples taken
 10/16/19-10/17/19

Samples analysed Friday, October 18, 2019

Final FCM QC Check OK

Contact: ANDREW STAHL Operator CAROLINE STEVENS

Project: NCDOT 06619

													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	ВаР	% Ratios		% Ratios		% Ratios		•	HC Fingerprint Match
										C5 - C10	C10 - C18	C18					
S	U5873.2-1	32.0	<0.8	<0.8	9.5	9.5	4.9	<0.26	< 0.032	0	67.3	32.7	Deg.PHC 84.3%,(FCM)				
S	U5873.2-2	34.0	<0.85	<0.85	6	6	3.1	<0.27	<0.034	0	67.2	32.8	Deg.PHC 81.5%,(FCM)				
S	U5873.2-3	12.0	<0.3	<0.3	0.3	0.3	0.18	<0.1	<0.012	0	59.1	40.9	Deg.PHC 75.5%,(FCM)				
S	U5873.2-4	29.9	<0.75	<0.75	1.2	1.2	0.76	<0.24	< 0.03	0	76.6	23.4	Deg Fuel 95%,(FCM)				
S	U5873.2-5	12.0	<0.3	<0.3	<0.3	0.18	0.18	<0.1	<0.012	0	38.9	61.1	Residual HC				
S	U5873.2-6	20.0	<0.5	<0.5	0.81	0.81	0.49	<0.16	<0.02	0	65.3	34.7	Deg.PHC 78.9%,(FCM)				
S	U5873.2-7	15.0	<0.38	<0.38	11.8	11.8	10.3	0.38	<0.015	0	72.8	27.2	Deg Fuel 75.6%,(FCM)				

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

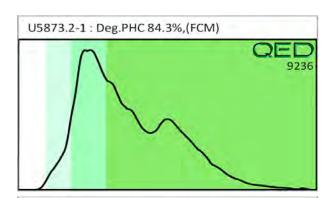
B = Blank Drift : (SBS)/(LBS) = Site Specific or Library Background Subtraction applied to result : (BO) = Background Organics detected : (OCR) = Outside cal range : (M) = Modifed Result.

% Ratios estimated aromatic carbon number proportions : HC = Hydrocarbon : PHC = Petroleum HC : FP = Fingerprint only. Data generated by HC-1 Analyser

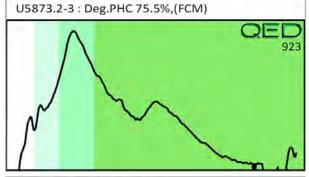
OK

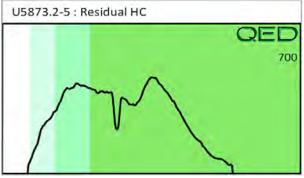
Initial Calibrator QC check

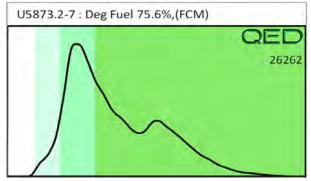
Friday, October 18, 2019

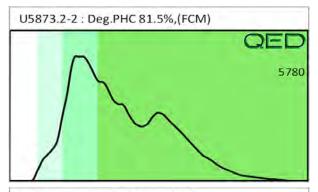


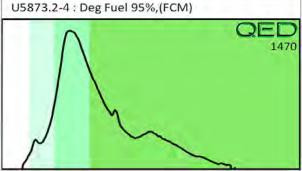
Project: NCDOT 06619

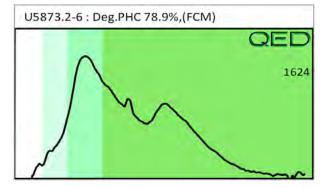












Client Name:	GEL Engineering
Address:	
Contact:	Andrew Stahl
Project Ref.:	NCD T 06619
Email:	Andrew. Stonl @ gel. com
Phone #:	919-819-2510
Collected by:	398



RED Lab, LLC 5598 Marvin K Moss Lane MARBIONC Bldg, Suite 2003 Wilmington, NC 28409

Each sample will be analyzed for BTEX, GRO, DRO, TPH, PAH total aromatics and BaP

Sample Collection	TAT Requested		70.70					15	
Date/Time	24 Hour	48 Hour	Initials	Sample ID		Total Wt.	Tare Wt.	Sample Wt.	
10-16-19/1345		X	BPB	U5873.	2-1		55-6	45.0	10
1 1400		X	BPB	U5873.	2-2		54.5	45-1	94
1415		X	BPB	U5873.	2-3		55.1	45.1	10
1435		X	BOB	U5873.	2-4		55-6	44.9	10.7
1500		X	BPB	U5873	2-5		53.0	44.8	79
1515		X	BPB	U5873.	2-6		53.6	45-1	95
V 1530		X	BPB	U5873,	2-7		56.0	44-7	13.3
10-17-19/0800		X	BPB	()5873.	6-1		56-0	44.8	114
0820		X	BIB	U5873.	6-13		56.9	44.6	12.3
0840		X	BPB	U5873.	6-4		56.5	44.8	11.7
0855		×	BPB	U5873.	6-2		56.5	45.0	11.5
0910		X	BPB	U5873.	6-5		55.4	44.6	109
0940		×	BPB	U5873-	6-6		\$5.5	44.7	10.8
1000		×	BPB	U5873	6-8		54.5	44.5	10
1020		×	13813	U5873.	6-9		56.3	44.8	11.5
1055		X	BPR	U5873,	6-10		56.3	45.0	11.3
1115		X	BPB	U5873	6-7		566	45,0	11.6
1130		×	BOB	U5873,	6 - 11		56.6	44.7	119
V 1195		X	BPB	U 5873-1	5-12		54.2	44.5	9.7
Comments:					RED Lab USE ONLY				
Relinquished by		Date/Time		Accepted by Date/Time			(19		
Bris Box		12-17-19/ 1300							
Relinquished by			Date/Time		Accepted by	Date/Time	1		
					CCS	06:11 19/18/101		R	139