

August 10, 2007

Mr. Don Moore
North Carolina Department of Transportation
Geotechnical Engineering Unit
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Reference: Preliminary Site Assessment
Neb King Properties, Inc. (Parcel #011)
1030 N. Main Street
Roxboro, Person County, North Carolina
NCDOT Project R-2241A
WBS Element 34406.1.1
Earth Tech Project No. 100407

Dear Mr. Moore:

Earth Tech of North Carolina, Inc., (Earth Tech) has completed the Preliminary Site Assessment conducted at the above-referenced property. The work was performed in accordance with the Technical and Cost proposal dated June 6, 2007, and the North Carolina Department of Transportation's (NCDOT's) Notice to Proceed dated June 6, 2007. Activities associated with the assessment consisted of conducting a geophysical investigation, collecting soil samples for laboratory analysis, and reviewing applicable North Carolina Department of Environment and Natural Resources (NCDENR) records. The purpose of this report is to document the field activities, present the laboratory analyses, and provide recommendations regarding the property.

Location and Description

The Neb King Properties, Inc. (Parcel #011) is located at 1030 N. Main Street in Roxboro, North Carolina. The property is situated on the southeast quadrant of the intersection of N. Main Street (SR 1601) and Virgilina Road (NC 49) (Figure 1). Based on information supplied by the NCDOT and the site visit, Earth Tech understands that the site is an active gas station/convenience store (Neb King, Inc.) where five underground storage tanks (USTs) and four above ground storage tanks (ASTs) are located. The available information indicates that as many as 13 USTs have been removed from the site between 1968 and 1999. The existing USTs include two 10,000-gallon gasoline tanks, one 10,000-gallon and one 8,000-gallon diesel fuel tanks, and one 8,000-gallon kerosene tank. The USTs removed from the property included tanks ranging from 550- to 8,000-gallons in size and contained gasoline, diesel fuel, kerosene, and unknown substances, presumably petroleum products. Two structures are located on the property. The convenience store is a single-story block building with an asphalt parking lot. Three pump islands are on the property, two between the building and Main Street/Virgilina Road and one at the rear of the property that

dispenses from the ASTs. The existing USTs are located adjacent to the building on its south side. South of the convenience store is an office complex/auto repair shop. Personnel at the complex have indicated that no USTs have existed at the office building. Earth Tech was advised that the proposed right-of-way will affect only the two pump islands near the road. As a result, the NCDOT requested a Preliminary Site Assessment.

Earth Tech reviewed the North Carolina Department of Environment and Natural Resources (NCDENR) Incident Management database and incident number 10784 was assigned to the site. According to the Soil Vapor Survey prepared by ATEC Environmental Consultants dated January 24, 1989, 23 hand-augered soil borings were advanced at the site to evaluate the horizontal and vertical extent of potential petroleum-contaminated soil. The report findings concluded that soil vapor readings were sufficiently high in most of the borings to assume petroleum contaminated soils. No laboratory analyses were performed to verify this conclusion.

In a report dated August 21, 1989, ATEC Environmental Consultants documented environmental conditions at the site and included a summary of environmental activities at the property. The apparent event that instigated the soil vapor survey was free-phase gasoline in a telephone vault near the USTs at Main Street. Subsequent to the soil vapor survey, the four USTs near Main Street were removed and contaminated soil was excavated. To evaluate the groundwater conditions, two groundwater monitoring wells, one shallow and one deep, were installed at the site. The shallow well was located near the former UST pit and the deep well was located on the adjacent property to the east. The laboratory analyses suggest that the deep well sample contained no contamination. The groundwater sample from the shallow well indicated the presence of several gasoline constituents, but only benzene (125 µg/l) and MTBE (13,340 µg/l) were detected at concentrations above the groundwater quality standards. The report concluded that because of the relatively large difference in the benzene and MTBE concentrations, the well was located at the leading edge of the contaminant plume and that the source of contamination was likely from off-site. No additional investigations or remedial activity reports were in the NCDENR files. Copies of selected portions of the reports are presented in Attachment A.

Earth Tech also reviewed the UST registration database to obtain UST ownership/responsible party information. According to the database and on-site UST Permit, the USTs on the property are operated under Facility Number 0-003591. Thirteen of the USTs operated under this facility ID are noted as being permanently closed. The operator and owner of the tanks are listed as follows:

Owner

Neb King, Inc.
1026 N. main Street
Roxboro, North Carolina 27573
(336) 599-7031

Operator

Neb King, Inc.
1030 N. Main Street
Roxboro, North Carolina 27573
(336) 599-3418

Geophysical Survey

Prior to Earth Tech's mobilization to the site, Pyramid Environmental conducted a geophysical survey as part of this project to evaluate if additional USTs, other than the ones identified or removed, were present on the proposed right-of-way. The geophysical survey consisted of an electromagnetic survey using a Geonics EM61 time-domain electromagnetic induction meter to locate buried metallic objects, specifically USTs. A survey grid was laid out at the property with the X-axis oriented approximately parallel to Virgilina Road and the Y-axis oriented approximately parallel to Main Street. The grid was located to cover the accessible portions of the proposed right-of-way. The survey lines were spaced 1.5 meters (5 feet) apart. Magnetic data was collected continuously along each survey line with a data logger. After collection, the data was reviewed in the field with graphical computer software. Following the electromagnetic survey, a ground penetrating radar (GPR) survey was conducted to further evaluate any significant metallic anomalies if such a survey was considered necessary.

Several anomalies were detected in the geophysical survey. However, these anomalies were generally attributed to buried utility lines, conduits, or steel reinforced concrete. The survey concluded that no metallic USTs were present on the proposed right-of-way or easement. A detailed report of findings and interpretations is presented in Attachment B.

Site Assessment Activities

On July 11, 2007, Earth Tech mobilized to the site to conduct a Geoprobe[®] direct push investigation to evaluate soil conditions within the proposed right-of-way and easement. Continuous sampling using direct push technology (Regional Probing of Wake Forest, North Carolina) resulted in generally good recovery of soil samples from the direct-push holes. Soil samples were collected and contained in 1.2-meter (4-foot) long acetate sleeves inside the direct push sampler. Each of these sleeves was divided in half for soil sample screening. Each 0.6-meter (2-foot) interval was placed in a resealable plastic bag and the bag was set aside for a sufficient amount of time to allow volatilization of organic compounds from the soil to the bag headspace. The probe of a flame ionization detector/photo ionization detector (FID/PID) was inserted into the bag and the reading was recorded. After terminating the sample hole, the soil sample from the depth interval with the highest FID/PID reading was submitted to Prism Laboratories, Inc., in Charlotte, North Carolina, using standard chain-of-custody procedures. The laboratory analyzed the soil samples for total petroleum hydrocarbons (TPH) in the diesel range organics (DRO) and gasoline range organics (GRO).

Nine direct-push holes (KI-1 through KI-9) were advanced within the proposed right-of-way to a depth of 3.0 to 4.8 meters (10 to 16 feet) as shown in Figure 2 and Attachment C. The borings were located to evaluate the area adjacent to the former UST pit and the proposed easement (Attachment D). Borings KI-1 through KI-4 were located to evaluate the soil conditions at each end of the pump islands; borings KI-2, KI-3, and KI-5 were placed to assess the area where drop inlets are proposed; boring KI-6 was placed to determine the former UST pit depth and soil conditions below the pit; and

borings KI-7, KI-8, and KI-9 were placed to assess the horizontal extent of potential contamination. With the exception of boring KI-6, the lithology encountered by the direct-push samples generally was consistent throughout the site. The ground surface was covered with about 10 to 15 centimeters (4 to 6 inches) of asphalt, concrete, or gravel. Below the surface treatment to a depth of about 1.8 meters (6 feet) was a medium brown clay that likely represents fill material or reworked earth. Below this fill was a mottled medium brown, reddish brown, and yellow silt/clay. In boring KI-6, the UST pit backfill material was encountered to a depth of about 4.2 meters (16 feet). At this depth the material was a mottled red brown and olive green/gray silty clay. Borings KI-1, KI-2, KI-3, and KI-7, were terminated at equipment refusal at a depth of 3.0 meters (10 feet), borings KI-4, KI-5, and KI-8 were terminated at equipment refusal at a depth of about 3.3 to 3.5 meters (11 to 11.5 feet), and boring KI-9 was terminated at a depth of 3.6 meters (12 feet). Boring KI-6 was advanced to about 4.8 meters (18 feet) where equipment refusal was encountered. Although previous assessments indicated groundwater at a depth of less than 1.5 meters (5 feet), no free-flowing groundwater was present in any of the borings. Based on field screening, soil samples were submitted for laboratory analysis, which are summarized in Table 1.

Analytical Results

Based on the laboratory reports, summarized in Table 1 and presented in Attachment E, petroleum hydrocarbon compounds identified as DRO and/or GRO were detected in seven of the nine soil samples collected from the site (Figure 3). According to the North Carolina Underground Storage Tank Section's Underground Storage Tank Closure Policy dated August 24, 1998, the action level for TPH analyses is 10 milligrams per kilogram (mg/kg) for both gasoline and diesel fuel. However, that agency's "Guidelines for Assessment and Corrective Action," dated April 2001, does not allow for use of TPH analyses for confirmation of the extent of petroleum contamination or its cleanup. As a result, while TPH concentrations are no longer applicable in determining if soil contamination is present, this analysis is a legitimate screening tool. Based on the TPH action level for UST closures, the assumed action level for this report is 10 mg/kg. Soil samples collected from borings KI-3 (260 mg/kg), KI-4 (210 mg/kg), KI-5 (310 mg/kg), KI-6 (53 mg/kg), KI-8 (15 mg/kg), and KI-9 (25 mg/kg) contained a DRO concentration above the 10 mg/kg assumed action level. Soil samples collected from borings KI-3 (1,100 mg/kg) and KI-4 (2,500 mg/kg) contained a GRO concentration above the assumed action level.

Conclusions and Recommendations

A Preliminary Site Assessment was conducted to evaluate the Neb King Properties, Inc. (Parcel #011) located at 1030 N. Main Street in Roxboro, Person County, North Carolina. Nine soil borings were advanced to evaluate the soil conditions with respect to the areas adjacent to the existing pump islands, former UST locations, and within the proposed right-of-way. The laboratory reports of the soil samples from these borings suggest that DRO and/or GRO concentrations were present above the assumed action level in six of the nine soil samples analyzed.

To evaluate the volume of soil requiring possible remediation, the soil samples with TPH concentrations above 10 mg/kg were considered. The analytical results of the soil samples suggest that the soil from borings KI-3, KI-4, KI-5, KI-6, KI-8, and KM-9 contained TPH concentrations identified as DRO and/or GRO above the assumed action level. Field screening and observations suggest that contamination in boring KI-3 and KI-4 is at a thickness of about 3 meters (10 feet). The thickness of potentially contaminated soil at borings KI-5, KI-6, KI-8, and KI-9 is about 0.6 meters (2 feet). In order to assess the varying thicknesses with respect to volumetric calculations, a contaminant thickness map was constructed and a planimeter was used to obtain a total square meter (square foot) measurement for each thickness interval. This measurement was then multiplied by the potential contaminant thickness for a total volumetric calculation. These measurements are summarized in Table 2. Based on the planimetric measurements and contaminated soil thickness, Earth Tech estimates a total contaminated soil volume for the site to be approximately 916 cubic meters (1198 cubic yards). However, this volume includes the potentially contaminated soil on both the King property and the existing right-of-way. The volume of potentially contaminated soil on the King Property only is estimated to be approximately 703 cubic meters (919 cubic yards). The volume of potentially affected soil was estimated based on the 10 mg/kg isoconcentration contour shown on Figure 3 and the planimetric measurements within that boundary. This volume is estimated from TPH analytical data, which are no longer valid for remediation of sites reported after January 2, 1998. After this date, MADEP EPH/VPH and EPA Method 8260/8270 analyses will likely be required to confirm cleanup. However, these analyses do not correlate exactly with TPH data and, as a result, the actual volume of contaminated soil may be higher or lower.

Earth Tech appreciates the opportunity to work with the NCDOT on this project. Because compounds were detected above the applicable action levels in the soil samples, Earth Tech recommends that a copy of this report be submitted to the Division of Waste Management, UST Section, in the Raleigh Regional Office. If you have any questions, please contact me at (919)854-6238.

Sincerely,



Michael W. Branson, P.G.
Project Manager



Attachments

c: Project File

TABLE 1
SOIL FIELD SCREENING AND ANALYTICAL RESULTS
NEB KING PROPERTY (PARCEL #11)
ROXBORO, PERSON COUNTY, NORTH CAROLINA
NCDOT PROJECT NO. R-2241A
WBS ELEMENT 34406.1.1
EARTH TECH PROJECT NO. 100407

LOCATION	DEPTH (m)	FID READING (ppm)	SAMPLE ID	ANALYTICAL RESULTS (mg/kg)	ASSUMED ACTION LEVEL (mg/kg)
KI-1	0 - 0.6	65	KI-1	DRO (5.6 ^J) GRO (BQL)	10 10
	0.6 - 1.2	124			
	1.2 - 1.8	62			
	1.8 - 2.4	14.85			
	2.4 - 3.0	3.13			
KI-2	0 - 0.6	58	KI-2	DRO (BQL) GRO (BQL)	10 10
	0.6 - 1.2	432			
	1.2 - 1.8	63			
	1.8 - 2.4	63			
	2.4 - 3.0	1,710			
KI-3	0 - 0.6	362	KI-3	DRO (260) GRO (1100)	10 10
	0.6 - 1.2	5,052			
	1.2 - 1.8	31,200			
	1.8 - 2.4	11,300			
	2.4 - 3.0	941			
KI-4	0 - 0.6	228	KI-4	DRO (210) GRO (2500)	10 10
	0.6 - 1.2	3,170			
	1.2 - 1.8	370			
	1.8 - 2.4	1,981			
	2.4 - 3.0	443			
KI-5	0 - 0.6	51	KI-5	DRO (31) GRO (BQL)	10 10
	0.6 - 1.2	96			
	1.2 - 1.8	26			
	1.8 - 2.4	27			
	2.4 - 3.0	15.93			
KI-6	0 - 0.6	4.91	KI-6	DRO (53) GRO (BQL)	10 10
	0.6 - 1.2	3.59			
	1.2 - 1.8	3.75			
	1.8 - 2.4	1.15			
	2.4 - 3.0	2.7			
	3.0 - 3.6	1.43			
	3.6 - 4.2	1.77			
	4.2 - 4.8	1.14			
KI-7	0 - 0.6	54	KI-7	DRO (BQL) GRO (BQL)	10 10
	0.6 - 1.2	81			
	1.2 - 1.8	59			
	1.8 - 2.4	53			
	2.4 - 3.0	294			
KI-8	0 - 0.6	0.79	KI-8	DRO (15) GRO (BQL)	10 10
	0.6 - 1.2	1.5			
	1.2 - 1.8	0.81			
	1.8 - 2.4	0.96			
	2.4 - 3.0	0.01			
KI-9	0 - 0.6	232	KI-9	DRO (25) GRO (BQL)	10 10
	0.6 - 1.2	86			
	1.2 - 1.8	14			
	1.8 - 2.4	3.12			
	2.4 - 3.0	10.81			
	3.0 - 3.6	12.15			

Soil samples were collected on July 11, 2007.

DRO - Diesel range organics.

GRO - Gasoline range organics.

BQL - Below quantitation limit.

ppm - parts per million.

mg/kg - milligrams per kilogram.

J = Estimated value.

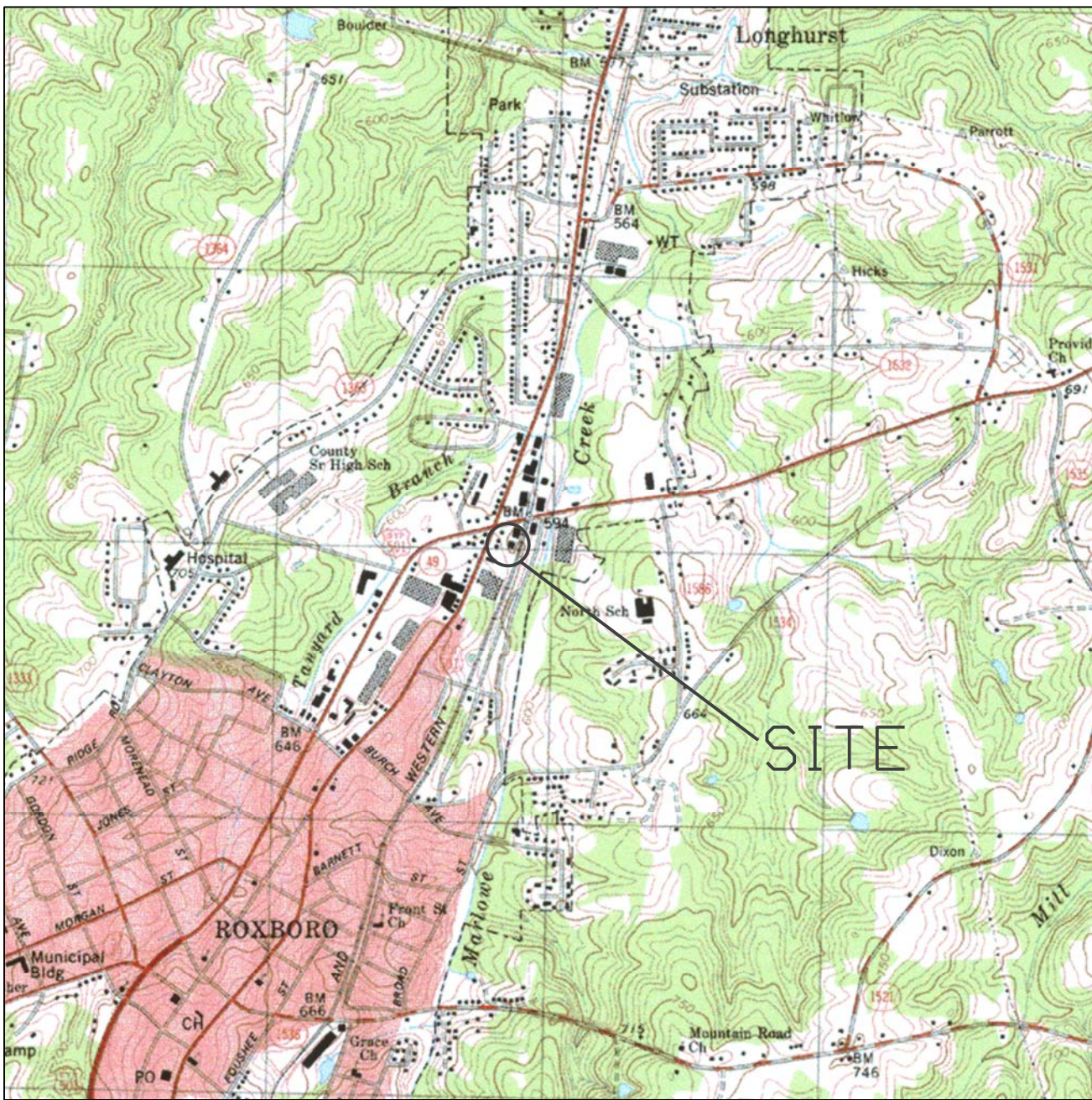
BOLD values are above the assumed action level.

TABLE 2

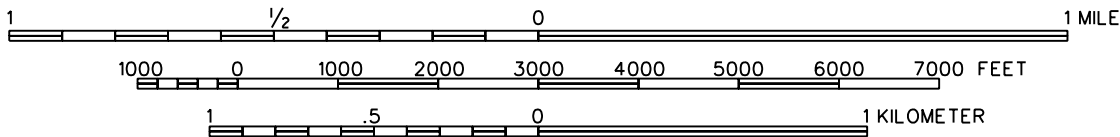
**CONTAMINATED SOIL VOLUME CALCULATION
NEB KING PROPERTIES (PARCEL #011)
ROXBORO, PERSON COUNTY, NORTH CAROLINA
NCDOT PROJECT NO. R-2241A
WBS ELEMENT 34406.1.1
EARTH TECH PROJECT NO. 100407**

CONTAMINATED SOIL THICKNESS (meters)	TOTAL AREA meters²	TOTAL VOLUME meters³	KING AREA meters²	KING VOLUME meters³
3	215	645	169	507
0.6	451	270.6	326	195.6
TOTAL		915.6		702.6

FIGURES



SCALE 1:24,000

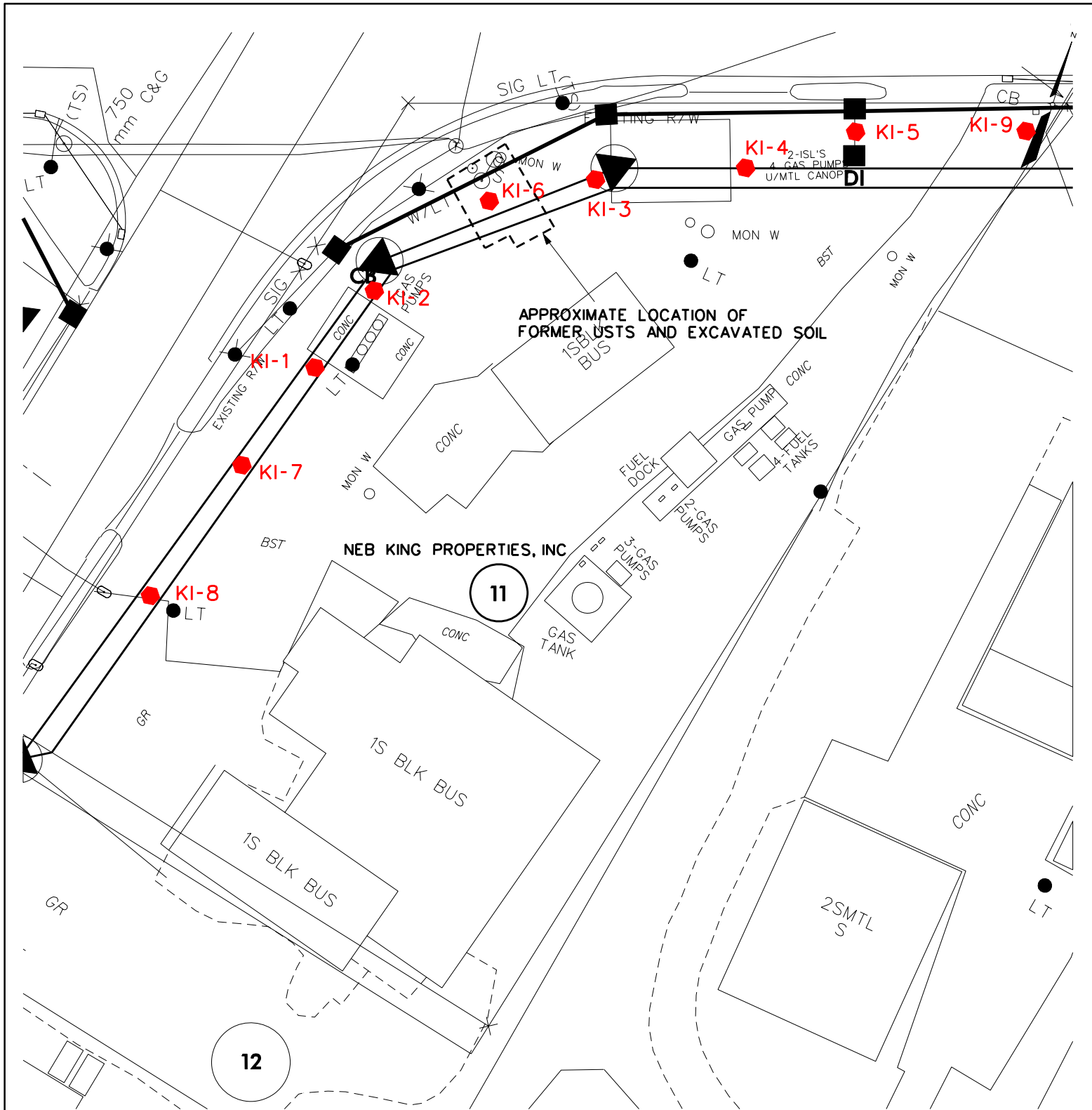


SOURCE: U.S. GEOLOGICAL SURVEY 7.5 MIN QUADRANGLE: ROXBORO, NC (1982)



FIGURE 1
VICINITY MAP

NEB KING PROPERTIES, INC. (PARCEL #011)
ROXBORO, PERSON COUNTY, NORTH CAROLINA



LEGEND

KI-4  SOIL BORING LOCATION AND IDENTIFICATION

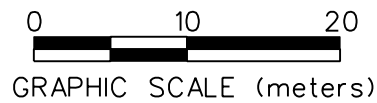
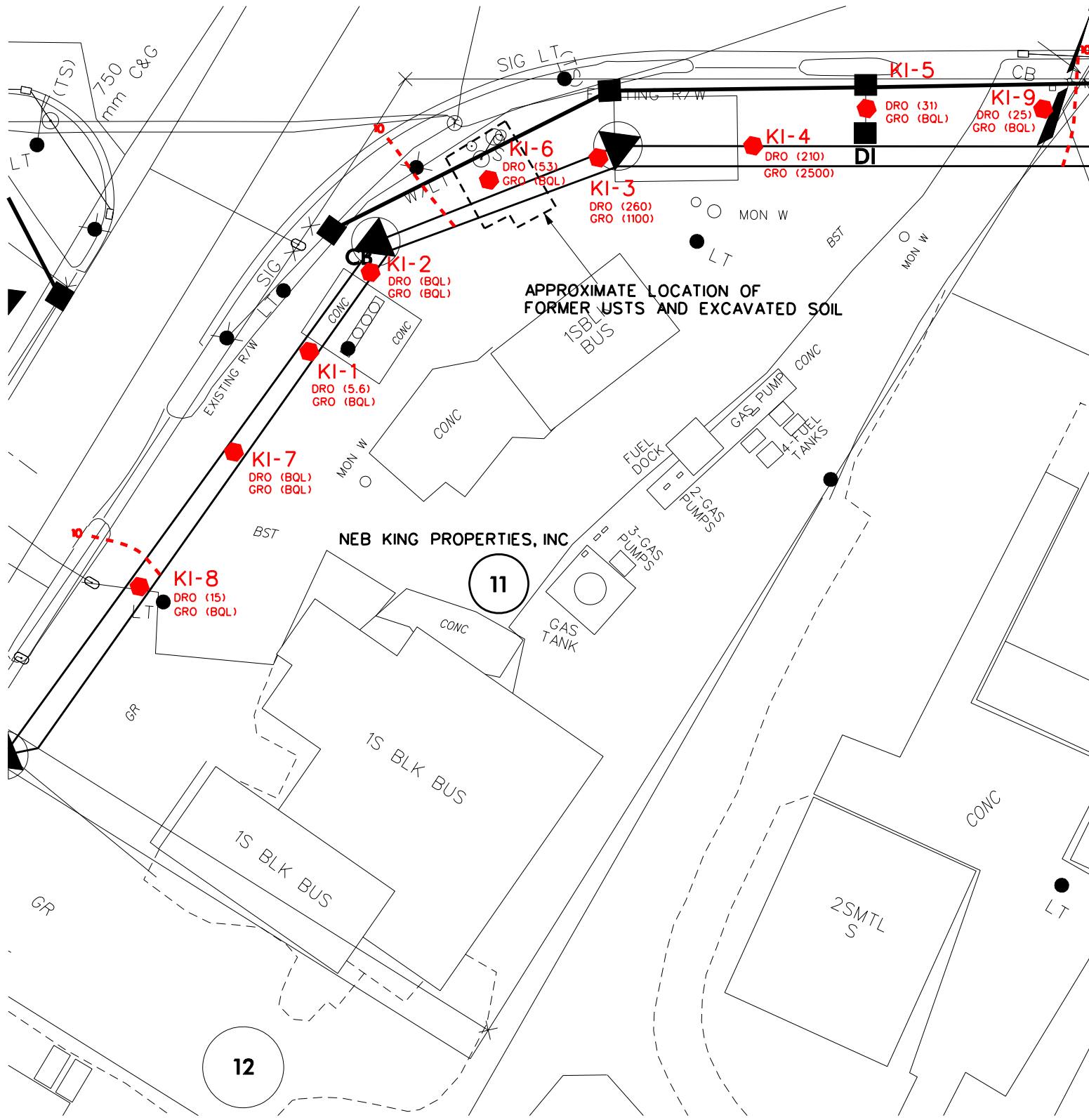




FIGURE 2
SITE MAP
NEB KING PROPERTIES, INC. (PARCEL 011)
ROXBORO, PERSON COUNTY, NORTH CAROLINA

JULY 2007

100407



LEGEND

-  SOIL SAMPLE LOCATION
-  TPH ISOCONCENTRATION CONTOUR
- DRO (123) TPH AS DIESEL FUEL IN MG/KG
- GRO (123) TPH AS GASOLINE IN MG/KG
- BQL BELOW QUANTITATION LIMIT

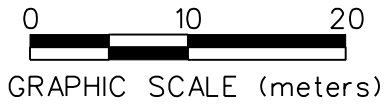


FIGURE 3
ANALYTICAL RESULTS MAP
 NEB KING PROPERTIES, INC. (PARCEL •011)
 ROXBORO, PERSON COUNTY, NORTH CAROLINA

JULY 2007

100407

ATTACHMENT A

Soil Vapor Survey
1026 North Main Street
Roxboro, North Carolina



Prepared For:

Mr. Neb King
1026 N. Main Street
Roxboro, NC 27573

ATEC Environmental Consultants

Division of ATEC Associates, Inc.
6814 Davis Circle
Raleigh, North Carolina 27612-2002
(919) 782-2832, FAX # (919) 781-7558

Solid & Hazardous Waste Site Assessments
Remedial Design & Construction
Underground Tank Management
Asbestos Surveys & Analysis
Hydrogeologic Investigations & Monitoring
Analytical Testing / Chemistry
Industrial Hygiene / Hazard Communication
Environmental Audits & Permitting
Exploratory Drilling & Monitoring Wells

January 24, 1989

Mr. Neb King
1026 N. Main Street
Roxboro, NC 27573

RE: Soil Vapor Survey
1026 North Main Street
Roxboro, North Carolina
ATEC Job No. 35-88943

Dear Mr King,

This letter is to present a preliminary report on soil vapor survey performed at the above referenced project site.

The project site is located to the north of Roxboro, NC at the northeast intersection of North Main Street and Virginia Road (See Attachment I Site Location Map). The site is occupied by a Union 76 service station and serves as a fuel depot for Neb King Oil Co. Four underground storage tanks (UST's) are located in front of the station to serve the fuel pumps, four more are behind the building are used to load trucks for petroleum delivery to other locations. An unused UST is located near HA-11. This tank had never been used according to Chip King, of Neb King Oil Co.

The project objectives included:

Delineating lateral & vertical extent of petroleum Hydrocarbon contamination in front of building.

Determine if a discharge has occurred in rear of building from UST's.

SCOPE OF THE WORK

The scope of the work included exploratory hand auger borings, taking soil samples around the underground storage tanks and following the contamination in decreasing concentration directions, using a Photoionization Detector (PID) to measure total volatile organic compounds (VOC's) present in the vapor phase and finally defining the contamination both vertically and laterally.

FIELD WORK

Hand-augers were penetrated through soils at strategic locations to obtain soil samples for PID measurements. A total of 23 exploratory hand auger borings were installed at the site. Soil samples were collected from each boring at an interval of 1-foot, stored in a glass jar, sealed air-tight and given sufficient length of time to reach steady state between the solid and vapor phases. A Photoionization detector (PID) was used to measure the concentrations of volatile organic compounds (VOC). Vapor measurements for each sample were recorded in parts per million (ppm). The soils obtained from the borings were placed on a plastic sheet and are presently being vented.

RESULTS AND CONCLUSIONS

A total of 23 hand-augered borings were studied to determine the lateral and vertical extent of the contamination to the soils on site (See Attachment II, Boring Locations). Data obtained from each soil sample is incorporated in this report as Attachment III. The underground storage tank (UST) at the back of the building do not show any sign of having leaked petroleum hydrocarbon to the surrounding soils. Contrary to this, the USTs near N. Main St. show high levels of contamination to the surrounding soils. The highest contamination found near hand borings HAB and HABA (see ATTACHMENT II, III). The PID readings from each boring have been averaged over depth of collection, plotted and contoured to determine lateral extent of the contamination (See ATTACHMENT IV).

Based on our field investigations and data interpretation, the site has been found to be contaminated by petroleum hydrocarbon.

The contamination plume has crossed property boundaries and should be remediated.

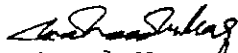
The contaminated soils at the project site need to be removed by excavation and spread over a plastic sheet for proper ventilation. With time this will reduce VOC levels. Once levels are below 100 ppm, the Solid and Hazardous Waste Branch may allow it to be moved to a County Landfill for proper disposal, upon presenting the proper analysis reflecting acceptable levels of VOC's. The DEM may require at least one monitoring well to be placed on site and a groundwater sample collected. To determine if groundwater contamination has occurred analytical methods 3550 & 5030 may be required.

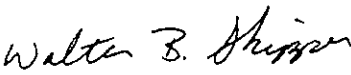
Soil Vapor Survey
January 24, 1989
Page Three

A TEC Environmental Consultants is pleased to serve you on this project and is fully capable of undertaking the next phase of the project. In the interim, should you have any questions or desire additional information, please contact us at your convenience.

Sincerely,

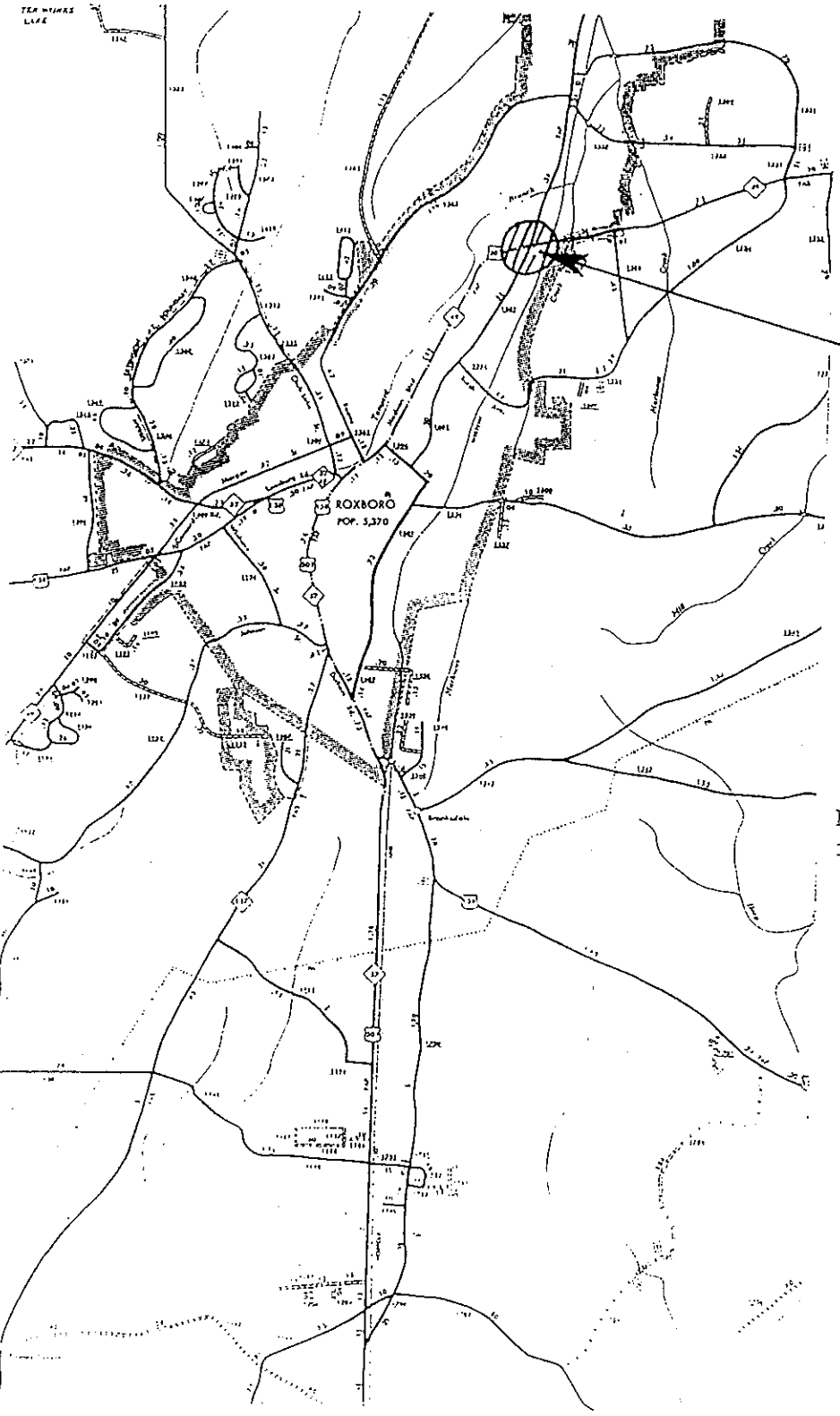
A TEC Environmental Consultants


Waheed Haq, P.G.
Senior Hydrologist

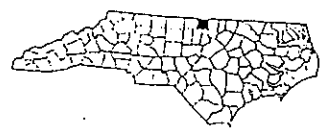

Walter B. Skipper
Geophysicist
Environmental Division Manager



WH/WBS/slb



PROJECT SITE

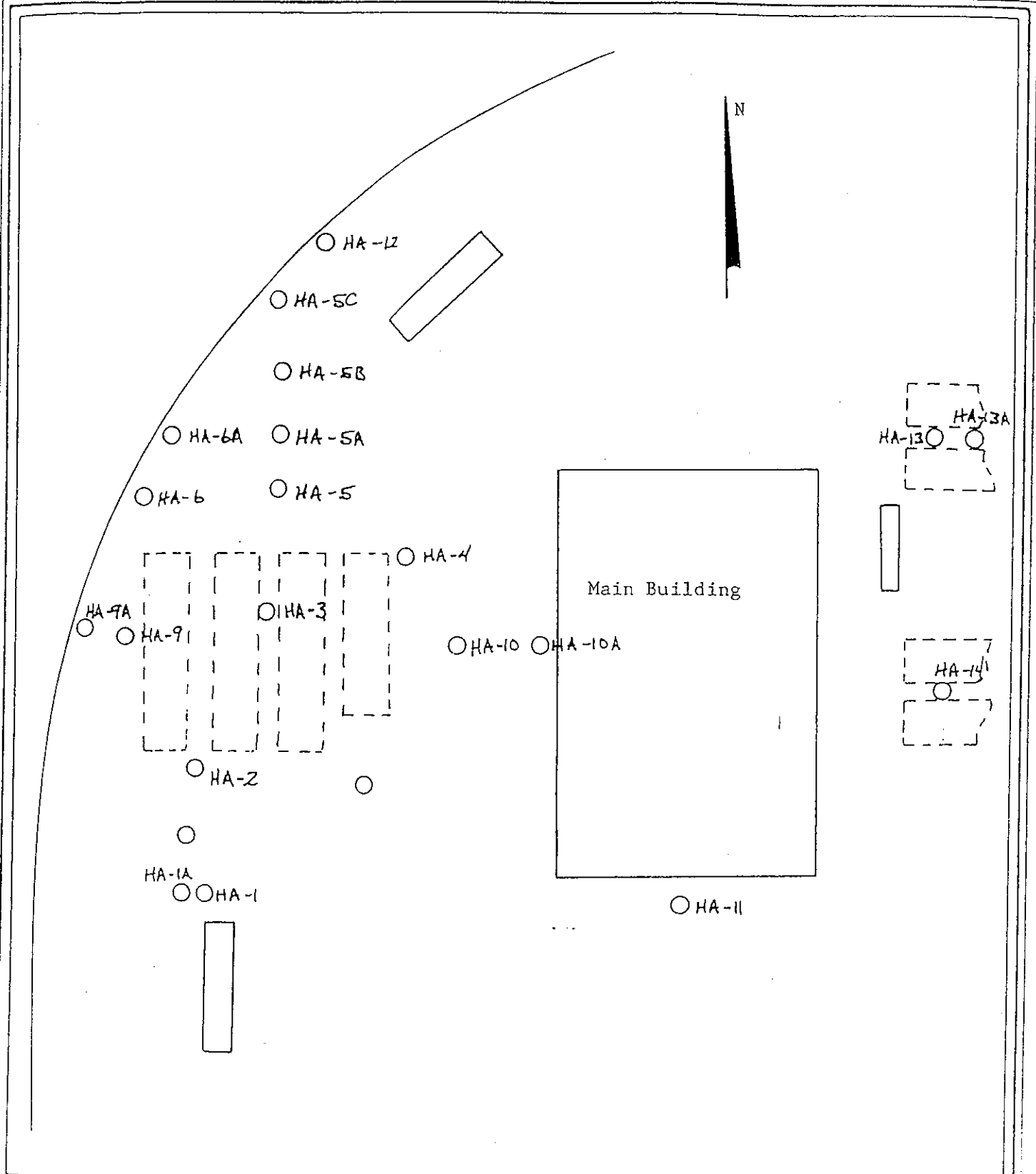


Location of Person County
in North Carolina

SITE LOCATION MAP
SOIL VAPOR SURVEY
1026 N. Main Street
ROXBORO, NORTH CAROLINA

ATEC Associates, Inc.
of North Carolina
6814 Davis Circle
Raleigh, North Carolina 27612
919-782-2832 Raleigh

SCALE: As shown	DRAWN BY: USGS	CHECKED BY: WH	DATE: 01/16/89	PROJECT NO. 35-88943	DRAWING NO. I
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BORING LOCATION MAP
 SOIL VAPOR SURVEY
 1026 N. Main Street
 ROXBORO, NORTH CAROLINA

ATEC Associates, Inc.
 of North Carolina
 6814 Davis Circle
 Raleigh, North Carolina 27612
 919-782-2832 Raleigh

SCALE: Not to Scale	DRAWN BY: LO	CHECKED BY: WH	DATE: 01/16/89	PROJECT NO. 35-88943	DRAWING NO. II
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88943

Union 76, Roxboro, NC 1/18/89
Vapor Study

<u>LOCATION</u>	<u>DEPTH (PL)</u>	<u>CONC. (PPM)</u>
HA - 1	1	3
	2.5	15
	A.R. @ 2.5 FT	
HA-1A	2	40.4
	3	45.7
	4	16.8
	5	7.0
	6	1.4
HA-2	1	1127
	2	1430
	3	1827
	4	1547
	5	1213
	6	715
	7	1478
	8	1519
	8.5	1834 AR
	ROCK 8.5	121.7
HA-3	2	1425
	3	1452
	4	982 AR
HA-3A	2	1357
	3	1151
	4	1345
	5	1107
	6	1379
	7	1457
	8	1713
	9	1357
	10	1187
	11	1237
HA-4	1	518
	2	1107
	3	744
	4	666
	5	1133
	6	885
	7	139
	8	264
	9	122
	9.4 AR	284

<u>LOCATION</u>	<u>DEPTH (PL)</u>	<u>CONC. (PPM)</u>
HA-9	1	269
	2	806
	3	491
	4	1097
	5	815
	6	569
	7	1564
HA-10	1	4.8
	2	23.8
	3	70
	4	56
HA-10A	1	0
	2	1.1
	3	3.4
	4	1.9
HA-11	1	0.4
	2	1.0
	3	4.5
	4	4.4
	5	4.7
	6	1.1
	7	1.9
HA-12	2	0
	3	0
	4	2.1
HA-13	1	25.1
	2	7.2
	3	2.6
	4	8.6
	5	1.8
	6	1.6
	7	9.4
	8	4.8
	9	21.5
		A.R. @ 9.0 FT
HA-13A	1	4.5
	2	3.1
	3	3.2
	4	3.3

} During Trench excavation these locations did not show any contamination (reported by WB)

88943
Page Four

Union 76, Roxboro, NC 1/18/89
Vapor Study

<u>LOCATION</u>	<u>DEPTH (PL)</u>	<u>CONC. (PPM)</u>
HA-14	1	22.3
	2	5.5
	3	7.7
	4	21.9
	5	6.8
	6	4.2
	7	5.6
	8	4.0
	9	1.5
	10 A.R.	6.6

Union 76
US 501-Madison Blvd.
Roxboro, North Carolina



Prepared For:

NRCD-DEM (Groundwater Section)
3800 Barrett Drive
Raleigh, NC 27609



ATEC Environmental
Consultants

Division of ATEC Associates, Inc.
6814 Davis Circle
Raleigh, North Carolina 27612-2002
(919) 782-2832, FAX # (919) 781-7558

Solid & Hazardous Waste Site Assessments
Remedial Design & Construction
Underground Tank Management
Asbestos Surveys & Analysis
Hydrogeologic Investigations & Monitoring
Analytical Testing / Chemistry
Industrial Hygiene / Hazard Communication
Environmental Audits & Permitting
Exploratory Drilling & Monitoring Wells

August 21, 1989

NRCD-DEM (Groundwater Section)
3800 Barrett Drive
Raleigh, NC 27609

Attn: Mr. Ed Berry

Re: Union 76
US 501-Madison Blvd.
Roxboro, North Carolina
ATEC Job No. 35-88943

Dear Mr. Berry:

ATEC Environmental Consultants was retained by Neb King Oil Company to perform environmental studies at the above referenced project site. This report briefly presents our findings. All Conclusions are drawn based on field activities, water quality data, physical description of the site and adjacent properties. Our Recommendations are given at the end of this report.

PURPOSE OF STUDY

The purpose of this study was to investigate potential groundwater contamination and to explore the possible origin of the contaminant source.

SCOPE OF WORK

The scope of work included installing at least one monitor well at the project site, develop and sample monitor well(s), analyze water samples collected and to investigate adjacent properties (see ATTACHMENT I).

FIELD ACTIVITIES

ATEC Environmental Consultants investigated the project site in several phases. Initially a soil vapor survey was performed in January, 1989, (see ATTACHMENT VII-1). During the same month, tank removal operation was supervised by ATEC. Free product was observed in the excavation pit and was removed by Neb King Oil Company. All contaminated soils were excavated. An ATEC Representative noted a circular stained area 6 foot below the land surface on the excavation walls of the pit, located adjacent to the telephone vault. This staining indicated that the contamination originated from the vault and has flowed from off site and onto our clients site. New underground storage tanks (USTs) were installed after the soils were tested and proved to be free of contamination.

The soils around the USTs located on the back of the buildings were also tested in the field and in the laboratory for total petroleum hydrocarbons (Gasoline, Diesel). The samples indicated minor contamination by petroleum hydrocarbons. The contamination levels found were less than 5.0 ppm which is below the prescribed limit of 10 ppm.

NRCD-DEM (Groundwater Section)
August 21, 1989
Page Three

A TEC Environmental Consultants representatives were present at the project site to install two 2-inch diameter monitor wells on July 17 through 19, 1989. One shallow well (MW-2) was installed at the project site to determine if groundwater contamination is present in the upper aquifer. Another well (MW-1) was installed at a location (topographically down gradient) to investigate whether or not the deeper aquifer was contaminated (see ATTACHMENT II). This deep well was a double-cased 2-inch diameter monitor well which was placed in the bed rock to a 50.0 ft depth.

Two hand auger borings were advanced to water table depths in order to determine if subsurface soils contamination is present on a property located up gradient topographically (see ATTACHMENT I). The purpose of these two hand auger borings was to investigate if the telephone conduit found near the project site is acting as an easy pathway for contaminant migration. This conduit runs along the northern direction at a depth of 15.0 feet below grade. From surface appearance of the project site and the adjacent properties, the overland flow is as shown on ATTACHMENT I. The photoionization detector readings on the soil samples collected from these hand auger borings are relatively high (see ATTACHMENT V).

Well completion reports are enclosed for the Division of Environmental Management (DEM) records (see ATTACHMENT III).

SOILS CHARACTERISTICS

Soil samples were collected from both the monitor wells using a split spoon sampler by ASTM 1586 SPT method. These soils indicated that a surficial CLAY (CL) extends to depths of approximately 7.5 feet below the land surface. Underlain by this surficial clay layer is a SILT layer (see ATTACHMENT IV). This saprolite formation originated from a regional mudstone.

RESULTS

The soil samples collected from monitor wells MW-1 and MW-2 indicated no contamination (see ATTACHMENT IV). This indicates that at the given locations the subsurface soils are clean and that the reported free product may have originated from a different location.

Two up gradient off site hand auger borings which were advanced to over 9.0 feet below land surface showed high contamination levels (see ATTACHMENT V). These hand auger borings were located on a property that encompasses an active gas station (Humphries Gas Station) and has several underground storage tanks. Furthermore, the proximity of these borings near an underground conduit which has a vault near the referenced project site indicates that if USTs at this site were leaking, then free product will migrate towards our project site.

NRCD-DEM (Groundwater Section)
August 21, 1989
Page Five

This is supplemented by the fact that maximum readings are obtained at depths of 6-7 feet below land surface. Therefore, in case of a near-surface spill, the contaminants will quickly leach down to the conduit level in question and flush down-gradient.

This further implies that the adjacent site which is located upgradient topographically should be assessed since this is an active facility operating several underground storage tanks.

The water samples which were collected from monitor well MW-1 and MW-2 were analyzed by EPA method 602 with MTBE, EDB and total lead (see ATTACHMENT VI). The water quality data indicates that monitor well MW-1 which was set in the deeper aquifer is free of contamination whereas monitor well MW-2 has relatively higher contamination levels. A critical review of the constituents of gasoline found in this well, the nature and mechanism of migration of these contaminants entails that the monitor well is at the leading edge of the contaminant plume. If the contaminant source were to originate from the referenced project site the Benzene, Toluene and other constituents must also be high in concentration. However, the data shows the reverse.

Further the contaminated soils at a property topographically up gradient and the shallow telephone conduit are all indicative of contaminant source to be located at this adjacent property (Humphries Gas Station). A general survey of the adjacent properties shows that a number of possible potential sources of contamination exist near the project site. Therefore, ATEC Environmental Consultants feels that other potential sites should be investigated before Neb King Oil Company takes any further action.

CONCLUSIONS

Based on field activities, laboratory results and analyses of the field data, ATEC Environmental Consultants concludes the following:

1. The contaminated soils associated with the USTs have been delineated and removed. Therefore, the soils at the project site are either free of contamination or with minor contamination (which is below the limits prescribed by the STATE regulations).
2. Two monitor wells were installed at the Project site. One of these was installed in the deeper aquifer and the other in the shallow soft formations. The shallow monitor well indicates contamination whereas the deeper (double cased) monitor well is free of contamination.
3. Water quality data indicates that the monitor well MW-2 (installed in shallow soft sediments) is contaminated. However, the contaminant levels show that the source of contamination may originate from an off-site location. This is based on the fact that MTBE is over 13,340 ppb whereas Benzene, Toluene and Xylenes are only 125 ppb, 46 ppb, and 250 ppb respectively. This implies that MW-2 may be located at the leading edge of the contaminant plume, since MTBE migrates further and faster compared to other constituents of gasoline.
4. The free product observed in the telephone vault may be coming from other properties since a shallow underground conduit passes near another potential source of contamination.

5. The location of the project site is such that other potential contamination sources may also be contributing to the contamination.
6. Two hand auger borings placed at a property located up gradient (topographically) indicate contamination by petroleum hydrocarbons.
7. Neb King Oil Company has collected preliminary data which indicates that the source of contamination originates from an adjacent property.

RECOMMENDATIONS


ATEC Environmental Consultants recommends the following:

1. The groundwater contamination of shallow aquifer indicates that the source of contamination originates from adjacent potential site(s). Therefore adjacent site(s) should be investigated to locate the source of origin.


NRCD-DEM (Groundwater Section)
August 21, 1989
Page Eight

Mr. Berry, ATEC Environmental Consultants feels that Neb King Oil Company should hold further investigations until adjacent properties are properly investigated and the source of contamination located. Should you have any questions regarding this report or desire additional information, please contact this office at your convenience.

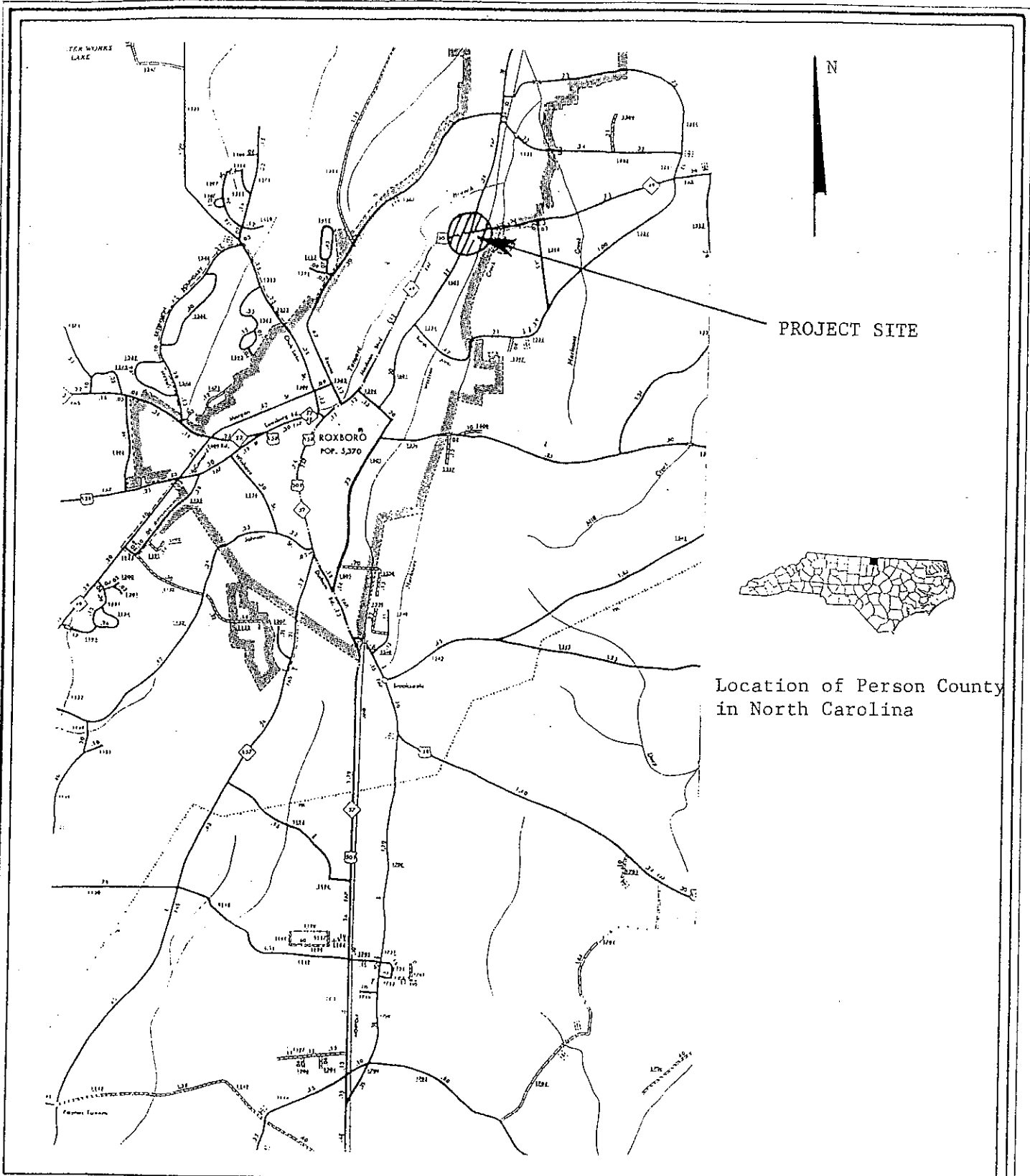
Sincerely,


Waheed H. Rana, P.G.
Manager Hydro-Department

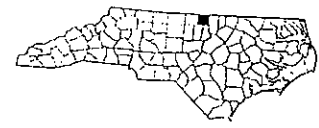



Bradley Skipper
Environmental Division Manager

WHR/BS/slb



PROJECT SITE

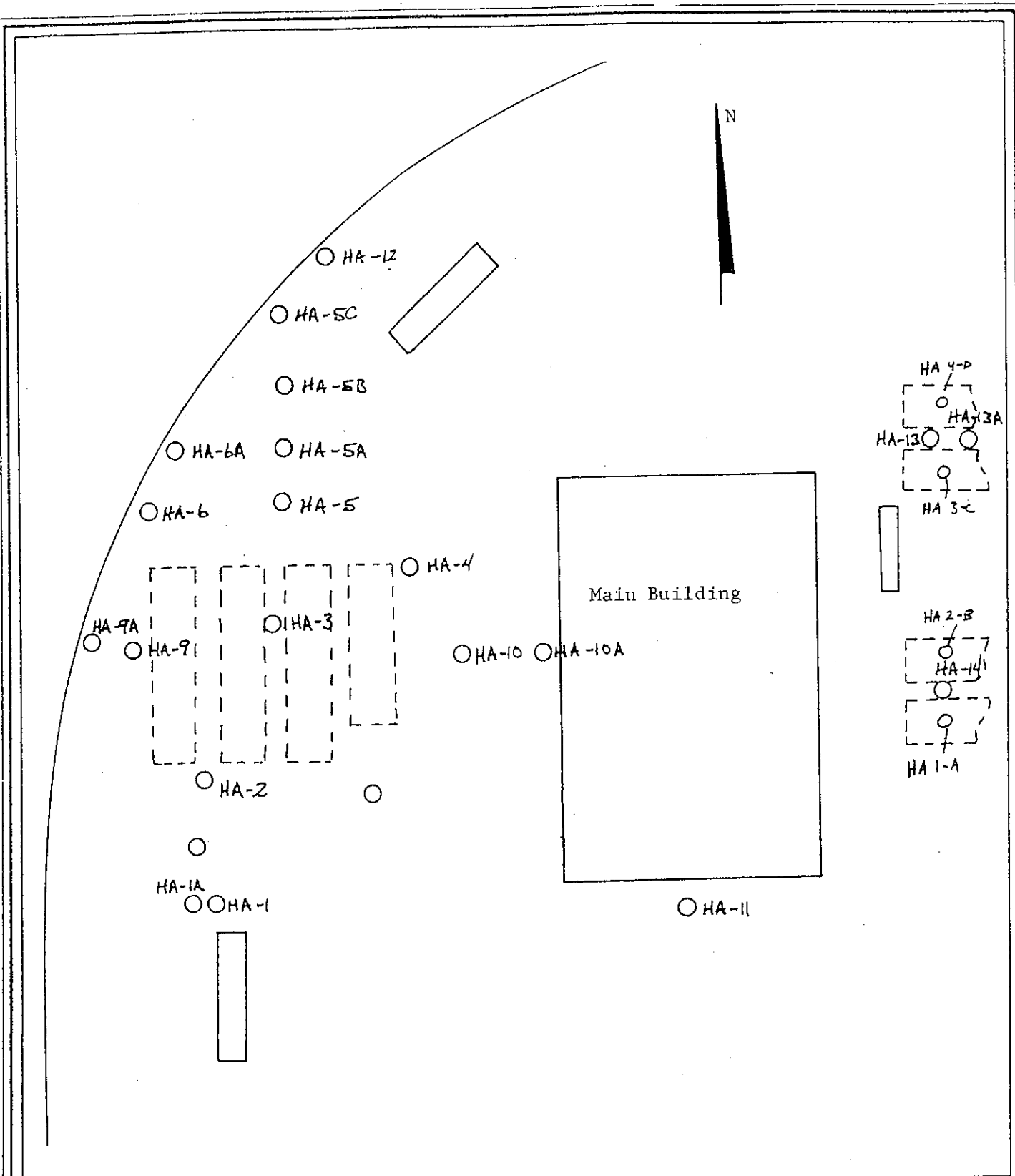


Location of Person County
in North Carolina

SITE LOCATION MAP
SOIL VAPOR SURVEY
1026 N. Main Street
ROXBORO, NORTH CAROLINA

ATEC Associates, Inc.
of North Carolina
6814 Davis Circle
Raleigh, North Carolina 27612
919-782-2832 Raleigh

SCALE: As shown	DRAWN BY: USGS	CHECKED BY: WH	DATE: 01/16/89	PROJECT NO. 35-88943	DRAWING NO. I
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BORING LOCATION MAP
 SOIL VAPOR SURVEY
 1026 N. Main Street
 ROXBORO, NORTH CAROLINA

ATEC Associates, Inc.
 of North Carolina
 6814 Davis Circle
 Raleigh, North Carolina 27612
 919-782-2832 Raleigh

SCALE: Not to Scale	DRAWN BY: LO	CHECKED BY: WH	DATE: 01/16/89	PROJECT NO. 35-88943	DRAWING NO. II
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HAND AUGER AND MONITOR WELL LOCATIONS
 1026 N. MAIN STREET
 ROXBORO, NORTH CAROLINA

SCALE:	DRAWN BY:	CHECKED BY:	DATE:	PROJECT NO.	DRAWING NO.
NTS	EMK		8/18/89	35-88943	

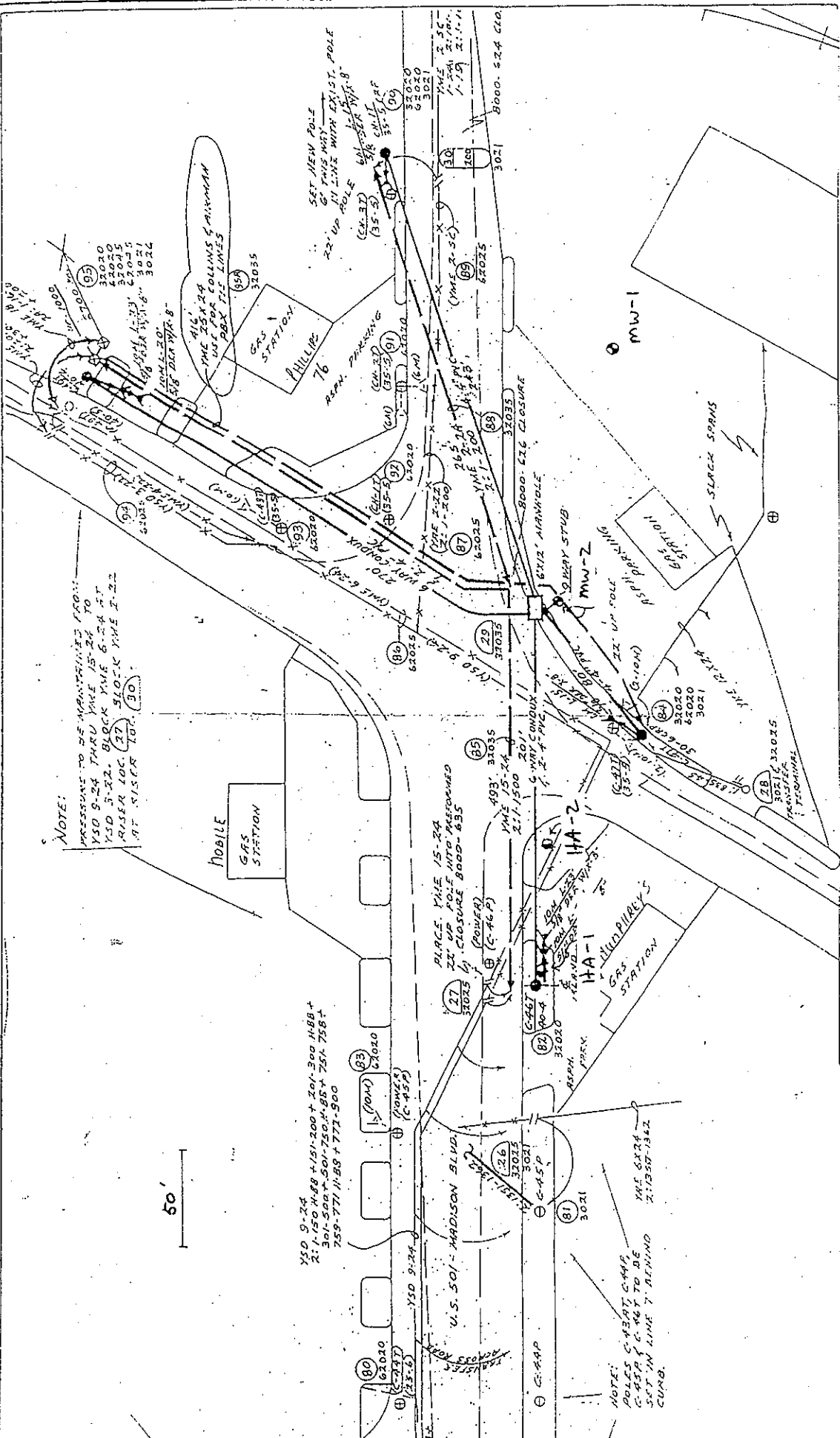
NOTE:
 PRESSURE TO BE MAINTAINED 100:
 YSD 9-24 THRU YME 15-24 TO
 YSD 5-22. BLOCK YME 6-24 AT
 RISER LOC. (27) SLOPE YME 2-22
 AT RISER LOC. (30)

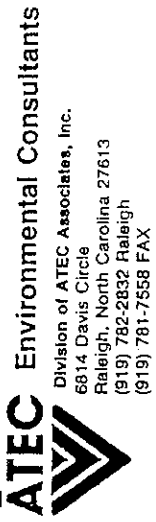
50'

YSD 9-24
 1-150 H-88 + 151-200 + 201-300 H-88 +
 301-304 + 305 + 306 + 307 + 308 + 309 + 310 +
 311 + 312 + 313 + 314 + 315 + 316 + 317 + 318 + 319 + 320

U.S. 501 - MADISON BLVD

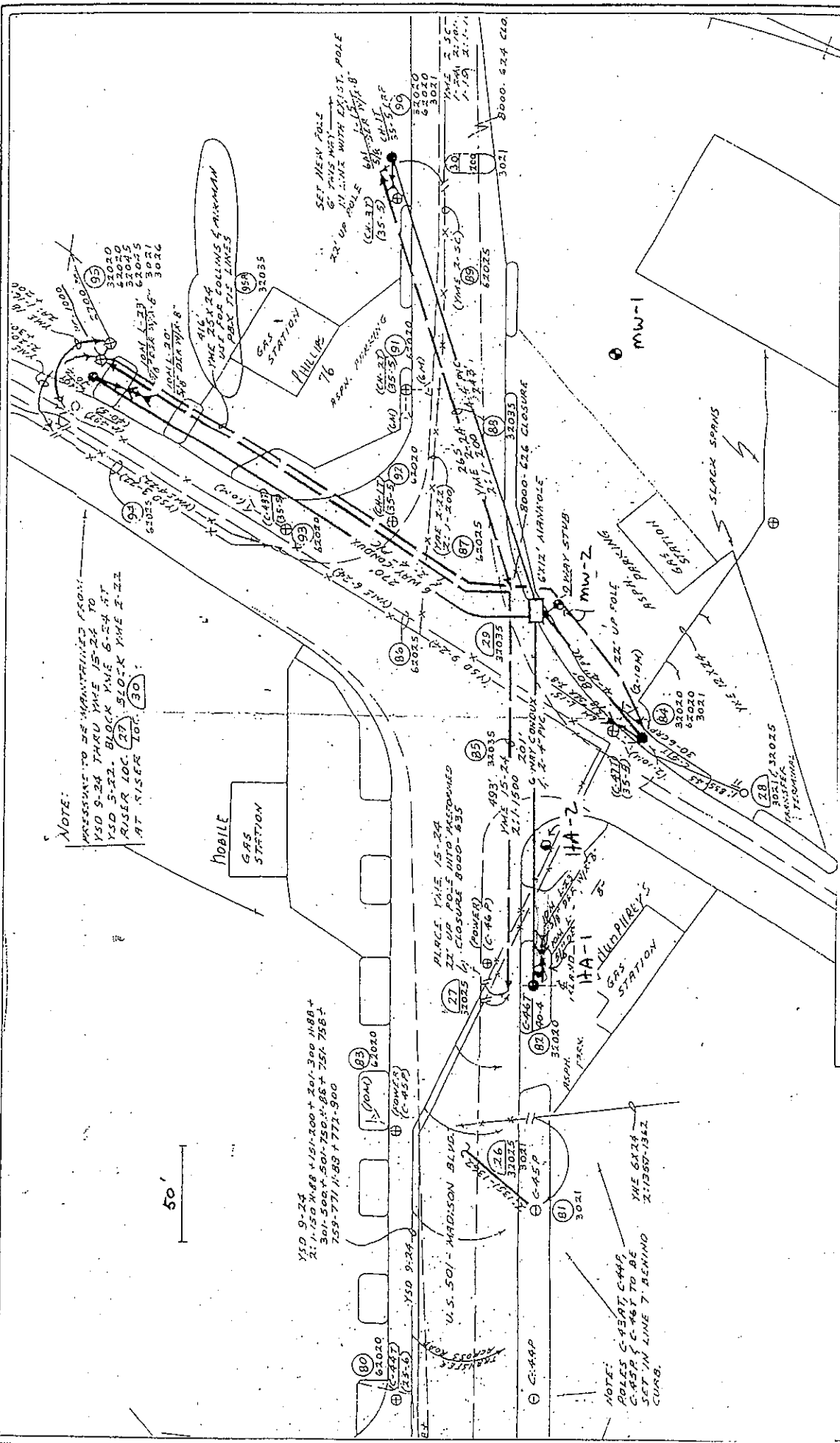
NOTE:
 POLES C-45A, C-45B,
 C-45C, C-45D TO BE
 SET IN LINE WITH
 CURB.





HAND AUGER AND MONITOR WELL LOCATIONS
 1026 N. MAIN STREET
 ROXBORO, NORTH CAROLINA

SCALE:	DRAWN BY:	CHECKED BY:	DATE:	PROJECT NO.	DRAWING NO.
NTS	EMK		8/18/89	35-88943	





Environmental Consultants

Division of ATEC Associates, Inc.
6814 Davis Circle
Raleigh, North Carolina 27612-2002
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Asbestos Surveys & Analysis
Hydrogeologic Investigations & Monitoring
Analytical Testing / Chemistry
Industrial Hygiene / Hazard Communication
Environmental Audits & Permitting
Exploratory Drilling & Monitoring Wells

August 16, 1989

Neb King
1026 N. Main
Roxboro, NC 27573

Attn: Chip King

RE: Union 76
Tank Excavation
HA-32, HA-40
ATEC Job No. 35-88943

Dear Chip:

This letter is to present our findings, resulting from field activities performed at the project site referenced above.

In accordance with 40 CFR 280.72(a), an ATEC Environmental Consultant representative collected soil samples from two underground storage tank present on the project site. Two soil samples were delivered to the laboratory for chemical analysis. The soil samples were analyzed for total Petroleum hydrocarbons (Diesel and Kerosene). Analytical results indicate readings ranging from 1.53 to 3.30 parts per million, both of which are below the detection limit of 10 ppm (see Attachment II).

It is our conclusion that the samples taken from the excavations indicated on Attachment I are free of contamination. Should you have any questions or desire additional information, please call us at your convenience.

Sincerely,

Blair Davis
Project Manager

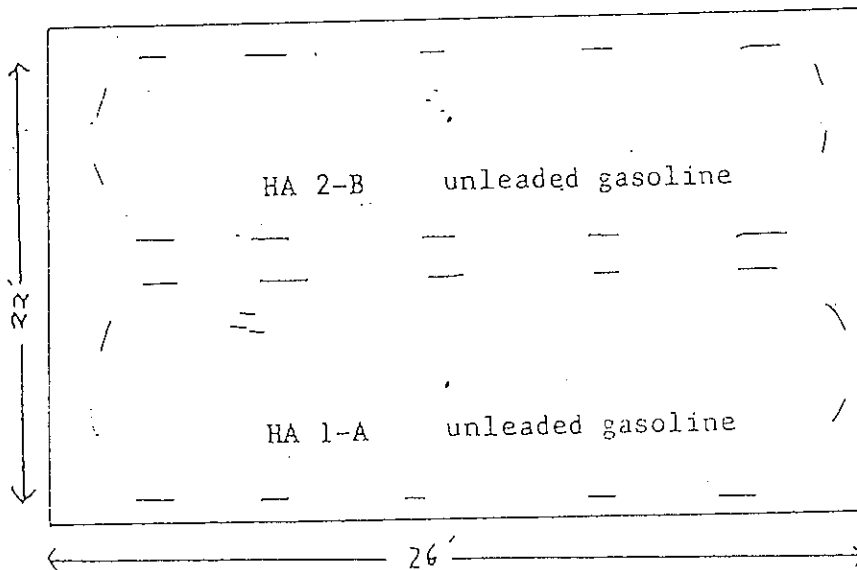
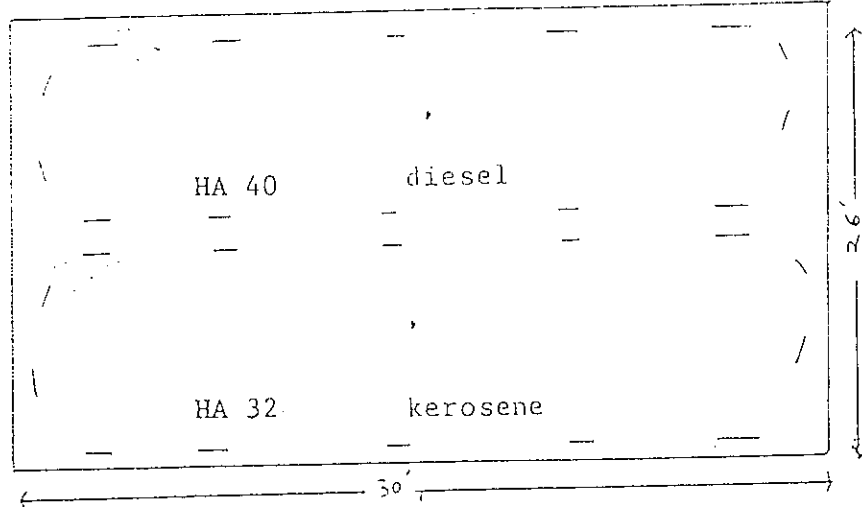
BD/jb

Attachments

UNION 76 PHYSICAL BUILDING

N

LOADING DOCK



UNION 76-NEB KING
TANK EXCAVATION AUGER LOCATIONS
4--8000 gallon tanks



ATEC Environmental Consultants
Division of ATEC Associates, Inc.
5814 Davis Circle
Raleigh, North Carolina 27613
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DRAWING NO.

ATEC® Environmental Consultants

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Raleigh, North Carolina 27612-2002
(919) 782-2832, FAX # (919) 781-7558

Solid & Hazardous Waste Site Assessments
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Underground Tank Management
Asbestos Surveys & Analysis
Hydrogeologic Investigations & Monitoring
Analytical Testing / Chemistry
Industrial Hygiene / Hazard Communication
Environmental Audits & Permitting
Exploratory Drilling & Monitoring Wells

August 8, 1989

Neb King
1026 N. Main
Roxboro, NC 27573

Attn: Chip King

RE: Tank Excavation Sample Results
Union 76
Roxboro, NC
ATEC Job No. 35-88943


Dear Chip:

This letter is to present our findings, resulting from field activities performed at the project site referenced above.

In accordance with 40 CFR 280.72(a), an ATEC Environmental Consultant representative collected soil samples from two underground storage tanks present on the project site (see Attachment I). Two soil samples were delivered to the laboratory for chemical analysis. The soil samples were analyzed for total petroleum hydrocarbons (gasoline). Analytical results indicate the absence of the above referenced parameters above the practical quantitation limit of 1 ppm (see Attachment II).

It is our conclusion that the samples taken from the excavations indicated on Attachment I are free of contamination. Should you have any questions or desire additional information, please call us at your convenience.

Sincerely,


Keith Edwards
Manager, UST Department

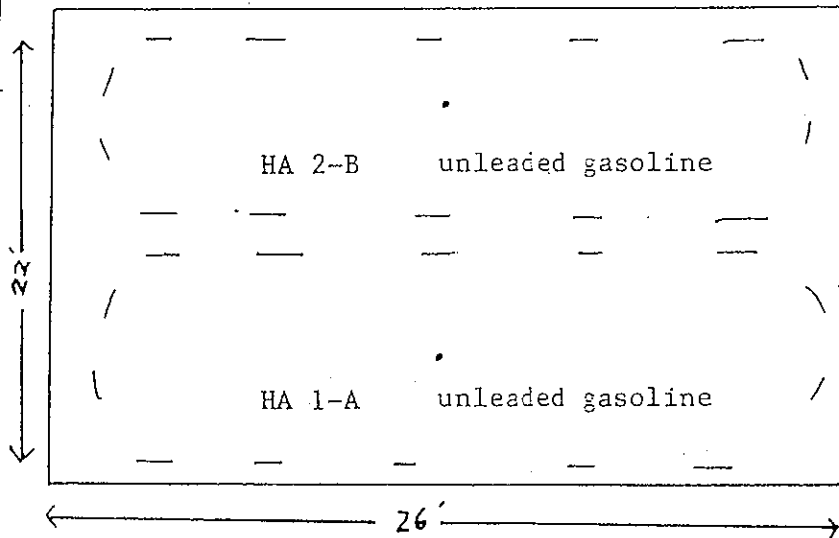
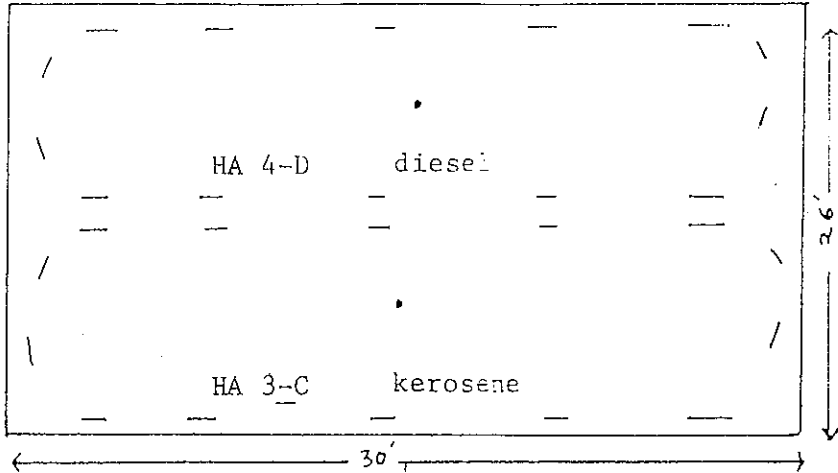
KE/jb

Attachments

N

UNION 76 PHYSICAL BUILDING

LOADING DOCK



UNION 76-NEB KING
 TANK EXCAVATION AUGER LOCATIONS
 4--8000 gallon tanks

ATEC Environmental Consultants
 Division of ATEC Associates, Inc.
 5814 Davis Circle
 Raleigh, North Carolina 27613
 (919) 782-2832 Raleigh
 (919) 781-7558 FAX

SCALE

DRAWN BY

CHECKED BY

DATE

PROJECT NO

DRAWING NO

COPY

July 6, 1989

Neb King Inc.
Unocal Oil Products
1028 North Main Street
Roxboro, NC 27573

Attn: Chip King

Re: Union 76 Station
1026 North Main Street
Roxboro, North Carolina
ATEC Job No. 35-88943

Dear Mr. King:

This report is to present our findings resulting from field activities performed at the project site referenced above.

WORK SUMMARY

On 1/18/89 a soil vapor study was performed at the above referenced project site. At that time ATEC Environmental Consultants concluded that the project site was found to be contaminated by petroleum hydrocarbons and that contamination had crossed property boundaries. As a result, remediation was recommended for the project site (See report, Soil Vapor Survey issue 1/24/89).

Note: A soil sample obtained from hand auger hole eleven (HA-11), indicated the presence of minor organic vapor. New underground storage tanks were to be installed in proximity to HA-11.

On 1/24/89 an ATEC Associates Inc. representative returned to the project site to monitor soils for petroleum hydrocarbon contamination during the removal of four underground storage tanks (UST). (Attachment I)

On 1/24/89 the UST's were removed. At that time it was noted that free petroleum product was present in the base of the excavated pit. The client then began removal of product and contaminated soils. On 1/25/89 ATEC representatives returned to

Neb King, Inc.
July 6, 1989
Page Two

the project site to continue monitoring soil removal. The excavated pit was now approximately 12.0 ft to 18.0 ft below grade (40 ft long and 22 ft wide). Soils from the walls and base of the excavation were tested for petroleum contamination. The excavation was divided into four sections. Composite samples were obtained from the walls and the base of each section. PID values ranged from 20.0 ppm to 126 ppm. (For specific locations and results see Attachments II and III.)

Due to site contamination levels, further soil removal was undertaken. At approximately 18 ft to 19 ft below grade, a metamorphosed mudstone common to the Roxboro region was encountered. With increasing difficulty, this weathered material was removed to a depth of 20.0 ft to 21.0 ft below ground surface. The excavation was again divided into four sections. Composite samples were again obtained from the walls and base of each section and tested for contaminants. PID values ranged from 4.0 ppm to 5.9 ppm. Because of these low values, ATEC recommended excavation closure. The client on his own initiative however, continued to remove the upper 7.0 feet of soils north of the open excavation, for approximately 20 more feet (Horizontal).

Composite soil/rock samples from each of the four sections were retained and properly preserved for later chemical analysis. For specific locations and results see Attachment IV, V and VI.

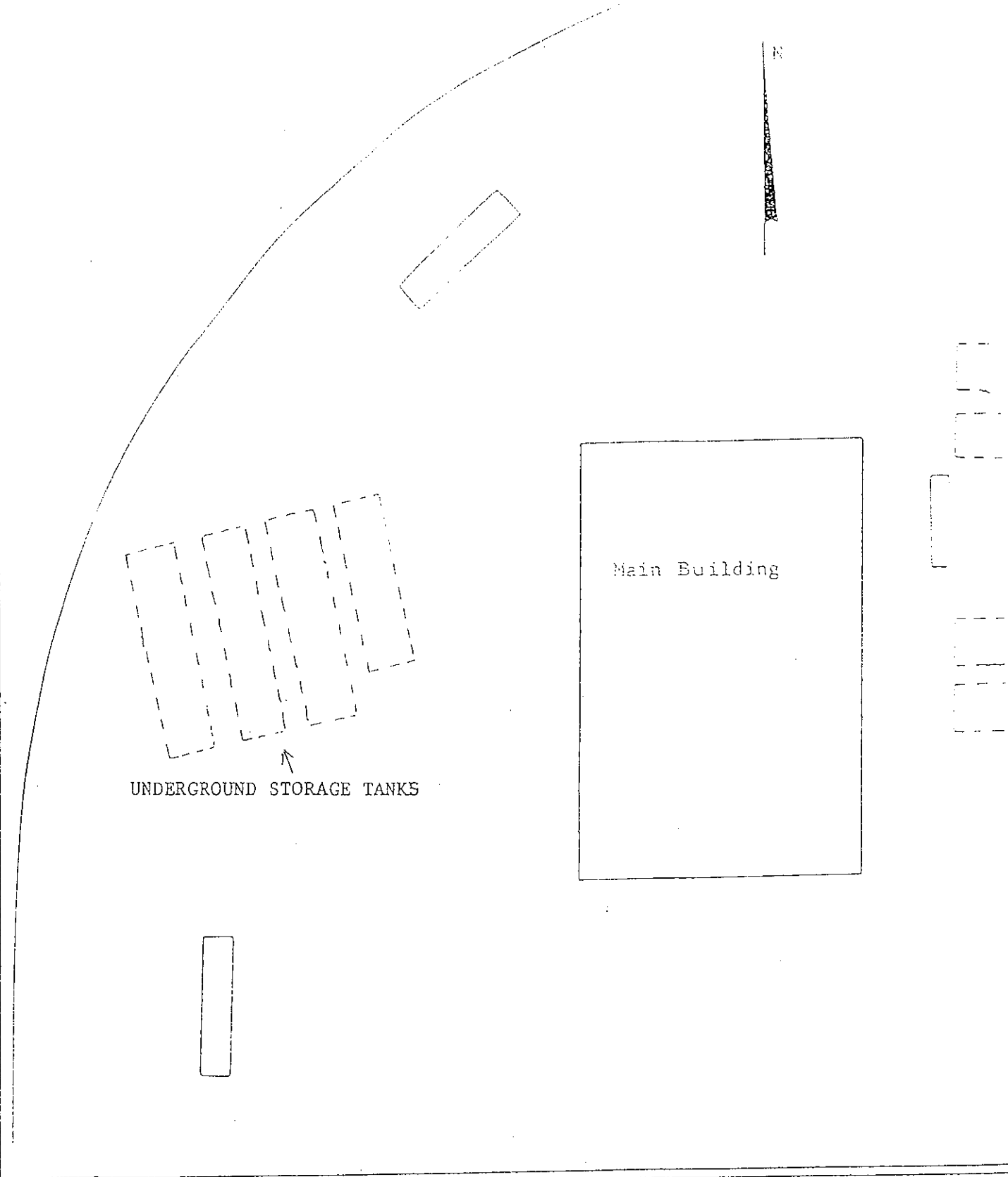
It is our conclusion that the soils immediately adjacent to and beneath the location of the old underground storage tanks were free of petroleum hydrocarbon contamination during tank excavation. Additionally, soils in the vicinity of the new underground storage tanks were free of petroleum hydrocarbon contamination. However further studies will be necessary to delineate the vertical and horizontal extent of petroleum contamination both off site and on as noted in the soil vapor survey issued on 1/24/89. Further studies shall include monitoring well installation, soil borings, soil vapor studies, and analytical testing.

Should you have any questions, please contact us at your convenience.

Sincerely,

Keith Edwards
Manager - UST Department

KE/am



PROJECT SITE
 UNION 76
 NEB KING
 ROXBORO, NORTH CAROLINA

ATEC Associates, Inc.
 of North Carolina
 6814 Davis Circle
 Raleigh, North Carolina 27612
 919-782-2832 Raleigh
 919-223-3519 Newport

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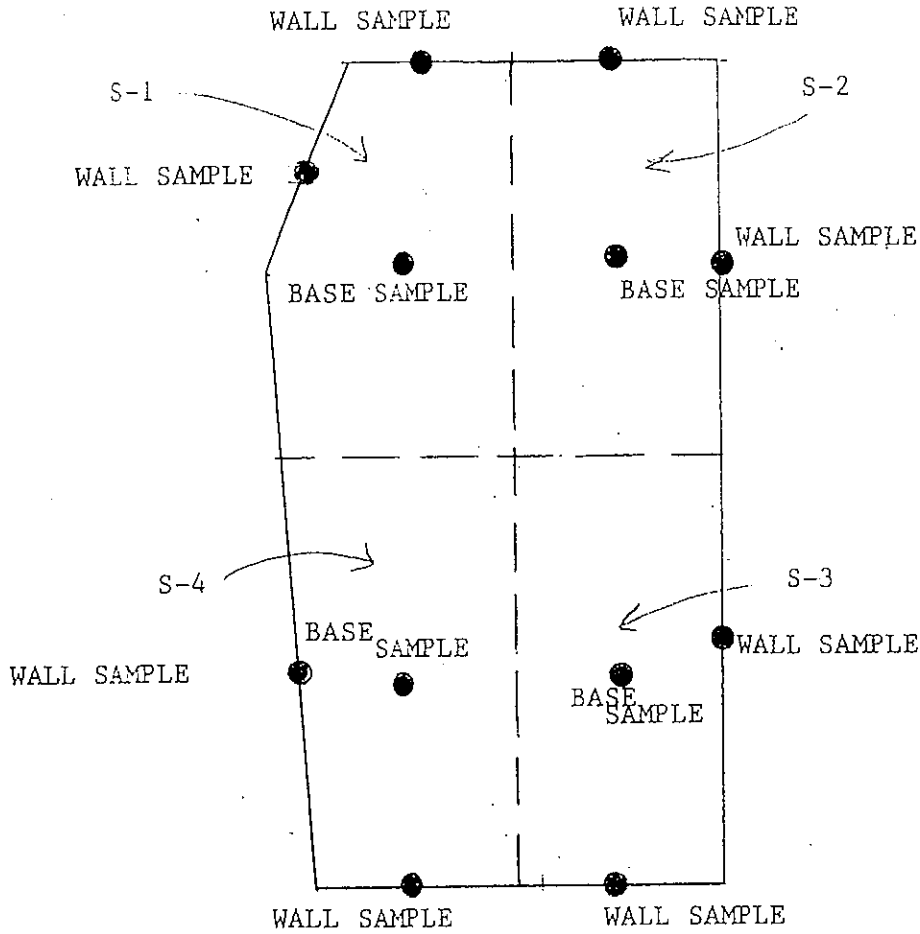
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 3/3/89

PROJECT NO.
 35-88943

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 ATTACHMENT I

EXCAVATED AREA



LOCATION OF COMPOSITE SOIL SAMPLES
 NEB KING PROJECT
 12 FT TO 18 FT BELOW GROUND SURFACE
 1/24/89

ATEC Associates, Inc.
 of North Carolina
 6814 Davis Circle
 Raleigh, North Carolina 27612
 919-782-2832 Raleigh
 919-223-3519 Newport

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PROJECT NO.
 35-88943

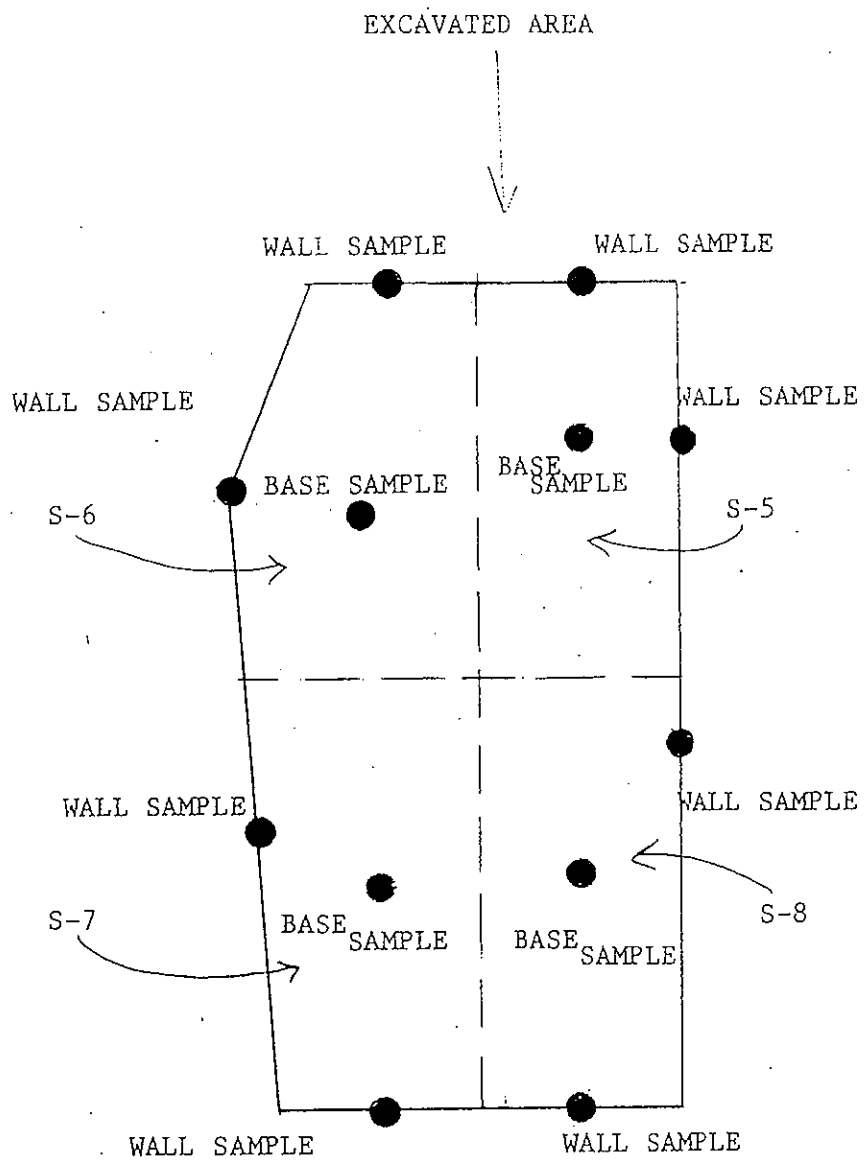
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 ATTACHMENT II

ATTACHMENT III

SOIL/GAS SURVEY RESULTS
12 FT TO 18 FT BELOW GROUND SURFACE
1/24/89

SAMPLE NO.	RESULT
S-1	129.0
S-2	70.3
S-3	126.0
S-4	62.4

NOTE: Each sample is a composite of walls and base.



LOCATION OF COMPOSITE SOIL SAMPLES
 WEB KING PROJECT
 20 FT TO 21 FT BELOW GROUND SURFACE
 1/25/89

ATEC Associates, Inc.
 of North Carolina
 6814 Davis Circle
 Raleigh, North Carolina 27617
 919-782-2832 Raleigh
 919-223-3519 Newport

SCALE: NOT TO SCALE	DRAWN BY: WC	CHECKED BY: BS	DATE: 3/3/89	PROJECT NO. 35-88943	DRAWING NO. ATTACHMENT IV
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ATTACHMENT V

SOIL/GAS SURVEY RESULTS
20 FT. TO 21 FT. BELOW GROUND SURFACE
1/24/89

SAMPLE NO.	RESULT
S-5	5.9
S-6	5.8
S-7	4.0
S-8	4.2

NOTE: Each sample is a composite of walls and base.

ATTACHMENT B

GEOPHYSICAL INVESTIGATION REPORT

EM61 & GPR SURVEYS

**NEB KING PROPERTIES, INC. SITE (PARCEL 11)
Roxboro, North Carolina**

July 16, 2007

**Report prepared for: Mike Branson
Earth Tech, Inc.
701 Corporate Center Drive, Suite 475
Raleigh, North Carolina 27607**

**Prepared by: _____
Mark J. Denil, PG**

**Reviewed by: _____
Douglas Canavello, PG**

**PYRAMID ENVIRONMENTAL & ENGINEERING, P.C.
700 NORTH EUGENE ST.
GREENSBORO, NC 27401
(336) 335-3174**

Earth Tech of North Carolina, Inc.
GEOPHYSICAL INVESTIGATION REPORT
NEB KING PROPERTIES, INC. SITE (PARCEL 11)
Roxboro, North Carolina

TABLE OF CONTENTS

- 1.0 INTRODUCTION
- 2.0 FIELD METHODOLOGY
- 3.0 DISCUSSION OF RESULTS
- 4.0 SUMMARY & CONCLUSIONS
- 5.0 LIMITATIONS

FIGURES

- Figure 1 Geophysical Equipment & Site Photographs
- Figure 2 EM61 Bottom Coil Results
- Figure 3 EM61 Differential Results

1.0 INTRODUCTION

Pyramid Environmental conducted geophysical investigations for Earth Tech of North Carolina, Inc. within the proposed Right-of-Way (ROW) area at the Neb King Properties, Inc. site (Parcel 11) located along the south side of NC 49 (Virginia Road) in Roxboro, North Carolina. The site consists of an active Exxon gas and service station surrounded by an asphalt-covered lot and three sets of pump islands. The geophysical investigation was conducted during the period of June 21-26, 2007 to determine if unknown, metallic, underground storage tanks (USTs) were present beneath the proposed ROW area of the property. The work was done as part of the North Carolina Department of Transportation (NCDOT) road-widening project.

Earth Tech's representative Mr. Michael Branson, PG, provided site maps that outlined the geophysical survey area (ROW area) of the site and visited the site with a Pyramid Environmental representative prior to conducting the investigation. Photographs of the Neb King Properties, Inc. site (Parcel 11) and the geophysical equipment used at this site are shown in **Figure 1**.

2.0 FIELD METHODOLOGY

Prior to conducting the geophysical investigation, a 10-foot by 10-foot survey grid was established across the proposed ROW area of Parcel 11 using water-based marking paint and pin flags. These marks were used as X-Y coordinates for location control when collecting the geophysical data and establishing base maps for the geophysical results.

The geophysical investigations consisted of electromagnetic (EM) induction-metal detection surveys and ground penetrating radar (GPR) surveys. The EM surveys were performed on June 21, 2007, using a Geonics EM61-MK1 metal detection instrument. According to the instrument specifications, the EM61 can detect a metal drum down to a maximum depth of approximately 8 feet. The EM61 data were digitally collected along easterly-westerly parallel survey lines spaced five feet apart. The data were downloaded to a computer and reviewed in the office using the Geonics DAT61W and Surfer for Windows Version 7.0 software programs.

Contour plots of the EM61 bottom coil results and the EM61 differential results for Parcel 11 are presented in **Figures 2 and 3**, respectively. The bottom coil results represent the most sensitive component of the EM61 instrument and detect metal objects regardless of size. The bottom coil response can be used to delineate metal conduits or utility lines, small, isolated metal objects, and areas containing insignificant metal debris.

The differential results are obtained from the difference between the top and bottom coils of the EM61 instrument. The differential results focus on the larger metal objects such as drums and USTs and ignore the smaller insignificant metal objects.

GPR surveys were conducted on June 26, 2007, across selected EM61 differential anomalies using a GSSI SIR-2000 unit equipped with a 400 MHz antenna. GPR data were digitally collected in a continuous mode along X and/or Y survey lines, spaced two to five feet apart using a vertical scan of 512 samples, at a rate of 48 scans per second. An 80 MHz high pass filter and an 800 MHz low pass filter were used during data acquisition with the 400 MHz antenna. GPR data were collected down to a maximum depth of approximately five feet, based on an estimated two-way travel time of 9 nanoseconds per foot. The GPR data were downloaded to a field computer and later reviewed in the field and office using Radprint software. The locations of the GPR lines acquired at Parcel 11 are shown as solid purple lines in Figure 3.

Preliminary contour plots of the EM61 bottom coil and the differential results for the site were emailed to Mr. Branson during the week of July 2, 2007.

3.0 DISCUSSION OF RESULTS

GPR surveys suggest that the high amplitude EM61 anomalies centered near grid coordinates X=115 Y=115 and X=215 Y=170 are probably in response to the steel reinforced concrete and the surrounding pump island related equipment. The high amplitude EM61 anomalies centered near grid coordinates X=153 Y=166 and X=320 Y=165 are probably in response to known utility related

equipment and a metal fence line, respectively. GPR data also suggest that the bottom coil anomaly centered near coordinates X=220 Y=145 is probably in response to buried lines or conduits.

The remaining EM61 anomalies are probably in response to known cultural features and/or to small, miscellaneous metal objects. The geophysical investigation conducted at Parcel 11 suggests that the proposed ROW area does not contain metallic USTs.

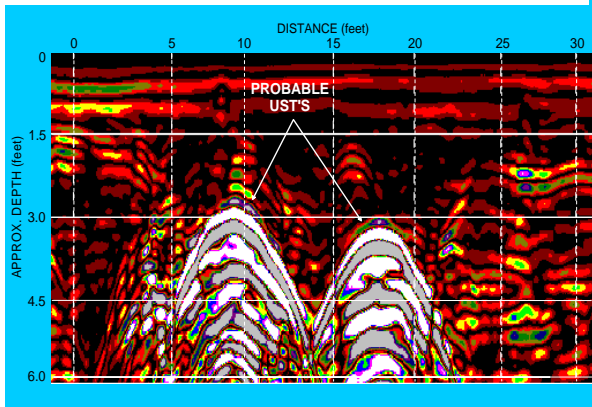
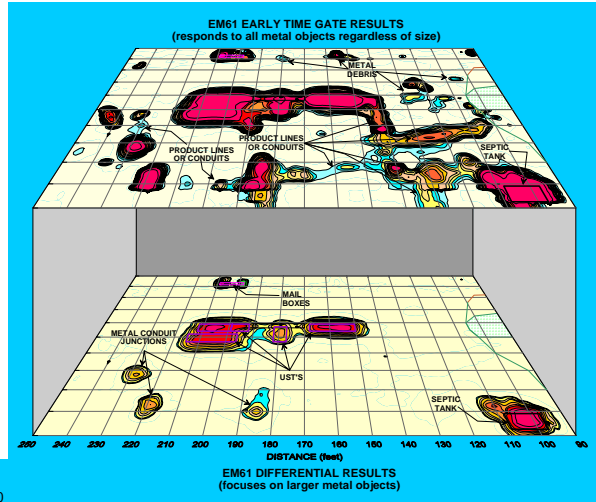
4.0 SUMMARY & CONCLUSIONS

Our evaluation of the EM61 and GPR data collected across the proposed ROW area at the Neb King Properties, Inc. site (Parcel 11) located in Roxboro, North Carolina, provides the following summary and conclusions:

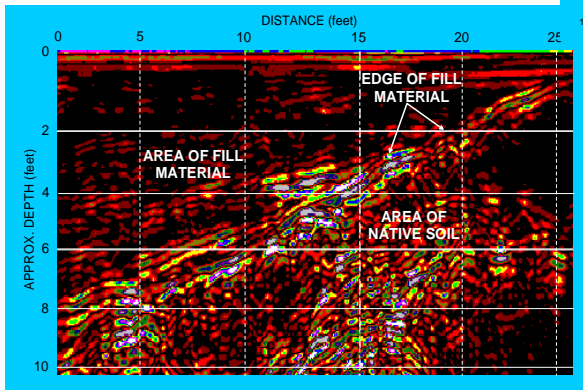
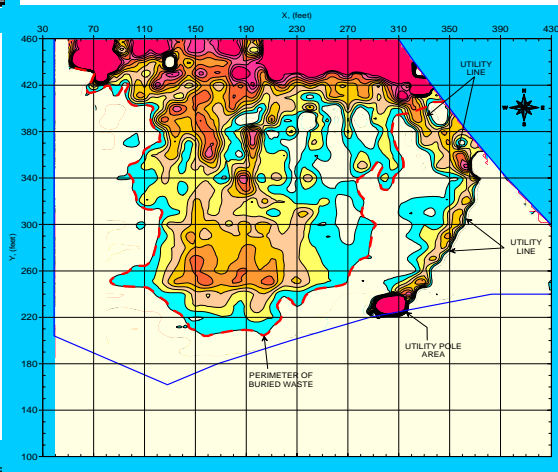
- The EM61 and GPR surveys provided reliable results for the detection of metallic USTs within the surveyed portions of the proposed ROW area of the site.
- GPR surveys suggest that the high amplitude EM61 anomalies centered near grid coordinates X=115 Y=115 and X=215 Y=170 are probably in response to the steel reinforced concrete and the surrounding pump island related equipment.
- The remaining EM61 anomalies are probably in response to known cultural features and/or to small, miscellaneous metal objects.
- The geophysical investigation conducted at Parcel 11 suggests that the proposed ROW area does not contain metallic USTs.

5.0 LIMITATIONS

EM61 and GPR surveys have been performed and this report prepared for Earth Tech of North Carolina, Inc. in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the EM61 and GPR are non-unique and may not represent actual subsurface conditions. The EM61 and GPR results obtained for this project do not conclusively determine that the proposed ROW area does not contain metallic USTs but that none were detected.



FIGURES
(on the following pages)



The photo shows the Geonics EM61 metal detector that was used to conduct the metal detection survey at Parcel 11 on June 21, 2007.



The photos show the SIR-2000 GPR system equipped with a 400 MHz antenna that were used to conduct the ground penetrating radar investigation at Parcel 11 on June 26, 2007.



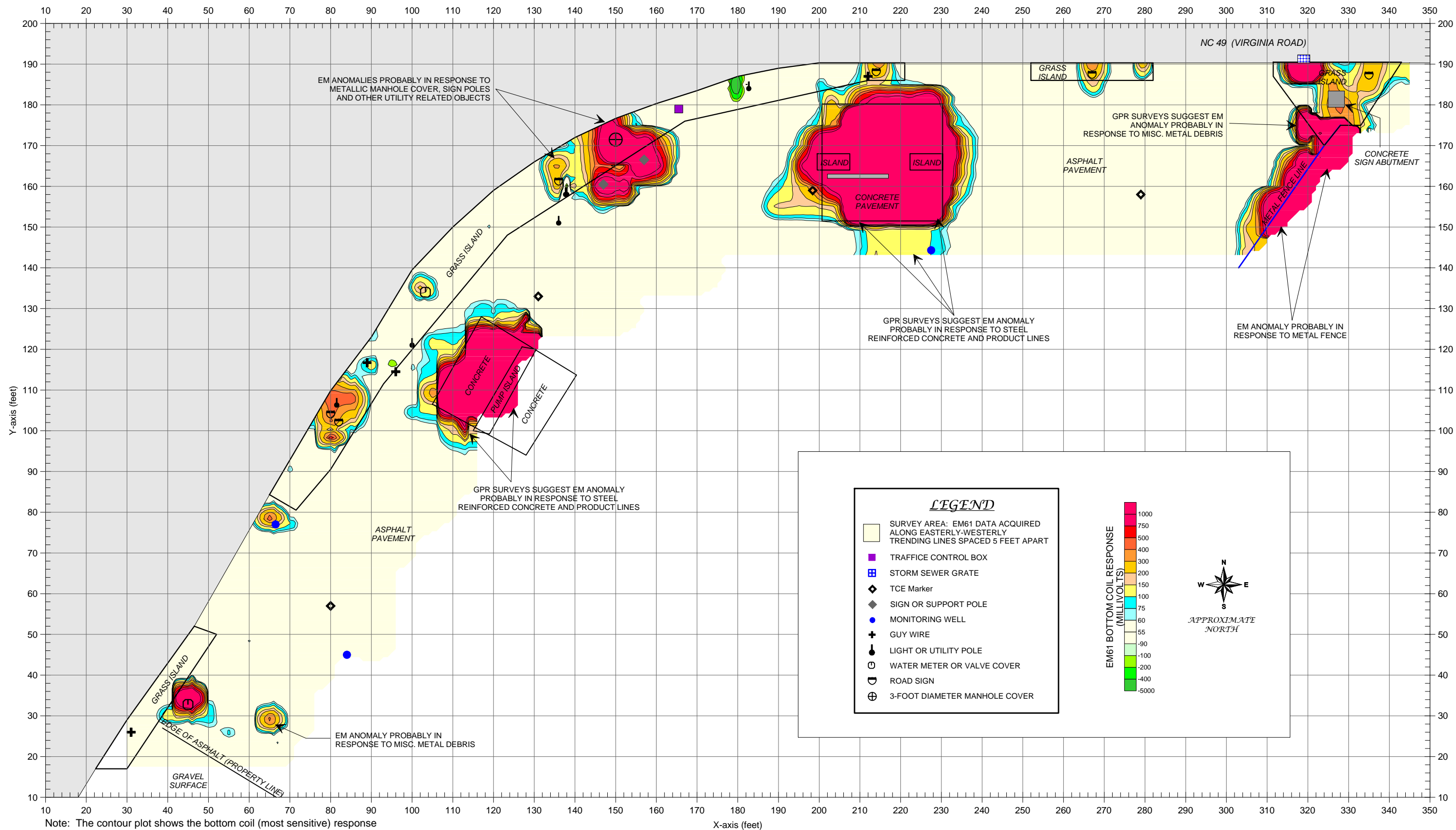
The photograph shows a portion of the geophysical survey area located at Parcel 11. The photo is viewed in a southwesterly direction.



CLIENT	EARTH TECH OF NORTH CAROLINA, INC.		DATE	07/12/07	BY	MJD
SITE	NEB KING PROPERTIES, INC SITE - PARCEL 11		LAY		OPND	
CITY	ROXBORO	STATE	NORTH CAROLINA	ENG		
TITLE	GEOPHYSICAL RESULTS		PLNG	2007-163	PROJ#	

PHOTOGRAPHS OF
GEOPHYSICAL EQUIPMENT
& SURVEY AREA

FIGURE 1



Note: The contour plot shows the bottom coil (most sensitive) response of the EM61 instrument in millivolts (mV). The bottom coil response shows buried metallic objects regardless of size. The EM metal detection data were collected on June 21, 2007 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on June 26, 2007 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

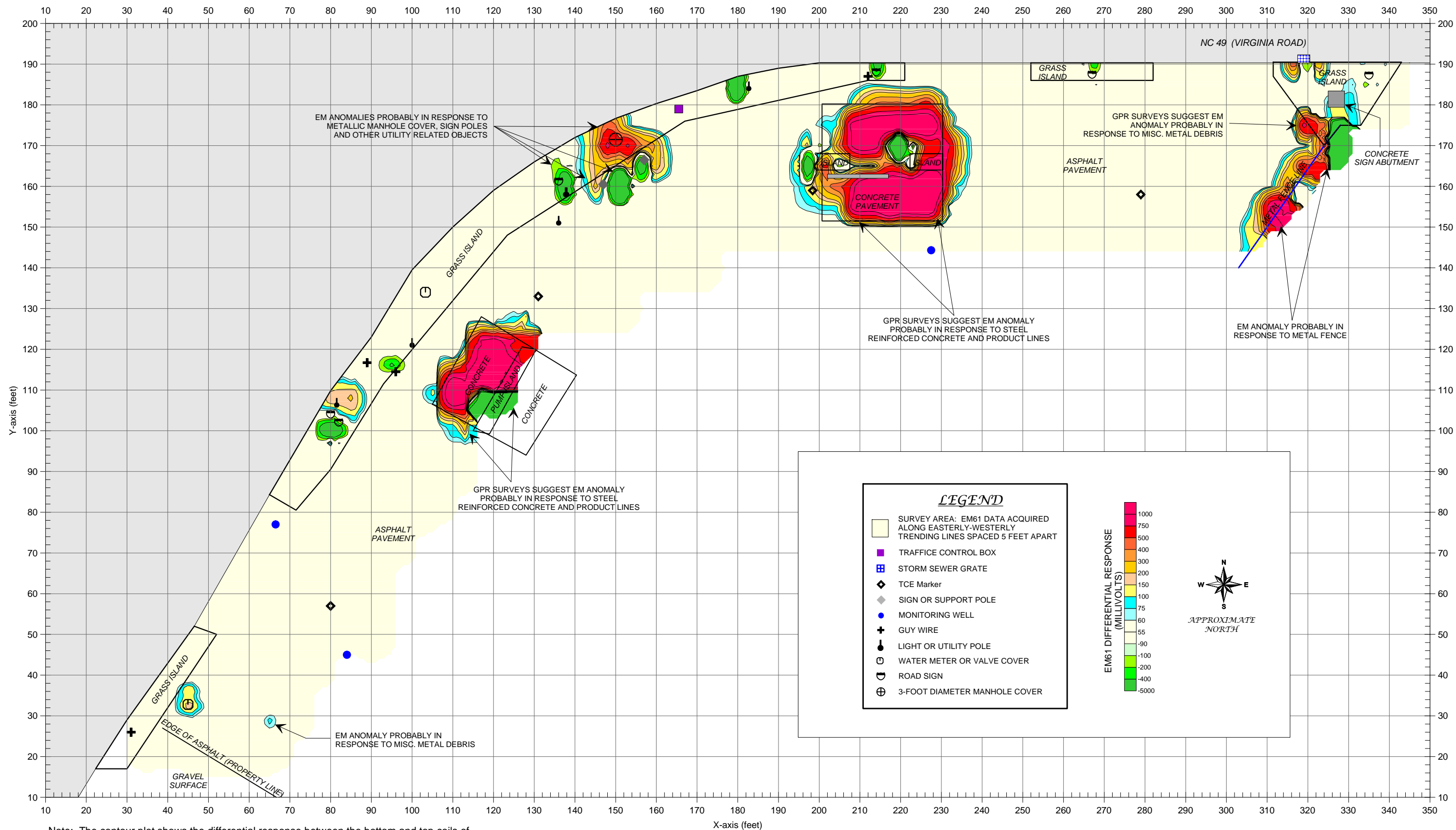
The geophysical investigation suggest that the surveyed portion of the site does not contain metallic USTs.



CLIENT	EARTH TECH OF NORTH CAROLINA, INC.		DATE	07/12/07	DRWN	MJD
SITE	NEB KING PROPERTIES, INC SITE - PARCEL 11		LAY		CHKD	
CITY	ROXBORO	STATE	NORTH CAROLINA	DWG		
TITLE	GEOPHYSICAL RESULTS		JNO	2007-163	FIGURE	

**EM61
BOTTOM COIL
RESULTS**

FIGURE 2



Note: The contour plot shows the differential response between the bottom and top coils of the EM61 instrument in millivolts (mV). The differential response focuses on larger, buried metallic objects such as drums and UST's and ignores smaller miscellaneous, buried, metal debris. The EM61 data were collected on June 21, 2007 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on June 26, 2007 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The geophysical investigation suggest that the surveyed portion of the site does not contain metallic USTs.



CLIENT	EARTH TECH OF NORTH CAROLINA, INC.		DATE	07/12/07	DRWN	MJD
SITE	NEB KING PROPERTIES, INC SITE - PARCEL 11		LAY		CHKD	
CITY	ROXBORO	STATE	NORTH CAROLINA	DWG		
TITLE	GEOPHYSICAL RESULTS		NO.	2007-163	FIGURE	

EM61 DIFFERENTIAL RESULTS

FIGURE 3

ATTACHMENT C

TEST BORING REPORT

PROJECT KING PROPERTY (PARCEL 11)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER KI-1
PAGE 1
ELEVATION _____
DATE JULY 11, 2007
DRILLER OPPER
PREPARED BY BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			65		4" ASPHALT/GRAVEL, MEDIUM TO REDDISH BROWN SILT/CLAY, DRY, NO ODOR.
			124		MEDIUM BROWN SILT, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
			62		AS ABOVE, DRY, NO ODOR.
10.0			14.85		OLIVE GREEN/GRAY SILT, BECOMING HARD, DRY, NO ODOR.
			3.13		AS ABOVE, BECOMING HARD, REFUSAL AT 10 FEET, DRY, NO ODOR.
					REFUSAL AT 10 FEET. NO GROUNDWATER ENCOUNTERED.
15.0					
20.0					

TEST BORING REPORT

PROJECT KING PROPERTY (PARCEL 11)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER KI-2
PAGE 1
ELEVATION _____
DATE JULY 11, 2007
DRILLER OPPER
PREPARED BY BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			58		4" ASPHALT/GRAVEL, MEDIUM TO REDDISH BROWN SILT/CLAY, DRY, NO ODOR.
			432		AS ABOVE TO 3 FEET, BECOMES MEDIUM BROWN TO OLIVE GREEN/GRAY SILTY CLAY, DRY, SLIGHT ODOR.
			63		MEDIUM BROWN SILTY CLAY, MOIST, SLIGHT ODOR.
			63		AS ABOVE, MOIST, SLIGHT ODOR.
			1710		AS ABOVE, BECOMING HARD, REFUSAL AT 10 FEET, DRY, SLIGHT ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
					REFUSAL AT 10 FEET. NO GROUNDWATER ENCOUNTERED.
10.0					
15.0					
20.0					

TEST BORING REPORT

PROJECT KING PROPERTY (PARCEL 11)

CLIENT NCDOT (R-2241A)

PROJECT NUMBER 100407 (34406.1.1)

CONTRACTOR REGIONAL PROBING

EQUIPMENT GEOPROBE

BORING NUMBER KL-3

PAGE 1

ELEVATION _____

DATE JULY 11, 2007

DRILLER OPPER

PREPARED BY BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS	
5.0			362		4" ASPHALT/GRAVEL, MULTICOLORED, MULTILAYERED FILL MATERIAL, DRY, MODERATE ODOR.	
			5052			MEDIUM BROWN SILT, DRY, SLIGHT ODOR.
			31,200			MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/CLAY, DRY, MODERATE ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
10.0			11,300		AS ABOVE, DRY, STRONG ODOR.	
			941		AS ABOVE, BECOMING HARD, REFUSAL AT 10 FEET, DRY, SLIGHT ODOR.	
					REFUSAL AT 10 FEET. NO GROUNDWATER ENCOUNTERED.	
15.0						
20.0						

TEST BORING REPORT

PROJECT KING PROPERTY (PARCEL 11)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER **KI-4**
PAGE 1
ELEVATION _____
DATE JULY 11, 2007
DRILLER OPPER
PREPARED BY BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			228		4" ASPHALT/GRAVEL, MEDIUM TO REDDISH BROWN SILT/CLAY, DRY, MODERATE ODOR. MEDIUM BROWN PLASTIC SILTY CLAY, DRY, MODERATE ODOR. SUBMIT TO LABORATORY FOR ANALYSIS. AS ABOVE, MOIST, MODERATE ODOR. AS ABOVE, MOIST, MODERATE ODOR. AS ABOVE, BECOMING HARD, REFUSAL AT 11 FEET, DRY, SLIGHT ODOR. REFUSAL AT 11 FEET. GROUNDWATER PRESENT IN BORING AT COMPLETION, DEPTH UNKNOWN.
10.0			3170		
15.0			370		
20.0			1981		
			443		

TEST BORING REPORT

PROJECT KING PROPERTY (PARCEL 11)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER KI-5
PAGE 1
ELEVATION _____
DATE JULY 11, 2007
DRILLER OPPER
PREPARED BY BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
			51		4" ASPHALT/GRAVEL, MEDIUM TO REDDISH BROWN SILT/CLAY, DRY, NO ODOR.
			96		AS ABOVE, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
5.0			26		MOTTLED MEDIUM BROWN, OLIVE GREEN, AND TAN SILTY CLAY, DRY, NO ODOR.
			27		AS ABOVE, DRY, NO ODOR.
			15.93		AS ABOVE, DRY, NO ODOR.
10.0			17.33		AS ABOVE, BECOMONG HARD, REFUSAL AT 11.5 FEET, DRY, NO ODOR
					REFUSAL AT 11.5 FEET. NO GROUNDWATER ENCOUNTERED.
15.0					
20.0					

TEST BORING REPORT

PROJECT KING PROPERTY (PARCEL 11)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER KI-6
PAGE 1
ELEVATION
DATE JULY 11, 2007
DRILLER OPPER
PREPARED BY BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			4.91		4" ASPHALT/GRAVEL, MULTICOLORED BACKFILL MATERIAL, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
			3.59		AS ABOVE, DRY, NO ODOR.
			3.75		AS ABOVE, DRY, NO ODOR.
10.0			1.15		AS ABOVE, DRY, NO ODOR.
			2.70		AS ABOVE, DRY, NO ODOR.
			1.43		AS ABOVE, MOIST, NO ODOR.
15.0			1.77		AS ABOVE MOIST, SOFT, NO ODOR.
					NO RECOVERY
			1.14		MOTTLED RED BROWN AND OLIVE GREEN/GRAY SILTY CLAY, DRY, SLIGHT ODOR.
20.0					BORING TERMINATED AT 18 FEET. NO GROUNDWATER ENCOUNTERED.

TEST BORING REPORT

PROJECT KING PROPERTY (PARCEL 11)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER KL-7
PAGE 1
ELEVATION _____
DATE JULY 11, 2007
DRILLER OPPER
PREPARED BY BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
			54		4" ASPHALT/GRAVEL, REDDISH BROWN SILT/CLAY, DRY, NO ODOR.
			81		AS ABOVE, DRY, NO ODOR.
5.0			59		MOTTLED MEDIUM BROWN AND GRAY SILTY CLAY, DRY, NO ODOR.
			53		AS ABOVE, DRY, NO ODOR.
10.0			294		AS ABOVE, BECOMING HARD, REFUSAL AT 10 FEET, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
					REFUSAL AT 10 FEET. NO GROUNDWATER ENCOUNTERED.
15.0					
20.0					

TEST BORING REPORT

PROJECT KING PROPERTY (PARCEL 11)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER **KI-8**
PAGE 1
ELEVATION _____
DATE JULY 11, 2007
DRILLER OPPER
PREPARED BY BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS	
5.0			0.79		4" ASPHALT/GRAVEL, REDDISH BROWN SILT/CLAY, DRY, NO ODOR.	
				1.50		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/CLAY, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
				0.81		AS ABOVE, DRY, NO ODOR.
				0.96		AS ABOVE, DRY, NO ODOR.
				0.01		AS ABOVE, BECOMING HARD, REFUSAL AT 11 FEET, DRY, NO ODOR.
10.0					REFUSAL AT 11 FEET. NO GROUNDWATER ENCOUNTERED.	
15.0						
20.0						

TEST BORING REPORT

PROJECT <u>KING PROPERTY (PARCEL 11)</u> CLIENT <u>NCDOT (R-2241A)</u> PROJECT NUMBER <u>100407 (34406.1.1)</u> CONTRACTOR <u>REGIONAL PROBING</u> EQUIPMENT <u>GEOPROBE</u>	BORING NUMBER <u> KI-9 </u> PAGE <u> 1 </u> ELEVATION _____ DATE <u> JULY 11, 2007 </u> DRILLER <u> OPPER </u> PREPARED BY <u> BRANSON </u>
---	---

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			232		4" ASPHALT/GRAVEL, MULTICOLORED, MULTILAYERED FILL MATERIAL, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
			86		
			14		
10.0			3.12		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/CLAY, STIFF, DRY, NO ODOR.
			10.81		
15.0					AS ABOVE, DRY, NO ODOR.
20.0					BORING TERMINATED AT 12 FEET. NO GROUNDWATER ENCOUNTERED.

ATTACHMENT D



PHOTO 1 - BORINGS AT KING PROPERTY LOOKING NORTH AT PUMP ISLAND



PHOTO 2 - BORING AT KING PROPERTY LOOKING EAST FROM STREET



PHOTO 3 - BORINGS AT KING PROPERTY LOOKING SOUTH FROM STREET



PHOTO 4 - BORING AT KING PROPERTY LOOKING SOUTH FROM SIGN



PHOTO 5 - BORINGS AT KING PROPERTY LOOKING NORTHEAST FROM SIGN



PHOTO 6 - BORINGS ON KING PROPERTY LOOKING SOUTHWEST FROM STREET

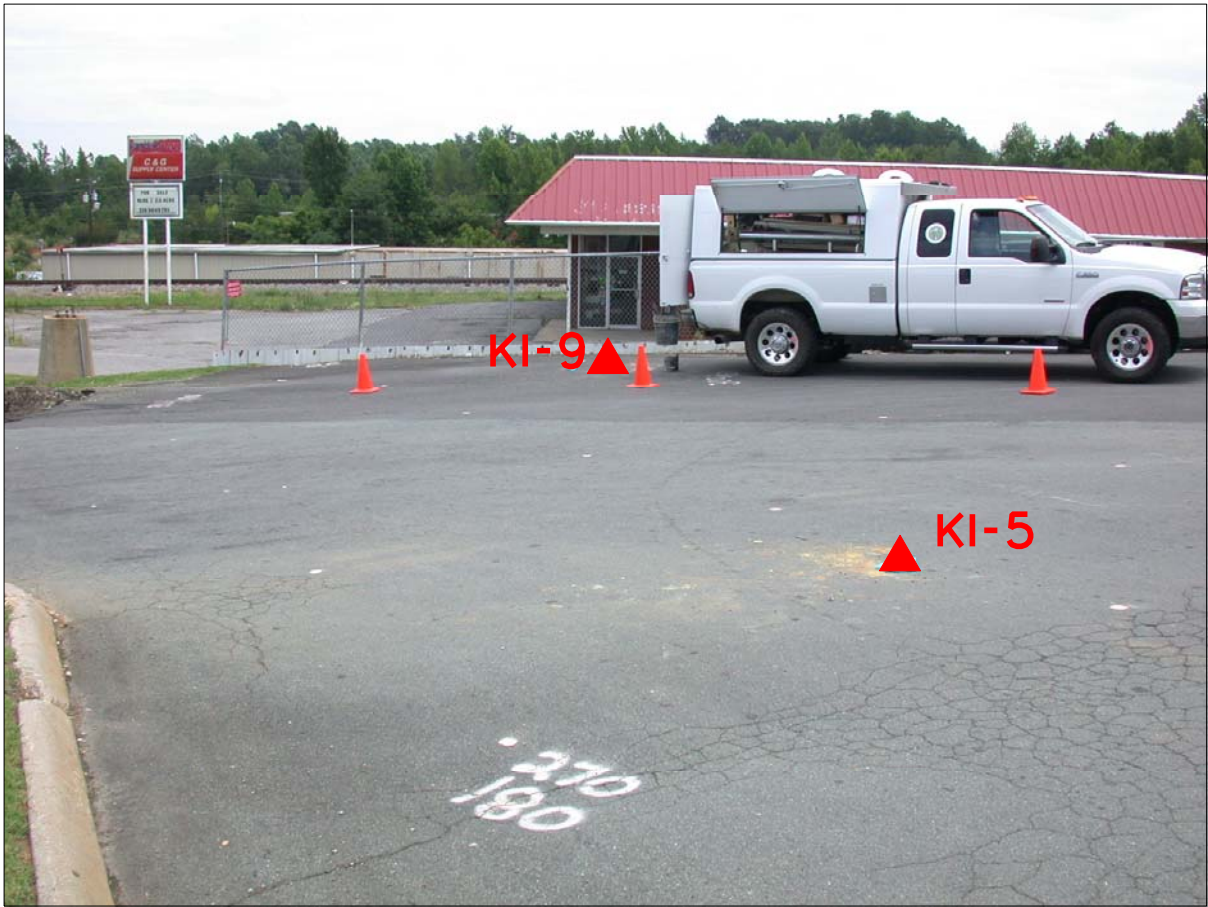


PHOTO 7 - BORINGS ON KING PROPRTY LOOKING WEST FROM THE STREET

ATTACHMENT E



PRISM
LABORATORIES, INC.

Case Narrative

Date: 07/30/07
Company: N. C. Department of Transportation
Contact: Mike Branson
Address: c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Client Project ID: NCDOT - King
Prism COC Group No: G0707332
Collection Date(s): 07/11/07
Lab Submittal Date(s): 07/12/07

Client Project Name Or No: WBS# 34406.1.1

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 12 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

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

Semi Volatile Analysis

No Anomalies Reported

Volatile Analysis

No Anomalies Reported

Metals Analysis

N/A

Wet Lab and Micro Analysis

N/A

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

Date Reviewed by: Paula A. Gilleland

Project Manager: Angela D. Overcash

Signature: *Paula A. Gilleland*

Signature: *Angela D. Overcash*

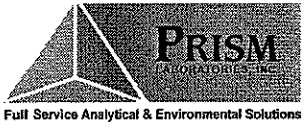
Review Date: 07/30/07

Approval Date: 07/30/07

Data Qualifiers Key Reference:

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

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



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

Laboratory Report

07/30/07

N. C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - King
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: KI-1
 Prism Sample ID: 186946
 COC Group: G0707332
 Time Collected: 07/11/07 10:30
 Time Submitted: 07/12/07 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	87.7	%			1	SM2540 G	07/24/07 17:45	ddixon	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	5.6 J	mg/kg	7.9	2.0	1	8015B	07/24/07 19:13	jvogel	Q25259
Sample Preparation:				25.3 g	/	1 mL	3545	07/23/07 15:30	wconder P18972
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	111	49 - 124	
Sample Weight Determination									
Weight 1	8.10	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	7.32	g			1	GRO	07/17/07 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.7	0.59	50	8015B	07/20/07 10:46	hwagner	Q25151
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	87	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

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



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

Laboratory Report

07/30/07

N. C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - King
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: KI-2
 Prism Sample ID: 186947
 COC Group: G0707332
 Time Collected: 07/11/07 10:50
 Time Submitted: 07/12/07 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	90.3	%			1	SM2540 G	07/24/07 17:45	ddixon	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	7.6	0.96	1	8015B	07/24/07 17:23	jvogel	Q25259
Sample Preparation:			25.48 g	/	1 mL	3545	07/23/07 15:30	wconder	P18972
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	105	49 - 124	
Sample Weight Determination									
Weight 1	5.52	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	4.60	g			1	GRO	07/17/07 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.5	0.58	50	8015B	07/20/07 11:17	hwagner	Q25151
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	69	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

Laboratory Report

07/30/07

N. C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - King
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: KI-3
 Prism Sample ID: 186948
 COC Group: G0707332
 Time Collected: 07/11/07 11:10
 Time Submitted: 07/12/07 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	69.7	%			1	SM2540 G	07/24/07 17:45	ddixon	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	260	mg/kg	250	6.3	5	8015B	07/25/07 11:58	lvogel	Q25259
Sample Preparation:			25.13 g	/	1 mL	3545	07/23/07 15:30	wconder	P18972
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	104	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	5.01	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	5.89	g			1	GRO	07/17/07 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	1100	mg/kg	72	7.5	500	8015B	07/20/07 12:20	hwagner	Q25151
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	DO #	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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



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

Laboratory Report

07/30/07

N. C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - King
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: KI-4
 Prism Sample ID: 186949
 COC Group: G0707332
 Time Collected: 07/11/07 11:30
 Time Submitted: 07/12/07 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	86	%			1	SM2540 G	07/24/07 17:45	ddixon	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	210	mg/kg	8.0	1.0	1	8015B	07/25/07 10:45	jvoegel	Q25259
Sample Preparation:			25.3 g	/	1 mL	3545	07/23/07 15:30	wconder	P18972
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	119	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	7.13	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	7.00	g			1	GRO	07/17/07 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	2500	mg/kg	120	12	1000	8015B	07/20/07 12:51	hwagner	Q25151
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	DO #	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

Laboratory Report

07/30/07

N. C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - King
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: KI-5
 Prism Sample ID: 186950
 COC Group: G0707332
 Time Collected: 07/11/07 11:50
 Time Submitted: 07/12/07 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	87.3	%			1	SM2540 G	07/24/07 17:45	ddixon	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	31	mg/kg	7.9	0.99	1	8015B	07/24/07 20:28	jvogel	Q25259
Sample Preparation:			25.32 g	/	1 mL	3545	07/23/07 15:30	wconder	P18972
					Surrogate		% Recovery	Control Limits	
					o-Terphenyl		115	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	7.58	g			1	GRO	07/30/07 0:00	lbrown	
Weight 2	6.42	g			1	GRO	07/30/07 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.7	0.60	50	8015B	07/20/07 11:49	hwagner	Q25151
					Surrogate		% Recovery	Control Limits	
					aaa-TFT		82	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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NC Certification No. 402
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Laboratory Report

07/30/07

N. C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - King
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: KI-6
 Prism Sample ID: 186951
 COC Group: G0707332
 Time Collected: 07/11/07 12:15
 Time Submitted: 07/12/07 17:00

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

Percent Solids	83.7	%			1	SM2540 G	07/24/07 17:45	ddixon	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	53	mg/kg	8.2	1.0	1	8015B	07/25/07 3:51	lvogel	Q25259
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Sample Preparation: 25.36 g / 1 mL 3545 07/23/07 15:30 wconder P18972

Surrogate	% Recovery	Control Limits
o-Terphenyl	121	49 - 124

Sample Weight Determination

Weight 1	6.27	g			1	GRO	07/17/07 0:00	lbrown	
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Weight 2	7.05	g			1	GRO	07/17/07 0:00	lbrown	
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Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	0.62	50	8015B	07/20/07 1:57	hwagner	Q25151
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Surrogate	% Recovery	Control Limits
aaa-TFT	64	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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NC Certification No. 402
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Laboratory Report

07/30/07

N. C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - King
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: KI-7
 Prism Sample ID: 186952
 COC Group: G0707332
 Time Collected: 07/11/07 12:30
 Time Submitted: 07/12/07 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	74.6	%			1	SM2540 G	07/24/07 17:45	ddixon	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	9.3	1.2	1	8015B	07/25/07 0:09	jvogel	Q25259
Sample Preparation:			25.17 g	/	1 mL	3545	07/23/07 15:30	wconder	P18972
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	111	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	6.45	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	6.23	g			1	GRO	07/17/07 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.7	0.70	50	8015B	07/20/07 19:47	hwagner	Q25198
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	89	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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NC Certification No. 402
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Laboratory Report

07/30/07

N. C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - King
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: KI-8
 Prism Sample ID: 186953
 COC Group: G0707332
 Time Collected: 07/11/07 13:00
 Time Submitted: 07/12/07 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.8	%			1	SM2540 G	07/24/07 17:45	ddixon	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	15	mg/kg	8.5	1.1	1	8015B	07/25/07 1:23	lvogel	Q25259
Sample Preparation:				25.1 g	/	1 mL	3545	07/23/07 15:30	wconder P18972
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	112	49 - 124	
Sample Weight Determination									
Weight 1	7.03	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	6.52	g			1	GRO	07/17/07 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	0.64	50	8015B	07/20/07 20:18	hwagner	Q25198
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	91	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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NC Certification No. 402
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Laboratory Report

07/30/07

N. C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - King
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: KI-9
 Prism Sample ID: 186954
 COC Group: G0707332
 Time Collected: 07/11/07 13:30
 Time Submitted: 07/12/07 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	84.9	%			1	SM2540 G	07/24/07 17:45	ddixon	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	25	mg/kg	8.2	1.0	1	8015B	07/25/07 11:22	jvogel	Q25259
Sample Preparation:			25.24 g	/	1 mL	3545	07/23/07 15:30	wconder	P18972
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	122	49 - 124	
Sample Weight Determination									
Weight 1	7.08	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	7.65	g			1	GRO	07/17/07 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.9	0.61	50	8015B	07/20/07 20:49	hwagner	Q25198
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	74	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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NC Certification No. 402
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Level II QC Report

7/30/07

N. C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - King
 Project No.: WBS# 34406.1.1

COC Group Number: G0707332
 Date/Time Submitted: 7/12/07 17:00

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

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg	Q25151

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Gasoline Range Organics (GRO)	50	50	mg/kg	100	67-116	Q25151

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
186801 Gasoline Range Organics (GRO)	43.4	50	mg/kg	87	57-113	Q25151

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
186801 Gasoline Range Organics (GRO)	44.05	50	mg/kg	88	57-113	1	0 - 23	Q25151

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

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg	Q25198

Laboratory Control Sample

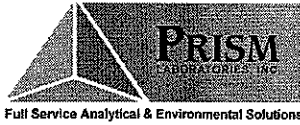
	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Gasoline Range Organics (GRO)	48.75	50	mg/kg	98	67-116	Q25198

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
186952 Gasoline Range Organics (GRO)	36.15	50	mg/kg	72	57-113	Q25198

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
186952 Gasoline Range Organics (GRO)	42.6	50	mg/kg	85	57-113	16	0 - 23	Q25198



NC Certification No. 402
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Level II QC Report

7/30/07

N. C. Department of Transportation
 Attn: Mike Branson
 c/o Earth Tech Remediation
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project ID: NCDOT - King
 Project No.: WBS# 34406.1.1

COC Group Number: G0707332
 Date/Time Submitted: 7/12/07 17:00

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

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg	Q25259

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Diesel Range Organics (DRO)	81.2	80	mg/kg	102	55-109	Q25259

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
186950 Diesel Range Organics (DRO)	89.5	80	mg/kg	79	50-117	Q25259

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
186950 Diesel Range Organics (DRO)	85.9	80	mg/kg	74	50-117	4	0 - 24	Q25259

#-See Case Narrative



Full Service Analytical & Environmental Solutions
 449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
 Phone: 704/528-6364 • Fax: 704/525-0408

PAGE _____ OF _____ QUOTE # TO ENSURE PROPER BILLING: _____
 Project Name: WOOD - H.W.G
 Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
 *Please ATTACH any project specific reporting (QC LEVEL I II III IV)
 provisions and/or QC Requirements
 Invoice To: NEDOT
 Address: _____

Client Company Name: EAETH TEST
 Report To/Contact Name: MICHAEL BRANSON
 Reporting Address: 701 CORPORATE CENTER
STE 475 RALEIGH NC 27607

Phone: 9198541238 Fax: (919) 9198546259
 Email: (919) Email Address: Mike.Branson@eaeth.com
 EDD Type: PDF Excel Other: RDS
 Site Location Name: Box 3000
 Site Location Physical Address: _____

Purchase Order No./Billing Reference: UBS# 34406.1.1
 Requested Due Date: 1 Day 2 Days 3 Days 4 Days 5 Days
 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved
 "Working Days"
 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 _____

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

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				
KE-1	7/11/07	1030	Soil	CG	3	4oz/100m	MeOH	✓		186946
KE-2	7/11/07	1050	Soil	CG	3	4oz/100m	MeOH	✓		186947
KE-3	7/11/07	1110	Soil	CG	3	4oz/100m	MeOH	✓		186948
KE-4	7/11/07	1130	Soil	CG	3	4oz/100m	MeOH	✓		186949
KE-5	7/11/07	1150	Soil	CG	3	4oz/100m	MeOH	✓		186950
KE-6	7/11/07	1215	Soil	CG	3	4oz/100m	MeOH	✓		186951
KE-7	7/11/07	1230	Soil	CG	3	4oz/100m	MeOH	✓		186952
KE-8	7/11/07	1300	Soil	CG	3	4oz/100m	MeOH	✓		186953
KE-9	7/11/07	1330	Soil	CG	3	4oz/100m	MeOH	✓		186954

Sampler's Signature: [Signature] Sampled By (Print Name): Mr. Branson Affiliation: EAETH TEST

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) [Signature] Received By: (Signature) Michael Branson Date: 7-12-07 Military/Hours: 1230

Relinquished By: (Signature) [Signature] Requested By: (Signature) [Signature] Date: 7-22-07 Military/Hours: 1350

Relinquished By: (Signature) [Signature] Requested For Prism Laboratories By: [Signature] Date: 7/11/07 Military/Hours: 1700

Method of Shipment: Hand-Delivered 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. G0407332

Additional Comments: Invoice NOT Under Blanket PO

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL