

PRELIMINARY SITE ASSESSMENT

**PARCEL #107, COUNTRY SIDE CLEANERS / AUTO SALES
CHARLOTTE – US 74 (INDEPENDENCE BOULEVARD) FROM NC 24 - 27
(ALBEMARLE ROAD) TO IDELWILD ROAD
MECKLENBURG COUNTY, NORTH CAROLINA**

**NCDOT WBS ELEMENT 3479.1.1
STATE PROJECT U-0209B**

August 20, 2010

Prepared for:

**Ethan J. Caldwell, L.G., P. E.
North Carolina Department of Transportation
Geotechnical Engineering Unit
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, North Carolina 27699-1589**

Prepared by:

**Kleinfelder Southeast, Inc.
313 Gallimore Dairy Road
Greensboro, North Carolina 27409**

Kleinfelder Project No. 111989

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PROJECT FOR WHICH THIS REPORT WAS PREPARED.**



August 20, 2010
File No. 111989 | GSO10R155

Ethan J. Caldwell, L.G., P. E.
North Carolina Department of Transportation
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Reference: **Preliminary Site Assessment**
WBS Element No. 34749.1.1, State Project U-0209B
Parcel #107, Country Side Cleaners / Auto Sales
Mecklenburg County, North Carolina

Dear Mr. Caldwell:

Please find enclosed a report summarizing the sampling activities for the preliminary site assessment conducted at the referenced site. Laboratory analysis of soil samples collected at the site did not detect petroleum or volatile hydrocarbon concentrations above the method detection limits of the laboratory methods. This report summarizes our field activities, results, laboratory report, and conclusions.

Should questions arise or additional information be required, please contact the undersigned.

Sincerely,

Kleinfelder Southeast, Inc.


Annamarie Blausen
Staff Professional I


John M. Stewart, P.G.
Senior Professional

AB/JMS:cas
Enclosure

PRELIMINARY SITE ASSESSMENT

Site Name and Location: Parcel #107, Country Side Cleaners / Auto Sales Property
5516 E. Independence Blvd.
Charlotte, Mecklenburg County, North Carolina

Latitude and Longitude: 35° 11' 4" N, 80° 45' 28" W

Facility ID Number: None Given

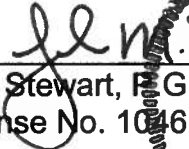
NCDOT Project No.: NCDOT WBS Element 34749.1.1
State Project U-0209B

Date of Report: August 20, 2010

Consultant: Kleinfelder
313 Gallimore Dairy Road
Greensboro, North Carolina 27409
Attn: Mr. John M. Stewart
Phone: 336.668.0093 X115

Seal and Signature of Certifying Licensed Geologist

I, John M. Stewart, a Licensed Geologist for Kleinfelder Southeast, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.



John M. Stewart, P.G.
NC License No. 1046

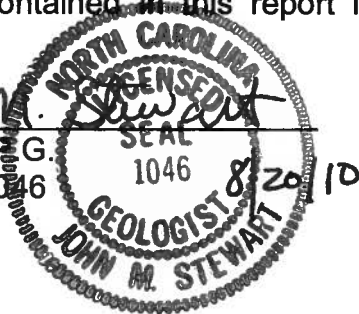


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- C Boring Logs
- D Laboratory Report

1.0 INTRODUCTION

Kleinfelder Southeast, Inc. (Kleinfelder) has prepared this Preliminary Site Assessment (PSA) report documenting assessment activities performed at the former Country Side Cleaners / Auto Sales property (Parcel 107) located at 5516 East Independence Boulevard (US 74) in Charlotte, Mecklenburg County, North Carolina (Figure 1). The former Country Side Cleaners location is now occupied by a used automobile dealership named Auto Queen Used Cars. This assessment was conducted on behalf of the North Carolina Department of Transportation (NCDOT) in accordance with Kleinfelder's June 15, 2010 proposal.

NCDOT is proposing to widen US 74 (Independence Boulevard) from NC 24-27 (Albemarle Road) to Idlewild Road and construct a bridge with on and off ramps accessing Idlewild Road. The proposed right-of-way is located along the east side of the Country Side Cleaners / Auto Sales property (Figure 2). There is concern that contaminated soils could be encountered during the construction activities at this site.

The purpose of this assessment was to determine the presence or absence of impacted soil at the subject property in proposed right-of-way construction areas related to the widening of US 74 (Independence Boulevard) from NC 24-27 (Albemarle Road) to Idlewild Road.

1.1 Site Description

The proposed right-of-way is located along east side of the property owned by Rhesa R, Tull ET. AL., and at the time of our site reconnaissance, this parcel was occupied by Auto Queen Used Cars, (Country Side Cleaners / Auto Sales). The building on the property was reportedly used as a dry cleaning business in the past. A building was located in the west side of the property and used cars were located in a small asphalt parking area on the east side of the property. Site photographs are shown in Appendix A.

1.2 Site Location

The facility is located near the northwest quadrant of the Idlewild Road and East Independence Boulevard intersection. A shopping strip mall with a pet supply store, Pizza Hut, and a Family Dollar is located north and west of the property. Independence Boulevard and a new auto dealership are located east of the property and a BP gas station is located south of the property.

1.3 NCDENR File Review

Kleinfelder reviewed incident files at the North Carolina Department of Environment and Natural Resources (NDENR) Mooresville Regional Office. No incidents were reported for the property.

2.0 SITE ASSESSMENT

2.1 Geophysical Investigation

Pyramid Environmental & Engineering, P.C (Pyramid) conducted a geophysical investigation of the proposed right-of-way on the east side of the property on June 23 and July 1, 2010. Pyramid utilized ground penetration radar (GPR) and electromagnetic (EM) induction technology to identify potential geophysical anomalies and potential USTs at the site. A more detailed description of their scope of work is explained in their Geophysical Investigation Report included in Appendix B. Prior to drilling the soil borings, buried utilities were marked by NC One Call and Taylor Wiseman & Taylor (TWT).

2.2 Soil Sampling

To determine if contaminated soil may be encountered during the proposed construction activities, soil samples were collected along the eastern side of the Country Side Cleaners / Auto Sales property. Kleinfelder met Probe Technology at the property on July 14, 2010; Probe Technology advanced three soil borings (B-1 to B-3) by direct push technology (DPT). The approximate location of the borings is shown on Figure 3.

Soil borings were advanced to a depth of ten feet below the ground surface (bgs). The borings were located along the proposed drainage features. Soil samples were collected by driving a macrocore sampler in 5-foot intervals in each boring. Each 5-foot sample sleeve was divided in half and screened for volatile organic compounds in the field using a MiniRae 2000 photo-ionization detectors (PID). In each boring, the soil interval with the highest PID reading was collected for laboratory analysis. If no organic vapors were detected, the sample collected from the bottom of the boring was submitted for analysis. The PID readings are summarized in Table 1. Copies of the boring logs are included in Appendix C.

Prior to the initial boring and after each subsequent boring, the sampling equipment was decontaminated. The soil samples collected for laboratory analysis were analyzed for total petroleum hydrocarbons (TPH) similar to diesel and gasoline (DRO/GRO) using EPA Method 8015B following 3550 and 5035 preparation and for volatile organic compounds (VOCs) using EPA Method 8260B. All soil samples were placed into laboratory provided jars, labeled, and maintained on ice until delivered to Prism, a NCDOT contract laboratory for chemical analysis.

3.0 RESULTS

3.1 Geophysical Investigation

Pyramid's results indicate that the GPR and EM investigation did not detect unknown metallic USTs within the survey area. Pyramid's report is included in Appendix B.

3.2 Soil Sample

Diesel range organics (DRO), gasoline range organics (GRO), and volatile organic hydrocarbons were not detected at concentrations above the method detection limits in the soil samples. The laboratory results are summarized in Table 2 and on Figure 3. The laboratory report and associated chain-of-custody document are included in Appendix D.

4.0 CONCLUSIONS

Based on results of the laboratory analysis and field observations, Kleinfelder has the following conclusions:

- ◆ Groundwater was not encountered in the soil borings; and
- ◆ TPH and VOCs were not detected in the soil samples at concentrations above the method detection limits.

5.0 LIMITATIONS

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

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TABLES

TABLE 1: SOIL SAMPLE PID RESULTS

SAMPLE LOCATION	DEPTH (feet bgs)	PID READINGS
B-1	0.0 - 2.5	0.7
	2.5 - 5.0	1.1
	5.0 - 7.5	0.9
	7.5 - 10.0	0.6
B-2	0.0 - 2.5	0.0
	2.5 - 5.0	1.3
	5.0 - 7.5	1.0
	7.5 - 10.0	0.9
B-3	0.0 - 2.5	1.5
	2.5 - 5.0	1.8
	5.0 - 7.5	1.1
	7.5 - 10.0	2.0

Notes:

Samples were collected on July 14, 2010.

Readings reported in parts per million

feet bgs = feet below ground surface

Bold = Selected for laboratory analysis

TABLE 2: SOIL SAMPLE ANALYTICAL SUMMARY

SAMPLE ID	COLLECTION DATE	DRO	GRO	METHOD 8260
B-1 (2.5-5ft)	7/14/2010	BRL	BRL	*BRL
B-2 (2.5-5ft)	7/14/2010	BRL	BRL	*BRL
B-3 (7.5-10ft)	7/14/2010	BRL	BRL	*BRL
State Action Level		10	10	Varies

Notes:

Sample collection depth is indicated in Sample ID, following sequential soil sample number

Results presented in milligrams per kilogram, analogous to parts per million

DRO = Diesel Range Organics

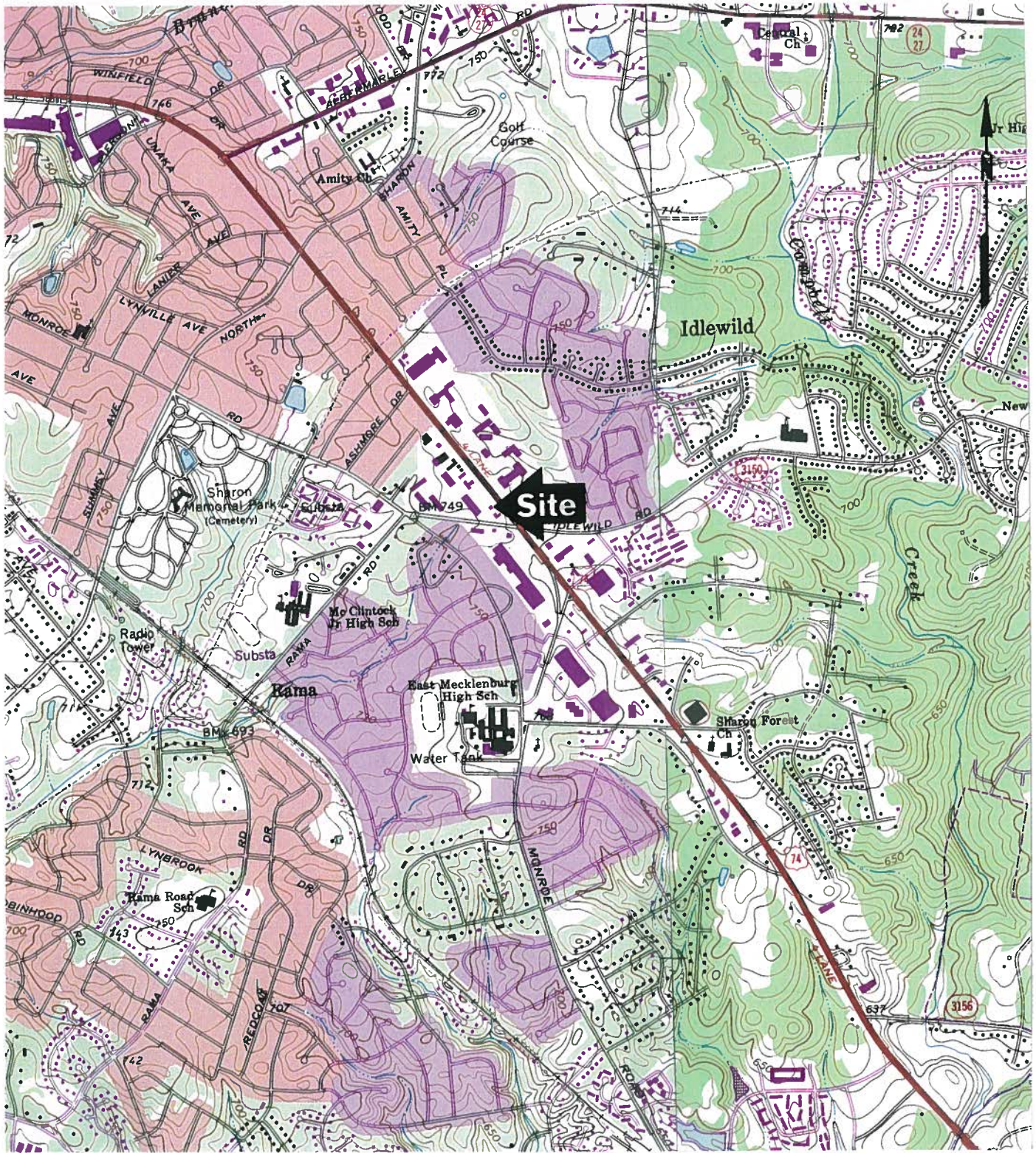
GRO = Gasoline Range Organics

BRL = Below reporting limit

Bold denotes concentration exceeds the State Action Level

*BRL = 8260 Method deliverable compounds

FIGURES



www.kleinfelder.com

**FIGURE 1
SITE LOCATION MAP**

**PARCEL # 107- COUNTRY SIDE CLEANERS / AUTO SALES
PROPERTY
5516 EAST INDEPENDENCE BOULEVARD
MECKLENBURG COUNTY, NORTH CAROLINA**

DATE: July 26, 2010

APPROVED
BY:

SCALE: 1" to 2,000'

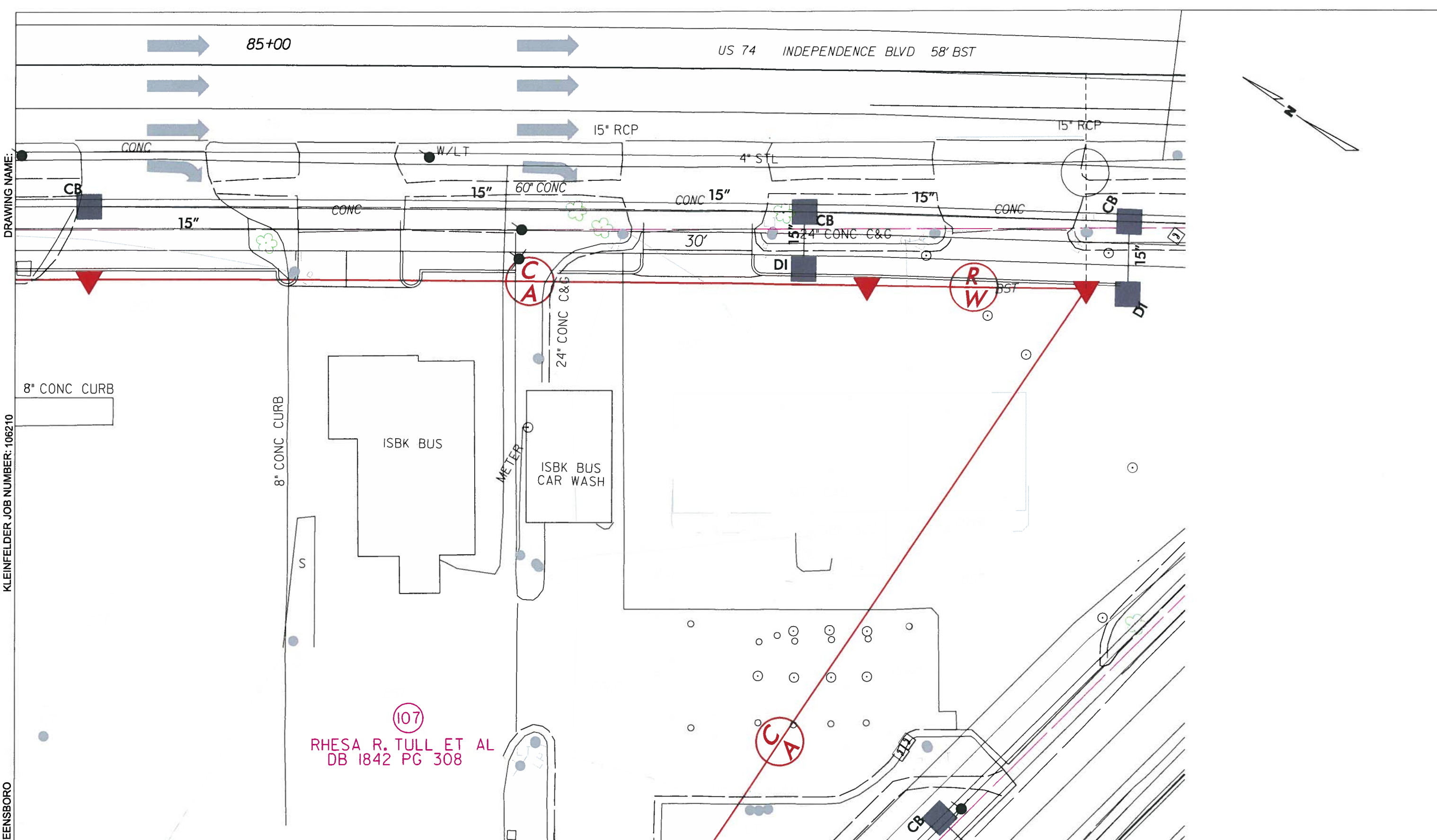
SOURCE: USGS 7.5' Topographic Map,
Charlotte East Quadrangle

PROJECT NO. 111989

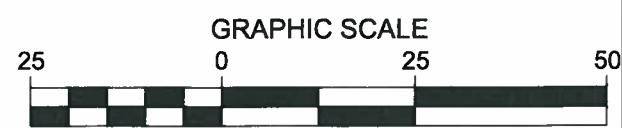
DRAWING NAME:

KLEINFELDER JOB NUMBER: 106210

OFFICE LOCATION: GREENSBORO



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PROJECT NO.	106210
DRAWN:	08/06/2010
DRAWN BY:	DJH
CHECKED BY:	JMS
SCALE:	1" = 25'

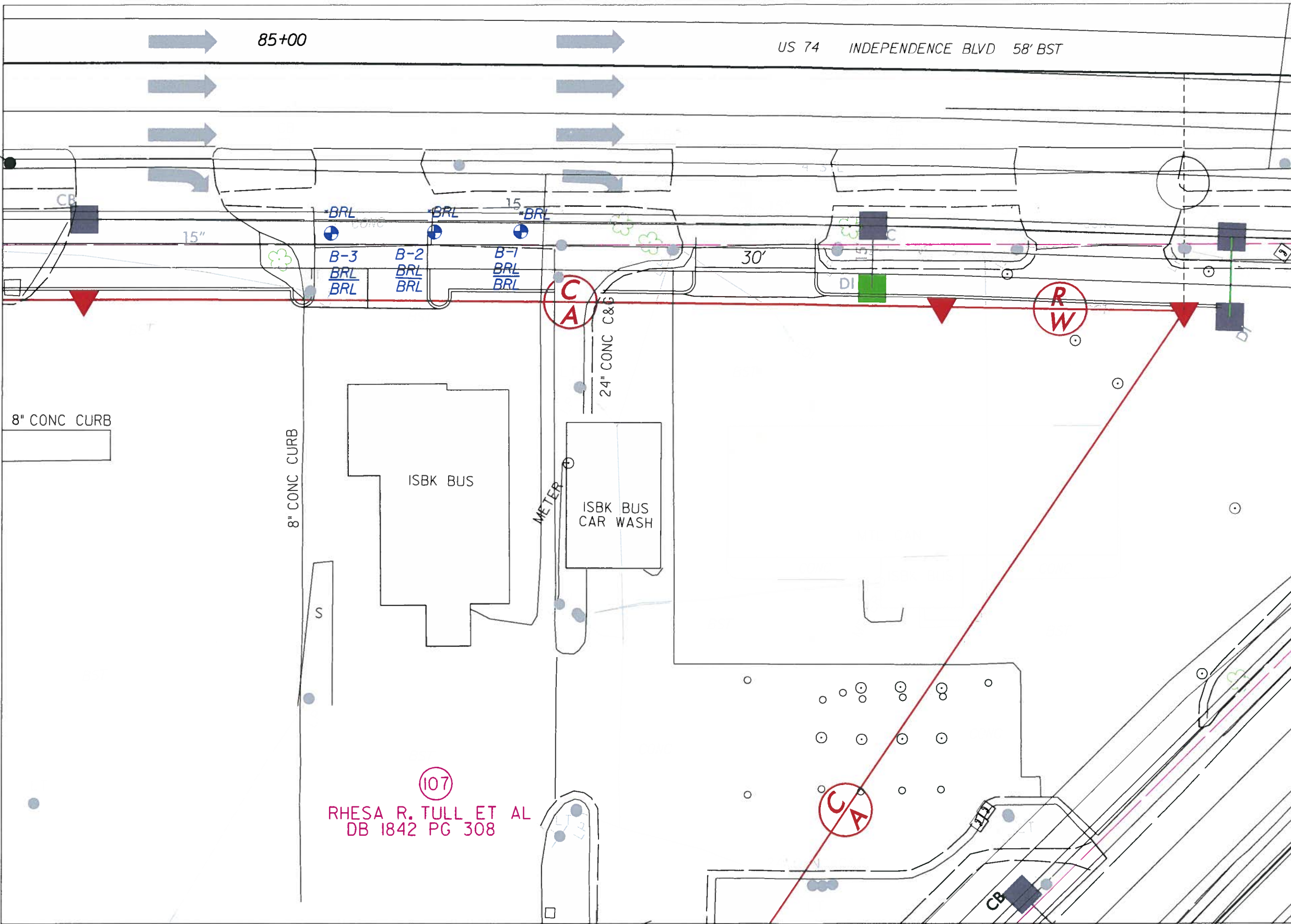
SITE MAP	
PARCEL #107	
TULL PROPERTY (COUNTRY SIDE CLEANERS/AUTO SALES)	
5516 E. INDEPENDENCE BLVD.	
TIP NO.	U-0209B
WBS ELEMENT NO.	34749.1.1
MECKLENBURG COUNTY NORTH CAROLINA	

FIGURE:
2

DRAWING NAME:

KLEINFELDER JOB NUMBER: 111989

OFFICE LOCATION: GREENSBORO



8" CONC CURB

8" CONC CURB

(107)
RHESA R. TULL ET AL
DB 1842 PG 308

EXPLANATION

- SOIL BORING**
- B-1 **GRO** IN PPM
- BRL **DRO**
- BRL **METHOD 8260**

NOTE: BRL - BELOW REPORTING LIMIT
 GRO - GASOLINE RANGE ORGANICS
 DRO - DIESEL RANGE ORGANICS

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PROJECT NO.	111989	BORING LOCATION MAP	
DRAWN:	08/06/2010	PARCEL #107	
DRAWN BY:	DJH	TULL PROPERTY (COUNTRY SIDE CLEANERS/AUTO SALES)	
CHECKED BY:	JMS	5516 E. INDEPENDENCE BLVD.	
SCALE:	1" = 25'	TIP NO.	U-0209B
		WBS ELEMENT NO.	34749.1.1
		MECKLENBURG COUNTY NORTH CAROLINA	

FIGURE:
3

APPENDIX A

**SITE PHOTOGRAPHS
KLEINFELDER PROJECT NO. 111989
PARCEL NO. 107 COUNTRY SIDE CLEANERS / AUTO SALES
PROPERTY**



Photograph 1 – View of the Country Side Cleaners / Auto Sales Property looking northwest with the entrance to the BP station in the foreground.



Photograph 2 – View of the back of the Country Side Cleaners / Auto Sales Property looking north. The BP station and car wash is in the foreground.

APPENDIX B

GEOPHYSICAL INVESTIGATION REPORT

EM61 & GPR SURVEYS

**RHESA R. TULL, ETAL PROPERTY
PARCEL 107**

Charlotte, North Carolina

August 10, 2010

**Report prepared for: John Stewart P.G.
Kleinfelder
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Charlotte, NC 28269**

Prepared by: 
Mark J. Denil, P.G.

Reviewed by: 
Douglas Canavello, P.G.

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

Kleinfelder
GEOPHYSICAL INVESTIGATION REPORT
RHESA R. TULL, ETAL PROPERTY
PARCEL 107
Charlotte, North Carolina

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Figure 3	EM61 Metal Detection – Differential Results
Figure 4	Image of GPR Survey Line Y=180

1.0 INTRODUCTION

Pyramid Environmental conducted a geophysical investigation for Kleinfelder across the Rhesa R. Tull, et al property (Parcel 107) located along the northwest corner of the Independence Boulevard and Idlewild Road intersection in Charlotte, North Carolina. Conducted on June 23 and July 1, 2010 the geophysical investigation was performed as part of the North Carolina Department of Transportation (NCDOT) preliminary site assessment project to determine if unknown, metallic underground storage tanks (UST's) were present beneath the proposed ROW area of the site.

Parcel 107 consists of an active BP gas station and car wash facility and the geophysical survey area covered the entire property which had a maximum length and width of 320 feet and 310 feet, respectively. The survey area extended across the northeastern (front) portion of the used car lot property located immediately northwest of Parcel 107. Grass covers the southwestern portion of the survey area whereas, asphalt and concrete covers much of the northeastern portion of the site.

Kleinfelder representative Mr. John Stewart, PE provided site maps during the week of June 1, 2010 that outlined the geophysical survey area of the Tull property and Kleinfelder representative Mr. John Lindemann was on site the morning of June 23, 2010 and identified the perimeter of the geophysical survey area to Pyramid Environmental personnel. Photographs of the geophysical equipment used in this investigation and a portion of the Rhesa R. Tull property are shown in **Figure 1**.

2.0 FIELD METHODOLOGY

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

The geophysical investigation consisted of electromagnetic (EM) induction-metal detection surveys and ground penetrating radar (GPR) surveys. The EM survey was performed on June 23, 2010 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. Smaller objects (1-foot or less in size) can be detected to a maximum depth of 4 to 5 feet. All of the EM61 data were digitally collected at approximately 0.8 foot intervals along northerly-southerly, or easterly-westerly, parallel survey lines spaced five feet apart. All of the data were downloaded to a computer and reviewed in the field and office using the Geonics DAT61W and Surfer for Windows Version 7.0 software programs.

GPR surveys were conducted on July 1, 2010 across selected EM61 differential anomalies, areas containing steel reinforced concrete using a GSSI SIR-2000 unit equipped with a 400 MHz antenna. Data were digitally collected in a continuous mode along X-axis and/or Y-axis survey lines, spaced 2.5 to 5.0 feet apart using a vertical scan of 512 samples, at a rate of 48 scans per second. A 70 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 5 feet, based on an estimated two-way travel time of 8 nanoseconds per foot. All of the GPR data were downloaded to a field computer and reviewed in the field and office using Radprint software.

Contour plots of the EM61 bottom coil and differential results are presented in **Figures 2 and 3**, respectively. The bottom coil results represent the most sensitive component of the EM61 instrument and detect metal objects regardless of size. The bottom coil response can be used to delineate metal conduits or utility lines, small, isolated metal objects, and areas containing insignificant metal debris. The differential results are obtained from the difference between the top and bottom coils of the EM61 instrument. The differential results focus on the larger metal objects such as drum and UST-size objects and ignore the smaller insignificant metal objects.

Preliminary geophysical results obtained from Parcel 107 were reported to Mr. Stewart on July 14, 2010.

3.0 DISCUSSION OF RESULTS

The linear EM61 bottom coil anomaly running along the edge of Independence Boulevard and intersecting grid coordinates X=190 Y=320 is probably in response to a buried utility line(s). Similarly, the linear bottom coil anomalies intersecting grid coordinates X=120 Y=295, X=150 Y=280, X=210 Y=200, X=210 Y=295, and X=260 Y=252 are probably in response to buried lines or conduits. The series of bottom coil anomalies intersecting grid coordinates X=40 Y=280 are probably in response to parked vehicles not shown on the map.

GPR data suggest that the high amplitude, EM61 bottom coil anomalies (contours shaded in red) or negative EM61 differential anomalies (contours shaded in green) centered near grid coordinates X=90 Y=270, X=100 Y=170, X=135 Y=230, and X=190 Y=240 are probably in response to steel reinforced concrete, pump islands, buildings, dumpster, and/or miscellaneous buried conduits. GPR data acquired across the concrete UST pad centered near grid coordinates X=150 Y=175, confirms the presence of the four active USTs buried approximately 1.5 feet below the concrete surface. The axes of the four USTs lie in a northeast-southwest orientation and are easily identified by the visible UST vent/fill/valve covers. The image from GPR survey line Y=180 showing the response of the four USTs, is presented in **Figure 4**. The high amplitude GPR reflections that are in response to the active USTs suggest a metallic composition.

The remaining EM61 anomalies shown in Figures 2 and 3 are probably in response to known surface objects, structures or equipment. Excluding the known and active four metallic USTs centered near grid coordinates X=150 Y=175, the geophysical investigation suggests the surveyed portion of the Rhesa R. Tull property and the front portion of the adjacent used car lot do not contain unknown, metallic USTs.

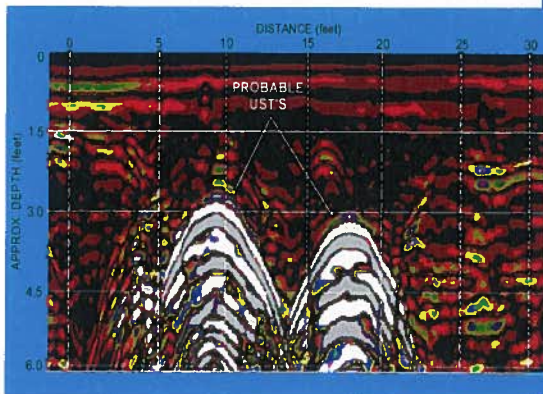
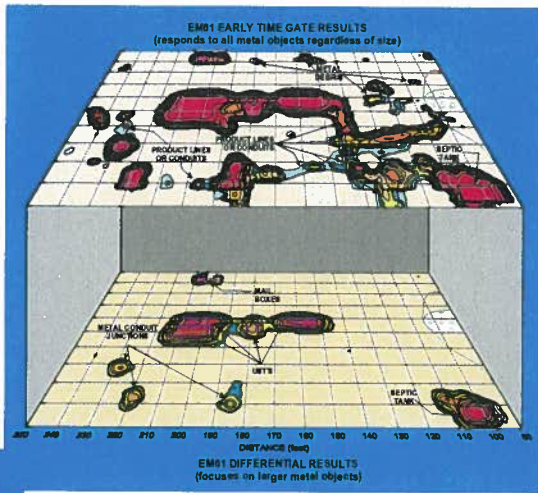
4.0 SUMMARY & CONCLUSIONS

Our evaluation of the EM61 and GPR data collected across the Rhesa R. Tull, et al property (Parcel 107) located in Charlotte, 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 site.
- The linear EM61 bottom coil anomalies intersecting grid coordinates X=190 Y=320, X=120 Y=295, X=150 Y=280, X=210 Y=200, X=210 Y=295, and X=260 Y=252 are probably in response to buried lines or conduits.
- GPR data suggest that the high amplitude, EM61 bottom coil anomalies (contours shaded in red) or negative EM61 differential anomalies (contours shaded in green) centered near grid coordinates X=90 Y=270, X=100 Y=170, X=135 Y=230, and X=190 Y=240 are probably in response to steel reinforced concrete, pump islands, buildings, dumpster, and/or miscellaneous buried conduits.
- GPR data acquired across the concrete UST pad centered near grid coordinates X=150 Y=175, confirms the presence of the four active USTs buried approximately 1.5 feet below the concrete surface. The axes of the four USTs lie in a northeast-southwest orientation and are easily identified by the visible UST vent/fill/valve covers.
- Excluding the known and active four metallic USTs centered near grid coordinates X=150 Y=175, the geophysical investigation suggests the surveyed portion of the Rhesa R. Tull property and the front portion of the adjacent used car lot do not contain unknown, metallic USTs.

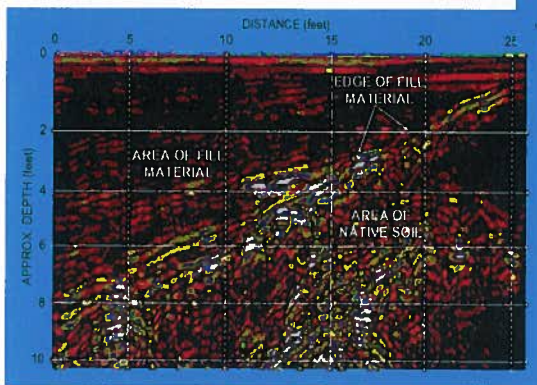
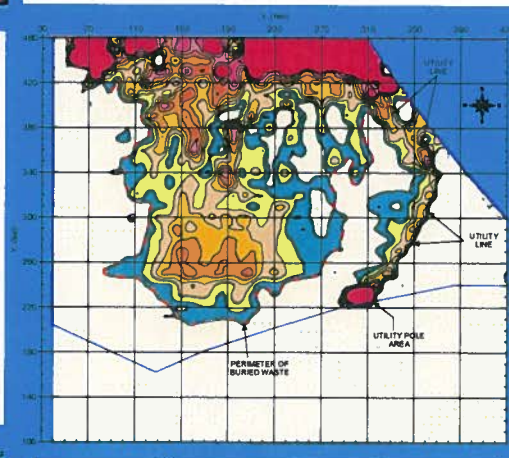
5.0 LIMITATIONS

EM61 and GPR surveys have been performed and this report prepared for Kleinfelder in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the EM61 and GPR are non-unique and may not represent actual subsurface conditions. Excluding the active (known) USTs, the EM61 and GPR results obtained for this project have not conclusively determined that the site does not contain unknown, buried metallic USTs, but that none were detected.



FIGURES
(on the following pages)

Figures shown on this page are for esthetic purposes only and are not related to the geophysical results discussed in this report.



The photograph shows the Geonics EM61 metal detector that was used to conduct the metal detection survey across Parcel 107 on June 23, 2010.



The photographs show the SIR-2000 GPR system equipped with a 400 MHz antenna that were used to conduct the ground penetrating radar investigation at Parcel 107 on July 1, 2010.

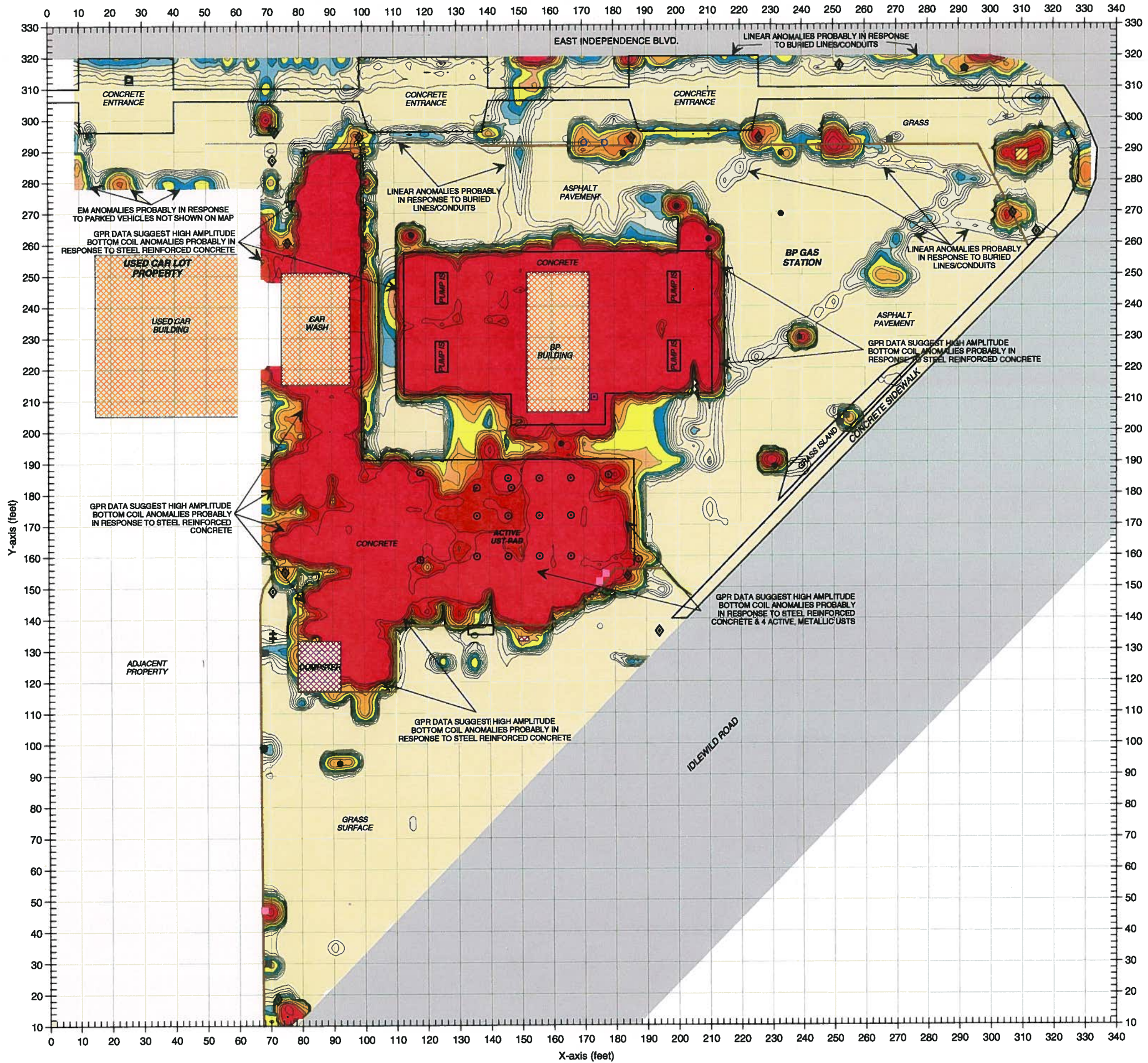


The photograph shows the southeastern portion of the Rhessa R. Tull property (Parcel 107) located at the intersection of Independence Boulevard and Idlewild Road in Charlotte, North Carolina. The photograph is viewed in a northwesterly direction.



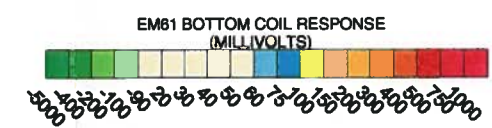
DATE	KLEINFELDER		DATE	08/06/10	BY	MJD
PROJECT	RHESA R. TULL, ET AL PROPERTY (PARCEL 107)		DATE		BY	
CITY	CHARLOTTE	STATE	NORTH CAROLINA	DATE		
REPORT	GEOPHYSICAL RESULTS		NO.	2010-153	REVISED	

GEOPHYSICAL EQUIPMENT & SITE PHOTOGRAPHS



LEGEND

[Yellow Box]	SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART
[Orange Box]	BUILDING
[Blue Circle]	AIR VAC PUMP AREA
[Yellow Line]	BUSINESS SIGN
[Grey Square]	CONCRETE ABUTMENT
[Grey Line]	CONCRETE CURBING
[Cross-hatched Box]	DUMPSTER
[Black Plus]	GUY WIRE
[Black Circle]	MONITORING WELL
[Black Circle with X]	MANHOLE COVER
[Pink Circle]	PVC VENT PIPE
[Black Square]	ROAD SIGN
[Pink Square]	TELEPHONE
[Black Square]	UTILITY LINE BOX
[Black Diamond]	UTILITY OR LAMP POLE
[Blue Square]	WATER METER BOX
[Black Circle]	UST VALVE COVER
[Cross-hatched Box]	UST VENT PIPE



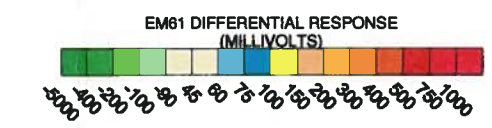
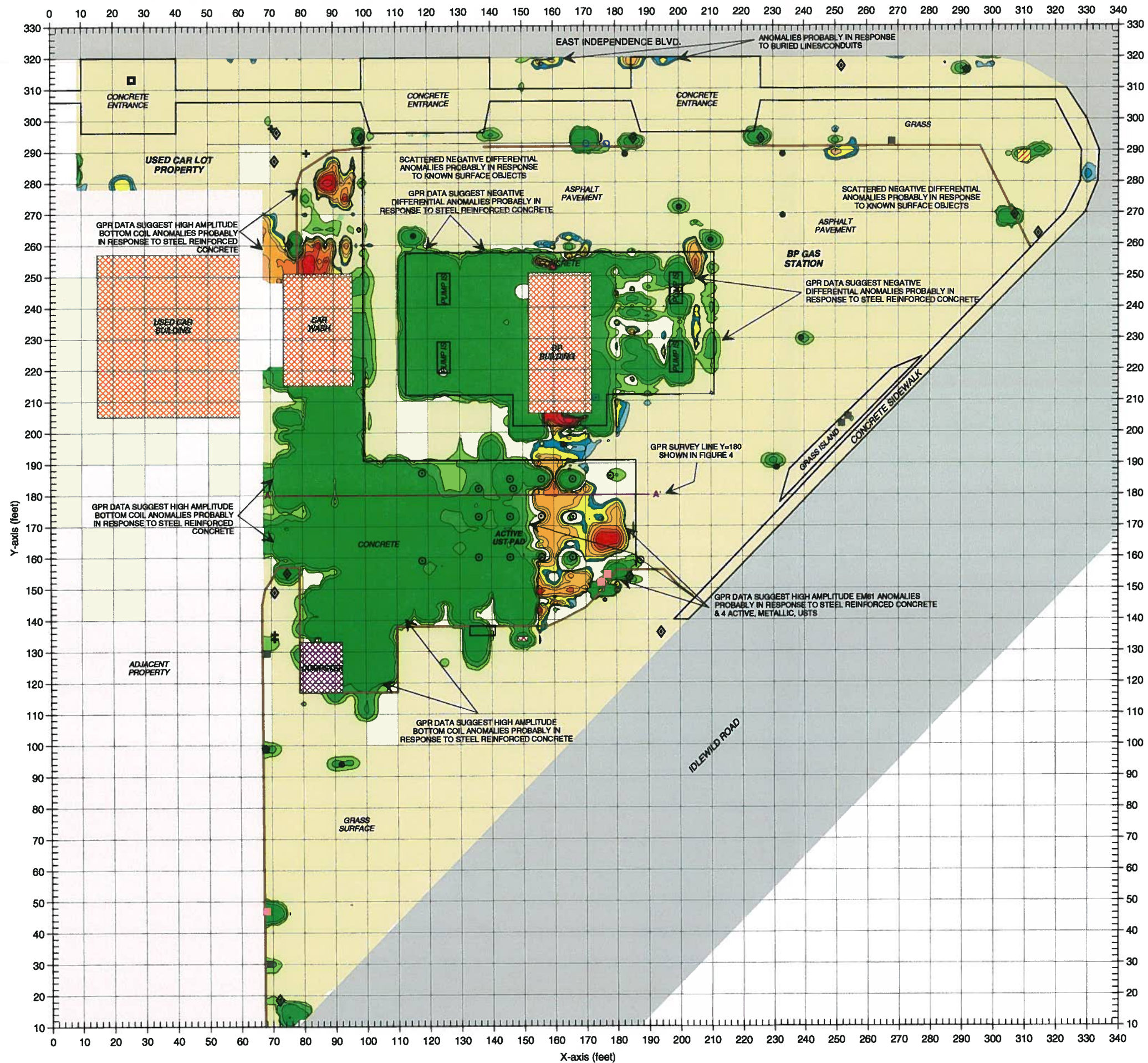
The contour plot shows the bottom coil (most sensitive) response of the EM61 instrument in millivolts (mV). The bottom coil response shows buried metallic objects regardless of size. The EM metal detection data were collected on June 23, 2010 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on July 1, 2010 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The geophysical investigation detected the active (known) USTs but did not detect additional, unknown metallic USTs within the surveyed portion of the site.

EM61 METAL DETECTION (BOTTOM COIL RESULTS) FIGURE 2

GRAPHIC SCALE IN FEET	MJD	DATE	LNO	PROJECT	TITLE
	07/12/10		2010-153	RHESA R. TULL, ET AL PROPERTY (PARCEL 107)	GEOPHYSICAL RESULTS
	KLEINFELDER		CHARLOTTE	NORTH CAROLINA	

PYRAMID
ENVIRONMENTAL & ENGINEERING, P.C.



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 USTs and ignores smaller misc. buried, metal debris. The EM metal detection data were collected on June 23, 2010 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on July 1, 2010 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The geophysical investigation detected the active (known) USTs but did not detect additional, unknown metallic USTs within the surveyed portion of the site.

LEGEND

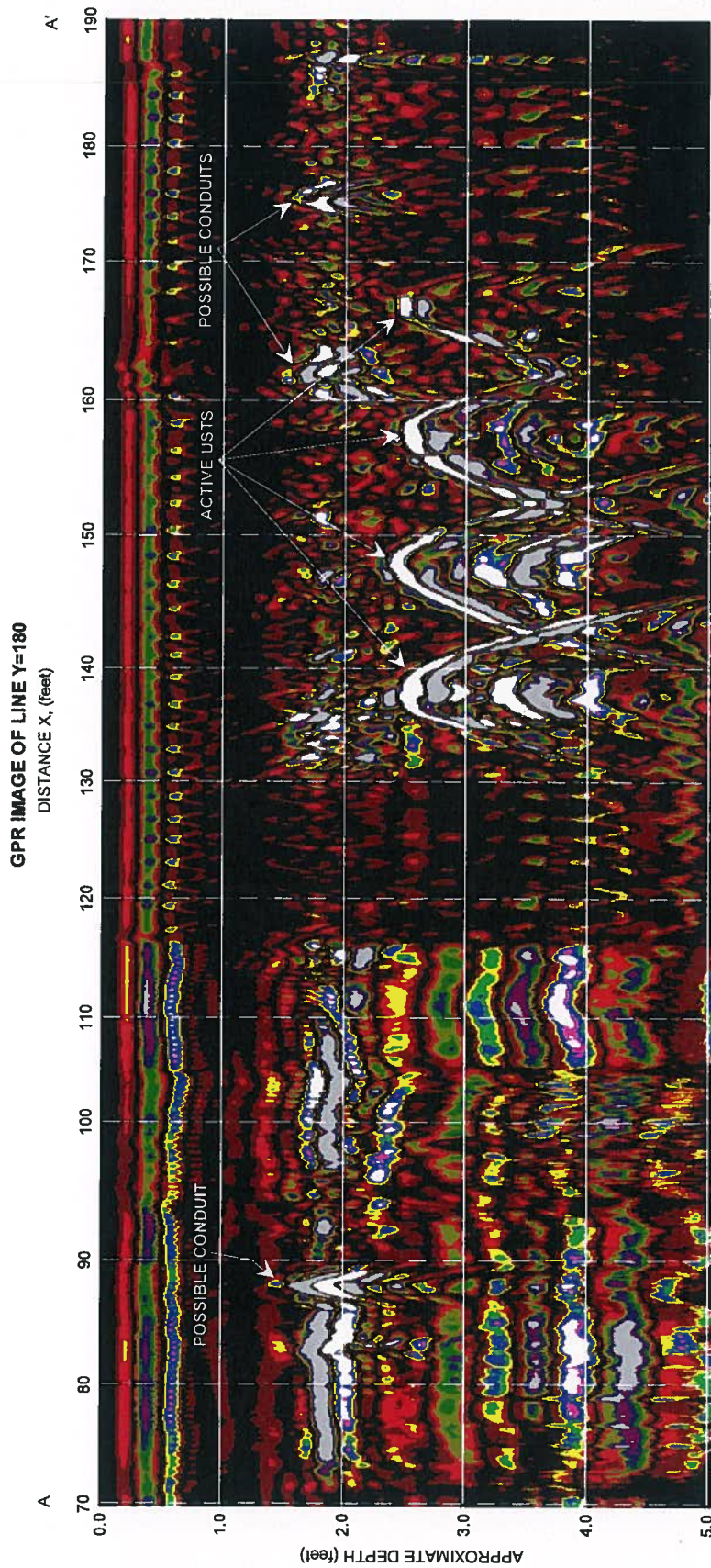
- SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS OR Y-AXIS TRENDING LINES SPACED 5 FEET APART
- ▨ BUILDING
- AIR VAC PUMP AREA
- ▨ BUSINESS SIGN
- CONCRETE ABUTMENT
- CONCRETE CURBING
- ▨ DUMPSTER
- ⊕ GUY WIRE
- MONITORING WELL
- ⊗ MANHOLE COVER
- PVC VENT PIPE
- ROAD SIGN
- TELEPHONE
- UTILITY LINE BOX
- ◆ UTILITY OR LAMP POLE
- WATER METER BOX
- UST VALVE COVER
- ▨ UST VENT PIPE

EM61 METAL DETECTION (DIFFERENTIAL RESULTS)

FIGURE 3

CLIENT	KLEINFELDER	DATE	08/06/10	DRAWN	M/JD	PROJECT	2010-153
SITE	RHESA R. TULL, ET AL PROPERTY (PARCEL 107)	LAY		CNTO		PROF	
CITY	CHARLOTTE	DWG					
STATE	NORTH CAROLINA	TITLE	GEOPHYSICAL RESULTS				

PYRAMID
ENVIRONMENTAL & ENGINEERING, P.C.



The image of GPR survey line Y=180 recorded four high amplitude, hyperbolic anomalies (reflections shaded in white) from grid line X=134 to grid line X=170 that are probably in response to the four active USTs buried approximately 1.5 feet below the concrete surface. The high amplitude responses suggest the USTs are metallic. The smaller and shallower higher amplitude GPR anomalies located near grid lines X=88, X=163 and X=176 are probably in response to buried conduits or lines. The solid purple line labeled 'AA' in Figure 3 represents the location of GPR survey line Y=180.



CLIENT	KLEINFELDER		DATE	08/04/10	BY	MJD
JOB	RHESA R. TULL, ET AL PROPERTY (PARCEL 107)		LOC		COORD	
CITY	CHARLOTTE	COUNTY	NORTH CAROLINA	STATE		
TITLE	GEOPHYSICAL RESULTS		NO	2010-153		

IMAGE OF GPR
SURVEY LINE Y=180

APPENDIX C

Client NCDOT
 Project Name U-0209B
 Number 111989
 Location Parcel 107-Auto Sales

Drill Contractor Probe Technology
 Drill Method 2 inch Direct Push
 Drilling Started 7/14/10 Ended 7/14/10
 Logged By T. Stewart

LOG OF BORING B-1
 SHEET 1 OF 1

Elevation —
 Total Depth 10.0
 Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
0						Red Brown, Gray, Yellowish Brown, Lean CLAY, Hard, Dry, No Odor	0
0.7			0.7				0.7
1.1			1.1				1.1
5	SS			CL			5
0.9			0.9				0.9
0.6			0.6				0.6
10						Boring Terminated at 10 feet in RESIDUAL	10
15							15
20							20
25							25
30							30

LOG A EVNND5 111989A.GPJ LOG A EVNND5.GDT 8/6/10



Kleinfelder
 313 Gallimore Dairy Road
 Greensboro, NC 27409
 Telephone: 336-668-0093
 Fax: 336-668-3868

Remarks Sample B-1 collected from 2.5-5 ft. submitted for laboratory analysis.

See key sheet for symbols and abbreviations used above.

Client NCDOT
 Project Name U-0209B
 Number 111989
 Location Parcel 107-Auto Sales

Drill Contractor Probe Technology
 Drill Method 2 inch Direct Push
 Drilling Started 7/14/10 Ended 7/14/10
 Logged By T. Stewart


LOG OF BORING B-2

SHEET 1 OF 1

Elevation —
 Total Depth 10.0
 Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
0.0						Red Brown, Yellowish Brown, Lean CLAY, Hard, Dry, No Odor	0.0
1.3	SS			CL			1.3
1.0							1.0
0.9							0.9
Boring Terminated at 10 feet in RESIDUAL							10

LOG A EWN05 111989A.GPJ LOG A EWN05.GDT 8/6/10



Kleinfelder
 313 Gallimore Dairy Road
 Greensboro, NC 27409
 Telephone: 336-668-0093
 Fax: 336-668-3868

Remarks Sample B-2 collected from 2.5-5 ft. submitted for laboratory analysis.

See key sheet for symbols and abbreviations used above.

LOG OF BORING B-3

SHEET 1 OF 1

Client NCDOT

Drill Contractor Probe Technology

Project Name U-0209B

Drill Method 2 inch Direct Push

Elevation --

Number 111989

Drilling Started 7/14/10 Ended 7/14/10

Total Depth 10.0

Location Parcel 107-Auto Sales

Logged By T. Stewart

Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
1.5						Red Brown, Gray, Lean CLAY, Hard, Dry, No Odor	
1.8							
5				CL			5
1.1							
10	SS		2.0				10
Boring Terminated at 10 feet in RESIDUAL							
15							15
20							20
25							25
30							30

LOG A EWN05 111989A.GPJ LOG A EWN05.GDT 8/6/10



Kleinfelder
 313 Gallimore Dairy Road
 Greensboro, NC 27409
 Telephone: 336-668-0093
 Fax: 336-668-3868

Remarks Sample B-3 collected from 7.5-10 ft. submitted for laboratory analysis.

See key sheet for symbols and abbreviations used above.

APPENDIX D



Full-Service Analytical &
Environmental Solutions

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

Case Narrative

07/28/2010

Kleinfelder SE, Inc. (NCDOT Project)
John Stewart
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Project: NCDOT Parcel #107Auto
Project No.: WBS# 34749.1.1
Lab Submittal Date: 07/14/2010
Prism Work Order: 0070410

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

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

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

Respectfully,

PRISM LABORATORIES, INC.

VP Laboratory Services

Reviewed By

Data Qualifiers Key Reference:

- A Surrogate recovered outside established QC range.
- LH High LCS recovery. Analyte not detected in the sample(s). No further action taken.
- BRL Below Reporting Limit
- MDL Method Detection Limit
- RPD Relative Percent Difference
- * Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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



Sample Receipt Summary

07/28/2010

Prism Work Order: 0070410

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
B-1 (2.5-5)	0070410-17	Solid	07/14/10	07/14/10
B-2 (2.5-5)	0070410-18	Solid	07/14/10	07/14/10
B-3 (7.5-10)	0070410-19	Solid	07/14/10	07/14/10

Samples received in good condition at 19.2 degrees C unless otherwise noted.



Kleinfelder SE, Inc. (NCDOT Project)
Attn: John Stewart
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Project: NCDOT Parcel #107Auto
Project No.: WBS# 34749.1.1
Sample Matrix: Solid

Client Sample ID: B-1 (2.5-5)
Prism Sample ID: 0070410-17
Prism Work Order: 0070410
Time Collected: 07/14/10 13:19
Time Submitted: 07/14/10 16:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	8.8	1.4	1	*8015C	7/24/10 7:19	GRR	P0G0489
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			82 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	6.4	0.84	50	8015C	7/23/10 3:25	HPE	P0G0478
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			94 %		55-129	

General Chemistry Parameters

% Solids	79.6	% by Weight	0.100	0.100	1	*SM2540 G	7/20/10 13:00	JAB	P0G0388
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Volatile Organic Compounds by GC/MS

1,1,1-Trichloroethane	BRL	mg/kg dry	0.0070	0.0016	1	8260B	7/19/10 23:59	KLA	P0G0350
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0070	0.0019	1	8260B	7/19/10 23:59	KLA	P0G0350
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0070	0.0020	1	8260B	7/19/10 23:59	KLA	P0G0350
1,1-Dichloroethane	BRL	mg/kg dry	0.0070	0.0018	1	8260B	7/19/10 23:59	KLA	P0G0350
1,1-Dichloroethylene	BRL	mg/kg dry	0.0070	0.0017	1	8260B	7/19/10 23:59	KLA	P0G0350
1,1-Dichloropropylene	BRL	mg/kg dry	0.0070	0.0015	1	8260B	7/19/10 23:59	KLA	P0G0350
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0070	0.0023	1	8260B	7/19/10 23:59	KLA	P0G0350
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0070	0.0029	1	8260B	7/19/10 23:59	KLA	P0G0350
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0070	0.0019	1	8260B	7/19/10 23:59	KLA	P0G0350
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0070	0.0017	1	8260B	7/19/10 23:59	KLA	P0G0350
1,2-Dibromoethane	BRL	mg/kg dry	0.0070	0.0019	1	8260B	7/19/10 23:59	KLA	P0G0350
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0070	0.0019	1	8260B	7/19/10 23:59	KLA	P0G0350
1,2-Dichloroethane	BRL	mg/kg dry	0.0070	0.0018	1	8260B	7/19/10 23:59	KLA	P0G0350
1,2-Dichloropropane	BRL	mg/kg dry	0.0070	0.0021	1	8260B	7/19/10 23:59	KLA	P0G0350
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0070	0.0019	1	8260B	7/19/10 23:59	KLA	P0G0350
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0070	0.0017	1	8260B	7/19/10 23:59	KLA	P0G0350
1,3-Dichloropropane	BRL	mg/kg dry	0.0070	0.0014	1	8260B	7/19/10 23:59	KLA	P0G0350
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0070	0.0017	1	8260B	7/19/10 23:59	KLA	P0G0350
2,2-Dichloropropane	BRL	mg/kg dry	0.0070	0.0017	1	8260B	7/19/10 23:59	KLA	P0G0350
2-Chlorotoluene	BRL	mg/kg dry	0.0070	0.0018	1	8260B	7/19/10 23:59	KLA	P0G0350
4-Chlorotoluene	BRL	mg/kg dry	0.0070	0.0017	1	8260B	7/19/10 23:59	KLA	P0G0350
4-Isopropyltoluene	BRL	mg/kg dry	0.0070	0.0020	1	8260B	7/19/10 23:59	KLA	P0G0350
Acetone	BRL	mg/kg dry	0.070	0.0030	1	8260B	7/19/10 23:59	KLA	P0G0350
Benzene	BRL	mg/kg dry	0.0042	0.0019	1	8260B	7/19/10 23:59	KLA	P0G0350
Bromobenzene	BRL	mg/kg dry	0.0070	0.0017	1	8260B	7/19/10 23:59	KLA	P0G0350
Bromochloromethane	BRL	mg/kg dry	0.0070	0.0019	1	8260B	7/19/10 23:59	KLA	P0G0350
Bromodichloromethane	BRL	mg/kg dry	0.0070	0.0016	1	8260B	7/19/10 23:59	KLA	P0G0350
Bromoform	BRL	mg/kg dry	0.0070	0.0015	1	8260B	7/19/10 23:59	KLA	P0G0350
Bromomethane	BRL	mg/kg dry	0.014	0.0018	1	8260B	7/19/10 23:59	KLA	P0G0350
Carbon Tetrachloride	BRL	mg/kg dry	0.0070	0.0020	1	8260B	7/19/10 23:59	KLA	P0G0350

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Kleinfelder SE, Inc. (NCDOT Project)
 Attn: John Stewart
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project: NCDOT Parcel #107Auto
 Project No.: WBS# 34749.1.1
 Sample Matrix: Solid

Client Sample ID: B-1 (2.5-5)
 Prism Sample ID: 0070410-17
 Prism Work Order: 0070410
 Time Collected: 07/14/10 13:19
 Time Submitted: 07/14/10 16:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chlorobenzene	BRL	mg/kg dry	0.0070	0.0016	1	8260B	7/19/10 23:59	KLA	P0G0350
Chloroethane	BRL	mg/kg dry	0.014	0.0036	1	8260B	7/19/10 23:59	KLA	P0G0350
Chloroform	BRL	mg/kg dry	0.0070	0.0018	1	8260B	7/19/10 23:59	KLA	P0G0350
Chloromethane	BRL	mg/kg dry	0.0070	0.0017	1	8260B	7/19/10 23:59	KLA	P0G0350
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0070	0.0016	1	8260B	7/19/10 23:59	KLA	P0G0350
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0070	0.0017	1	8260B	7/19/10 23:59	KLA	P0G0350
Dibromochloromethane	BRL	mg/kg dry	0.0070	0.0018	1	8260B	7/19/10 23:59	KLA	P0G0350
Dichlorodifluoromethane	BRL	mg/kg dry	0.0070	0.0014	1	8260B	7/19/10 23:59	KLA	P0G0350
Ethylbenzene	BRL	mg/kg dry	0.0070	0.0015	1	8260B	7/19/10 23:59	KLA	P0G0350
Isopropyl Ether	BRL	mg/kg dry	0.0070	0.0017	1	8260B	7/19/10 23:59	KLA	P0G0350
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0070	0.0016	1	8260B	7/19/10 23:59	KLA	P0G0350
m,p-Xylenes	BRL	mg/kg dry	0.014	0.0037	1	8260B	7/19/10 23:59	KLA	P0G0350
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.070	0.0021	1	8260B	7/19/10 23:59	KLA	P0G0350
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.14	0.0018	1	8260B	7/19/10 23:59	KLA	P0G0350
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.070	0.0015	1	8260B	7/19/10 23:59	KLA	P0G0350
Methylene Chloride	BRL	mg/kg dry	0.0070	0.0018	1	8260B	7/19/10 23:59	KLA	P0G0350
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.014	0.0015	1	8260B	7/19/10 23:59	KLA	P0G0350
Naphthalene	BRL	mg/kg dry	0.014	0.0038	1	8260B	7/19/10 23:59	KLA	P0G0350
n-Butylbenzene	BRL	mg/kg dry	0.0070	0.0026	1	8260B	7/19/10 23:59	KLA	P0G0350
n-Propylbenzene	BRL	mg/kg dry	0.0070	0.0020	1	8260B	7/19/10 23:59	KLA	P0G0350
o-Xylene	BRL	mg/kg dry	0.0070	0.0016	1	8260B	7/19/10 23:59	KLA	P0G0350
sec-Butylbenzene	BRL	mg/kg dry	0.0070	0.0018	1	8260B	7/19/10 23:59	KLA	P0G0350
Styrene	BRL	mg/kg dry	0.0070	0.0014	1	8260B	7/19/10 23:59	KLA	P0G0350
tert-Butylbenzene	BRL	mg/kg dry	0.0070	0.0019	1	8260B	7/19/10 23:59	KLA	P0G0350
Tetrachloroethylene	BRL	mg/kg dry	0.0070	0.0018	1	8260B	7/19/10 23:59	KLA	P0G0350
Toluene	BRL	mg/kg dry	0.0070	0.0017	1	8260B	7/19/10 23:59	KLA	P0G0350
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0070	0.0014	1	8260B	7/19/10 23:59	KLA	P0G0350
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0070	0.0014	1	8260B	7/19/10 23:59	KLA	P0G0350
Trichloroethylene	BRL	mg/kg dry	0.0070	0.0020	1	8260B	7/19/10 23:59	KLA	P0G0350
Trichlorofluoromethane	BRL	mg/kg dry	0.0070	0.0020	1	8260B	7/19/10 23:59	KLA	P0G0350
Vinyl acetate	BRL	mg/kg dry	0.035	0.0048	1	8260B	7/19/10 23:59	KLA	P0G0350
Vinyl chloride	BRL	mg/kg dry	0.0070	0.0018	1	8260B	7/19/10 23:59	KLA	P0G0350
Xylenes, total	BRL	mg/kg dry	0.021	0.0053	1	8260B	7/19/10 23:59	KLA	P0G0350

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	104 %	70-130
Dibromofluoromethane	99 %	84-123
Toluene-d8	100 %	76-129

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Kleinfelder SE, Inc. (NCDOT Project)
Attn: John Stewart
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Project: NCDOT Parcel #107Auto
Project No.: WBS# 34749.1.1
Sample Matrix: Solid

Client Sample ID: B-2 (2.5-5)
Prism Sample ID: 0070410-18
Prism Work Order: 0070410
Time Collected: 07/14/10 13:29
Time Submitted: 07/14/10 16:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	8.0	1.3	1	*8015C	7/24/10 10:16	GRR	P0G0489
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			86 %		49-124	

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	4.2	0.54	50	8015C	7/23/10 3:56	HPE	P0G0478
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			95 %		55-129	

General Chemistry Parameters

% Solids	87.2	% by Weight	0.100	0.100	1	*SM2540 G	7/20/10 13:00	JAB	P0G0388
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Volatile Organic Compounds by GC/MS

1,1,1-Trichloroethane	BRL	mg/kg dry	0.0051	0.0012	1	8260B	7/20/10 0:28	KLA	P0G0350
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0051	0.0014	1	8260B	7/20/10 0:28	KLA	P0G0350
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0051	0.0015	1	8260B	7/20/10 0:28	KLA	P0G0350
1,1-Dichloroethane	BRL	mg/kg dry	0.0051	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
1,1-Dichloroethylene	BRL	mg/kg dry	0.0051	0.0012	1	8260B	7/20/10 0:28	KLA	P0G0350
1,1-Dichloropropylene	BRL	mg/kg dry	0.0051	0.0011	1	8260B	7/20/10 0:28	KLA	P0G0350
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0051	0.0017	1	8260B	7/20/10 0:28	KLA	P0G0350
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0051	0.0021	1	8260B	7/20/10 0:28	KLA	P0G0350
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0051	0.0014	1	8260B	7/20/10 0:28	KLA	P0G0350
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0051	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
1,2-Dibromoethane	BRL	mg/kg dry	0.0051	0.0014	1	8260B	7/20/10 0:28	KLA	P0G0350
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.0014	1	8260B	7/20/10 0:28	KLA	P0G0350
1,2-Dichloroethane	BRL	mg/kg dry	0.0051	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
1,2-Dichloropropane	BRL	mg/kg dry	0.0051	0.0015	1	8260B	7/20/10 0:28	KLA	P0G0350
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0051	0.0014	1	8260B	7/20/10 0:28	KLA	P0G0350
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.0012	1	8260B	7/20/10 0:28	KLA	P0G0350
1,3-Dichloropropane	BRL	mg/kg dry	0.0051	0.0011	1	8260B	7/20/10 0:28	KLA	P0G0350
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
2,2-Dichloropropane	BRL	mg/kg dry	0.0051	0.0012	1	8260B	7/20/10 0:28	KLA	P0G0350
2-Chlorotoluene	BRL	mg/kg dry	0.0051	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
4-Chlorotoluene	BRL	mg/kg dry	0.0051	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
4-Isopropyltoluene	BRL	mg/kg dry	0.0051	0.0015	1	8260B	7/20/10 0:28	KLA	P0G0350
Acetone	BRL	mg/kg dry	0.051	0.0022	1	8260B	7/20/10 0:28	KLA	P0G0350
Benzene	BRL	mg/kg dry	0.0031	0.0014	1	8260B	7/20/10 0:28	KLA	P0G0350
Bromobenzene	BRL	mg/kg dry	0.0051	0.0012	1	8260B	7/20/10 0:28	KLA	P0G0350
Bromochloromethane	BRL	mg/kg dry	0.0051	0.0014	1	8260B	7/20/10 0:28	KLA	P0G0350
Bromodichloromethane	BRL	mg/kg dry	0.0051	0.0012	1	8260B	7/20/10 0:28	KLA	P0G0350
Bromoform	BRL	mg/kg dry	0.0051	0.0011	1	8260B	7/20/10 0:28	KLA	P0G0350
Bromomethane	BRL	mg/kg dry	0.010	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
Carbon Tetrachloride	BRL	mg/kg dry	0.0051	0.0015	1	8260B	7/20/10 0:28	KLA	P0G0350

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Full-Service Analytical &
Environmental Solutions

Laboratory Report

07/28/2010

Kleinfelder SE, Inc. (NCDOT Project)
Attn: John Stewart
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Project: NCDOT Parcel #107Auto
Project No.: WBS# 34749.1.1
Sample Matrix: Solid

Client Sample ID: B-2 (2.5-5)
Prism Sample ID: 0070410-18
Prism Work Order: 0070410
Time Collected: 07/14/10 13:29
Time Submitted: 07/14/10 16:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chlorobenzene	BRL	mg/kg dry	0.0051	0.0012	1	8260B	7/20/10 0:28	KLA	P0G0350
Chloroethane	BRL	mg/kg dry	0.010	0.0027	1	8260B	7/20/10 0:28	KLA	P0G0350
Chloroform	BRL	mg/kg dry	0.0051	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
Chloromethane	BRL	mg/kg dry	0.0051	0.0012	1	8260B	7/20/10 0:28	KLA	P0G0350
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0051	0.0012	1	8260B	7/20/10 0:28	KLA	P0G0350
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0051	0.0012	1	8260B	7/20/10 0:28	KLA	P0G0350
Dibromochloromethane	BRL	mg/kg dry	0.0051	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
Dichlorodifluoromethane	BRL	mg/kg dry	0.0051	0.0011	1	8260B	7/20/10 0:28	KLA	P0G0350
Ethylbenzene	BRL	mg/kg dry	0.0051	0.0011	1	8260B	7/20/10 0:28	KLA	P0G0350
Isopropyl Ether	BRL	mg/kg dry	0.0051	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0051	0.0011	1	8260B	7/20/10 0:28	KLA	P0G0350
m,p-Xylenes	BRL	mg/kg dry	0.010	0.0027	1	8260B	7/20/10 0:28	KLA	P0G0350
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.051	0.0015	1	8260B	7/20/10 0:28	KLA	P0G0350
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.051	0.0011	1	8260B	7/20/10 0:28	KLA	P0G0350
Methylene Chloride	BRL	mg/kg dry	0.0051	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.0011	1	8260B	7/20/10 0:28	KLA	P0G0350
Naphthalene	BRL	mg/kg dry	0.010	0.0028	1	8260B	7/20/10 0:28	KLA	P0G0350
n-Butylbenzene	BRL	mg/kg dry	0.0051	0.0019	1	8260B	7/20/10 0:28	KLA	P0G0350
n-Propylbenzene	BRL	mg/kg dry	0.0051	0.0015	1	8260B	7/20/10 0:28	KLA	P0G0350
o-Xylene	BRL	mg/kg dry	0.0051	0.0011	1	8260B	7/20/10 0:28	KLA	P0G0350
sec-Butylbenzene	BRL	mg/kg dry	0.0051	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
Styrene	BRL	mg/kg dry	0.0051	0.0010	1	8260B	7/20/10 0:28	KLA	P0G0350
tert-Butylbenzene	BRL	mg/kg dry	0.0051	0.0014	1	8260B	7/20/10 0:28	KLA	P0G0350
Tetrachloroethylene	BRL	mg/kg dry	0.0051	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
Toluene	BRL	mg/kg dry	0.0051	0.0012	1	8260B	7/20/10 0:28	KLA	P0G0350
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0051	0.0010	1	8260B	7/20/10 0:28	KLA	P0G0350
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0051	0.0010	1	8260B	7/20/10 0:28	KLA	P0G0350
Trichloroethylene	BRL	mg/kg dry	0.0051	0.0014	1	8260B	7/20/10 0:28	KLA	P0G0350
Trichlorofluoromethane	BRL	mg/kg dry	0.0051	0.0015	1	8260B	7/20/10 0:28	KLA	P0G0350
Vinyl acetate	BRL	mg/kg dry	0.026	0.0035	1	8260B	7/20/10 0:28	KLA	P0G0350
Vinyl chloride	BRL	mg/kg dry	0.0051	0.0013	1	8260B	7/20/10 0:28	KLA	P0G0350
Xylenes, total	BRL	mg/kg dry	0.015	0.0039	1	8260B	7/20/10 0:28	KLA	P0G0350

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	104 %	70-130
Dibromofluoromethane	104 %	84-123
Toluene-d8	97 %	76-129

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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

Qbhf !7!pg28



Kleinfelder SE, Inc. (NCDOT Project)
Attn: John Stewart
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Project: NCDOT Parcel #107Auto
Project No.: WBS# 34749.1.1
Sample Matrix: Solid

Client Sample ID: B-3 (7.5-10)
Prism Sample ID: 0070410-19
Prism Work Order: 0070410
Time Collected: 07/14/10 14:10
Time Submitted: 07/14/10 16:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Diesel Range Organics by GC/FID

Diesel Range Organics	BRL	mg/kg dry	9.3	1.5	1	*8015C	7/24/10 7:54	GRR	P0G0489
			Surrogate				Recovery		Control Limits
			o-Terphenyl				81 %		49-124

Gasoline Range Organics by GC/FID

Gasoline Range Organics	BRL	mg/kg dry	5.5	0.71	50	8015C	7/23/10 4:27	HPE	P0G0478
			Surrogate				Recovery		Control Limits
			a,a,a-Trifluorotoluene				110 %		55-129

General Chemistry Parameters

% Solids	74.7	% by Weight	0.100	0.100	1	*SM2640 G	7/20/10 13:00	JAB	P0G0388
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Volatile Organic Compounds by GC/MS

1,1,1-Trichloroethane	BRL	mg/kg dry	0.0077	0.0018	1	8260B	7/20/10 0:58	KLA	P0G0350
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0077	0.0021	1	8260B	7/20/10 0:58	KLA	P0G0350
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0077	0.0022	1	8260B	7/20/10 0:58	KLA	P0G0350
1,1-Dichloroethane	BRL	mg/kg dry	0.0077	0.0020	1	8260B	7/20/10 0:58	KLA	P0G0350
1,1-Dichloroethylene	BRL	mg/kg dry	0.0077	0.0018	1	8260B	7/20/10 0:58	KLA	P0G0350
1,1-Dichloropropylene	BRL	mg/kg dry	0.0077	0.0016	1	8260B	7/20/10 0:58	KLA	P0G0350
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0077	0.0025	1	8260B	7/20/10 0:58	KLA	P0G0350
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0077	0.0032	1	8260B	7/20/10 0:58	KLA	P0G0350
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0077	0.0021	1	8260B	7/20/10 0:58	KLA	P0G0350
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0077	0.0019	1	8260B	7/20/10 0:58	KLA	P0G0350
1,2-Dibromoethane	BRL	mg/kg dry	0.0077	0.0021	1	8260B	7/20/10 0:58	KLA	P0G0350
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0077	0.0021	1	8260B	7/20/10 0:58	KLA	P0G0350
1,2-Dichloroethane	BRL	mg/kg dry	0.0077	0.0020	1	8260B	7/20/10 0:58	KLA	P0G0350
1,2-Dichloropropane	BRL	mg/kg dry	0.0077	0.0023	1	8260B	7/20/10 0:58	KLA	P0G0350
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0077	0.0020	1	8260B	7/20/10 0:58	KLA	P0G0350
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0077	0.0018	1	8260B	7/20/10 0:58	KLA	P0G0350
1,3-Dichloropropane	BRL	mg/kg dry	0.0077	0.0016	1	8260B	7/20/10 0:58	KLA	P0G0350
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0077	0.0019	1	8260B	7/20/10 0:58	KLA	P0G0350
2,2-Dichloropropane	BRL	mg/kg dry	0.0077	0.0018	1	8260B	7/20/10 0:58	KLA	P0G0350
2-Chlorotoluene	BRL	mg/kg dry	0.0077	0.0020	1	8260B	7/20/10 0:58	KLA	P0G0350
4-Chlorotoluene	BRL	mg/kg dry	0.0077	0.0019	1	8260B	7/20/10 0:58	KLA	P0G0350
4-Isopropyltoluene	BRL	mg/kg dry	0.0077	0.0022	1	8260B	7/20/10 0:58	KLA	P0G0350
Acetone	BRL	mg/kg dry	0.077	0.0033	1	8260B	7/20/10 0:58	KLA	P0G0350
Benzene	BRL	mg/kg dry	0.0046	0.0021	1	8260B	7/20/10 0:58	KLA	P0G0350
Bromobenzene	BRL	mg/kg dry	0.0077	0.0019	1	8260B	7/20/10 0:58	KLA	P0G0350
Bromochloromethane	BRL	mg/kg dry	0.0077	0.0021	1	8260B	7/20/10 0:58	KLA	P0G0350
Bromodichloromethane	BRL	mg/kg dry	0.0077	0.0018	1	8260B	7/20/10 0:58	KLA	P0G0350
Bromoform	BRL	mg/kg dry	0.0077	0.0017	1	8260B	7/20/10 0:58	KLA	P0G0350
Bromomethane	BRL	mg/kg dry	0.015	0.0019	1	8260B	7/20/10 0:58	KLA	P0G0350
Carbon Tetrachloride	BRL	mg/kg dry	0.0077	0.0023	1	8260B	7/20/10 0:58	KLA	P0G0350

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Full-Service Analytical & Environmental Solutions

Laboratory Report

07/28/2010

Kleinfelder SE, Inc. (NCDOT Project)
Attn: John Stewart
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Project: NCDOT Parcel #107Auto
Project No.: WBS# 34749.1.1
Sample Matrix: Solid

Client Sample ID: B-3 (7.5-10)
Prism Sample ID: 0070410-19
Prism Work Order: 0070410
Time Collected: 07/14/10 14:10
Time Submitted: 07/14/10 16:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chlorobenzene	BRL	mg/kg dry	0.0077	0.0017	1	8260B	7/20/10 0:58	KLA	P0G0350
Chloroethane	BRL	mg/kg dry	0.015	0.0040	1	8260B	7/20/10 0:58	KLA	P0G0350
Chloroform	BRL	mg/kg dry	0.0077	0.0019	1	8260B	7/20/10 0:58	KLA	P0G0350
Chloromethane	BRL	mg/kg dry	0.0077	0.0018	1	8260B	7/20/10 0:58	KLA	P0G0350
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0077	0.0018	1	8260B	7/20/10 0:58	KLA	P0G0350
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0077	0.0018	1	8260B	7/20/10 0:58	KLA	P0G0350
Dibromochloromethane	BRL	mg/kg dry	0.0077	0.0019	1	8260B	7/20/10 0:58	KLA	P0G0350
Dichlorodifluoromethane	BRL	mg/kg dry	0.0077	0.0016	1	8260B	7/20/10 0:58	KLA	P0G0350
Ethylbenzene	BRL	mg/kg dry	0.0077	0.0016	1	8260B	7/20/10 0:58	KLA	P0G0350
Isopropyl Ether	BRL	mg/kg dry	0.0077	0.0019	1	8260B	7/20/10 0:58	KLA	P0G0350
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0077	0.0017	1	8260B	7/20/10 0:58	KLA	P0G0350
m,p-Xylenes	BRL	mg/kg dry	0.015	0.0041	1	8260B	7/20/10 0:58	KLA	P0G0350
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.077	0.0023	1	8260B	7/20/10 0:58	KLA	P0G0350
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.15	0.0020	1	8260B	7/20/10 0:58	KLA	P0G0350
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.077	0.0017	1	8260B	7/20/10 0:58	KLA	P0G0350
Methylene Chloride	BRL	mg/kg dry	0.0077	0.0020	1	8260B	7/20/10 0:58	KLA	P0G0350
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.015	0.0016	1	8260B	7/20/10 0:58	KLA	P0G0350
Naphthalene	BRL	mg/kg dry	0.015	0.0042	1	8260B	7/20/10 0:58	KLA	P0G0350
n-Butylbenzene	BRL	mg/kg dry	0.0077	0.0028	1	8260B	7/20/10 0:58	KLA	P0G0350
n-Propylbenzene	BRL	mg/kg dry	0.0077	0.0022	1	8260B	7/20/10 0:58	KLA	P0G0350
o-Xylene	BRL	mg/kg dry	0.0077	0.0017	1	8260B	7/20/10 0:58	KLA	P0G0350
sec-Butylbenzene	BRL	mg/kg dry	0.0077	0.0020	1	8260B	7/20/10 0:58	KLA	P0G0350
Styrene	BRL	mg/kg dry	0.0077	0.0015	1	8260B	7/20/10 0:58	KLA	P0G0350
tert-Butylbenzene	BRL	mg/kg dry	0.0077	0.0021	1	8260B	7/20/10 0:58	KLA	P0G0350
Tetrachloroethylene	BRL	mg/kg dry	0.0077	0.0020	1	8260B	7/20/10 0:58	KLA	P0G0350
Toluene	BRL	mg/kg dry	0.0077	0.0019	1	8260B	7/20/10 0:58	KLA	P0G0350
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0077	0.0015	1	8260B	7/20/10 0:58	KLA	P0G0350
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0077	0.0015	1	8260B	7/20/10 0:58	KLA	P0G0350
Trichloroethylene	BRL	mg/kg dry	0.0077	0.0022	1	8260B	7/20/10 0:58	KLA	P0G0350
Trichlorofluoromethane	BRL	mg/kg dry	0.0077	0.0022	1	8260B	7/20/10 0:58	KLA	P0G0350
Vinyl acetate	BRL	mg/kg dry	0.038	0.0053	1	8260B	7/20/10 0:58	KLA	P0G0350
Vinyl chloride	BRL	mg/kg dry	0.0077	0.0020	1	8260B	7/20/10 0:58	KLA	P0G0350
Xylenes, total	BRL	mg/kg dry	0.023	0.0058	1	8260B	7/20/10 0:58	KLA	P0G0350

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	101 %	70-130
Dibromofluoromethane	99 %	84-123
Toluene-d8	101 %	76-129

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/526-0409



Kleinfelder SE, Inc. (NCDOT Project)
Attn: John Stewart
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Project: NCDOT Parcel #107Auto

Project No: WBS# 34749.1.1

Prism Work Order: 0070410

Time Submitted: 7/14/10 4:05:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0350 - 5035										
Blank (P0G0350-BLK1)										
Prepared & Analyzed: 07/19/10										
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							

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Kleinfelder SE, Inc. (NCDOT Project)
Attn: John Stewart
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Project: NCDOT Parcel #107Auto
Project No: WBS# 34749.1.1

Prism Work Order: 0070410
Time Submitted: 7/14/10 4:05:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0350 - 5035										
Blank (P0G0350-BLK1)										
Prepared & Analyzed: 07/19/10										
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	50.5		ug/L	50.0		101	70-130			
Surrogate: Dibromofluoromethane	48.1		ug/L	50.0		96	84-123			
Surrogate: Toluene-d8	49.7		ug/L	50.0		99	76-129			
LCS (P0G0350-BS1)										
Prepared & Analyzed: 07/19/10										
1,1-Dichloroethylene	0.0575	0.0050	mg/kg wet	0.0500		115	67-149			
Benzene	0.0604	0.0030	mg/kg wet	0.0500		121	74-127			
Chlorobenzene	0.0581	0.0050	mg/kg wet	0.0500		116	74-118			
Toluene	0.0592	0.0050	mg/kg wet	0.0500		118	71-129			
Trichloroethylene	0.0619	0.0050	mg/kg wet	0.0500		124	75-133			
Surrogate: 4-Bromofluorobenzene	51.5		ug/L	50.0		103	70-130			
Surrogate: Dibromofluoromethane	49.6		ug/L	50.0		99	84-123			
Surrogate: Toluene-d8	50.4		ug/L	50.0		101	76-129			



Kleinfelder SE, Inc. (NCDOT Project)
Attn: John Stewart
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Project: NCDOT Parcel #107Auto
Project No: WBS# 34749.1.1

Prism Work Order: 0070410
Time Submitted: 7/14/10 4:05:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Table with columns: Analyte, Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes. Includes data for Batch P0G0350 - 5035 and LCS Dup (P0G0350-BSD1).



Kleinfelder SE, Inc. (NCDOT Project)
 Attn: John Stewart
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project: NCDOT Parcel #107Auto
 Project No: WBS# 34749.1.1

Prism Work Order: 0070410
 Time Submitted: 7/14/10 4:05:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0478 - 5035										
Blank (P0G0478-BLK1)										
Prepared & Analyzed: 07/22/10										
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	4.45		mg/kg wet	5.00		89	55-129			
LCS (P0G0478-BS1)										
Prepared & Analyzed: 07/22/10										
Gasoline Range Organics	41.2	5.0	mg/kg wet	50.0		82	67-116			
Surrogate: a,a,a-Trifluorotoluene	5.10		mg/kg wet	5.00		102	55-129			
LCS Dup (P0G0478-BSD1)										
Prepared & Analyzed: 07/22/10										
Gasoline Range Organics	42.2	5.0	mg/kg wet	50.0		84	67-116	3	200	
Surrogate: a,a,a-Trifluorotoluene	5.20		mg/kg wet	5.00		104	55-129			
Matrix Spike (P0G0478-MS1)										
Source: 0070410-01 Prepared & Analyzed: 07/22/10										
Gasoline Range Organics	77.7	8.7	mg/kg dry	86.7	5.09	84	57-113			
Surrogate: a,a,a-Trifluorotoluene	8.58		mg/kg dry	8.67		99	55-129			
Matrix Spike Dup (P0G0478-MSD1)										
Source: 0070410-01 Prepared & Analyzed: 07/22/10										
Gasoline Range Organics	79.8	8.7	mg/kg dry	86.7	5.09	86	57-113	3	23	
Surrogate: a,a,a-Trifluorotoluene	8.75		mg/kg dry	8.67		101	55-129			



Kleinfelder SE, Inc. (NCDOT Project)
 Attn: John Stewart
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project: NCDOT Parcel #107Auto
 Project No: WBS# 34749.1.1

Prism Work Order: 0070410
 Time Submitted: 7/14/10 4:05:00PM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0489 - 3545A										
Blank (P0G0489-BLK1)										
					Prepared: 07/22/10 Analyzed: 07/24/10					
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	1.37		mg/kg wet	1.60		86	49-124			
LCS (P0G0489-BS1)										
					Prepared: 07/22/10 Analyzed: 07/24/10					
Diesel Range Organics	66.9	7.0	mg/kg wet	80.0		84	55-109			
Surrogate: o-Terphenyl	1.47		mg/kg wet	1.60		92	49-124			
LCS Dup (P0G0489-BSD1)										
					Prepared: 07/22/10 Analyzed: 07/24/10					
Diesel Range Organics	73.2	7.0	mg/kg wet	79.8		92	55-109	9	200	
Surrogate: o-Terphenyl	1.99		mg/kg wet	1.60		125	49-124			A
Matrix Spike (P0G0489-MS1)										
		Source: 0070410-11			Prepared: 07/22/10 Analyzed: 07/24/10					
Diesel Range Organics	90.8	10	mg/kg dry	116	BRL	78	50-117			
Surrogate: o-Terphenyl	2.72		mg/kg dry	2.33		117	49-124			
Matrix Spike Dup (P0G0489-MSD1)										
		Source: 0070410-11			Prepared: 07/22/10 Analyzed: 07/24/10					
Diesel Range Organics	87.8	10	mg/kg dry	116	BRL	75	50-117	3	24	
Surrogate: o-Terphenyl	2.63		mg/kg dry	2.33		113	49-124			

Kleinfelder SE, Inc. (NCDOT Project)
Attn: John Stewart
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Project: NCDOT Parcel #107Auto
Project No: WBS# 34749.1.1

Prism Work Order: 0070410
Time Submitted: 7/14/10 4:05:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0388 - NO PREP										
Duplicate (P0G0388-DUP1)		Source: 0070410-11			Prepared & Analyzed: 07/20/10					
% Solids	68.0	0.100	% by Weight		68.4			0.6	20	

Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
0070410-17	P0G0489	25.11 g	1 mL	07/22/10
0070410-18	P0G0489	25.14 g	1 mL	07/22/10
0070410-19	P0G0489	25.06 g	1 mL	07/22/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0070410-17	P0G0478	4.87 g	5 mL	07/22/10
0070410-18	P0G0478	6.88 g	5 mL	07/22/10
0070410-19	P0G0478	6.12 g	5 mL	07/22/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0070410-17	P0G0388	30 g	30 mL	07/20/10
0070410-18	P0G0388	30 g	30 mL	07/20/10
0070410-19	P0G0388	30 g	30 mL	07/20/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0070410-17	P0G0350	4.49 g	5 mL	07/19/10
0070410-18	P0G0350	5.61 g	5 mL	07/19/10
0070410-19	P0G0350	4.35 g	5 mL	07/19/10



Full-Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240843 • Charlotte, NC 28224-0843
Phone: 704/528-6304 • Fax: 704/525-0409

Client Company Name: Klein Elder
Report To/Contact Name: John Stewart
Reporting Address: 313 Galimont Dairy Rd.
Greensboro, NC

Phone: 336-668-0093 Fax (Yes/No):
Email (Yes/No) Email Address: John Stewart@KleinElder.com
EDD Type: PDF Excel Other
Site Location Name: Parcel 107BP
Site Location Physical Address: Cherlocky, NC

CHAIN OF CUSTODY RECORD

PAGE 3 OF 3 QUOTE # TO ENSURE PROPER BILLING:
Project Name: NC DOT- Parcel # 107BP
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I III IV) provisions and/or QC Requirements
Invoice To: John Stewart
Address: (SAME)

Purchase Order No./Billing Reference: 111989
Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
"Working Days" 6-9 Days Standard 10 days Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

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				
B-1 (10-12)	7-14-10	0818	SO	4		Methanol	X	Sample B-1	01
B-2 (7.5-10)	7-14-10	0826	SO	4		"	X	through B-16	02
B-3 (10-12)	7-14-10	0841	SO	4		"	X	for Parcel 107BP	03
B-4 (10-12)	7-14-10	0900	SO	4		"	X	on one report	04
B-5 (2.5-5)	7-14-10	0930	SO	4		"	X		05
B-6 (10-12)	7-14-10	0956	SO	4		"	X		06
B-7 (0-2.5)	7-14-10	1003	SO	4		"	X		07
B-8 (0-2.5)	7-14-10	1022	SO	4		"	X		08
B-9 (2.5-5)	7-14-10	1025	SO	4		"	X		09
B-10 (7.5-10)	7-14-10	1040	SO	4		"	X		10

Sampler's Signature: [Signature] Sampled By (Print Name): Tina Stewart Affiliation: Klenfelder

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) [Signature]
Relinquished By: (Signature) [Signature] Received By: (Signature) [Signature]
Relinquished By: (Signature) [Signature] Received For Prism Laboratories By: [Signature]

Method of Shipment: Fed Ex UPS Hand-delivered Prism Field Service Other
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.

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

LAB USE ONLY

YES NO N/A
Samples INTACT upon arrival?
Received ON WET ICE? 19.2
PROPER PRESERVATIVES indicated?
Received WITHIN FOLDING TIMES?
CUSTODY SEALS INTACT?
VOLATILES rec'd W/OUT HEADSPACE?
PROPER CONTAINERS used?

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

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

Additional Comments:
WBS# 3A7A9.1.1

SEE REVERSE FOR TERMS & CONDITIONS
ORIGINAL

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40

Chf 1261pg28



Full-Service Analytical & Environmental Solutions

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

Client Company Name: Kleinfeldes
Report To/Contact Name: John Stewart
Reporting Address: 313 Gallimore Dairy Rd. Greensboro, NC 27409

Phone: 36-660-0093 Fax (Yes) (No):
Email (Yes) (No) Email Address: JM Stewart
EDD Type: PDF Excel Other Kleinfelder
Site Location Name: Parcel 107A to Com
Site Location Physical Address: Charlotte, NC

CHAIN OF CUSTODY RECORD

PAGE 3 OF 3 QUOTE # TO ENSURE PROPER BILLING:

Project Name: NC DOT - Parcel 107A to
Short Hold Analysis: (Yes) (No) UST Project (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I III III IV) provisions and/or QC Requirements
Invoice To: John Stewart
Address: Same

Purchase Order No./Billing Reference: 111989
Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
"Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

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				
B-1 (2.5-5)	7-14-10	1319	SO	8			X X X	sample B-1 through B-3 for parcel 107A to 14 on one report (separated from pp 1+2 for parcel 107BP)	17
B-2 (2.5-5)	7-14-10	1329	SO	8			X X X		18
B-3 (2.5-10)	7-14-10	1410	SO	8			X X X		

Sampler's Signature: [Signature] Sampled By (Print Name): Tina Stewart Affiliation: Kleinfelder

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) [Signature] Date: 7/14/10 Mileage/Hours: 10/14

Relinquished By: (Signature) [Signature] Received By: (Signature) [Signature] Date: 7-14-10 Mileage/Hours: 16:05

Relinquished By: (Signature) [Signature] Received For Prism Laboratories By: [Signature] Date: 7-14-10 Mileage/Hours: 16:05

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

Fed Ex UPS Hand-delivered Prism Field Service Other

NPDES: NC SC NC SC NC SC NC SC NC SC NC SC NC SC NC SC

OTHER: LANDFILL NC SC NC SC NC SC NC SC

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

LAB USE ONLY

Samples INTACT upon arrival? YES NO N/A

Resolved ON WET ICE Temp: 19.2

PROPER PRESERVATIVES indicated?

Received WITHIN HOLDING TIMES?

CUSTODY SEALS INTACT?

VOILATILES rec'd W/OUT HEADSPACE?

PROPER CONTAINERS used?

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC USACE FL NC

Water Chlorinated: YES NO N/A

Sample Iced Upon Collection: YES NO

PRISM USE ONLY

Site Arrival Time: _____

Site Departure Time: _____

Field Tech Fee: _____

Mileage: _____

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

08/12/81pg28