

PRELIMINARY SITE ASSESSMENT

**PARCEL #17, BB&R PROPERTY
NEW ROUTE FROM SR1660 (SILER ROAD) TO SR 1662 (WILEY BROWN ROAD)
SOUTH OF US 441
MACON COUNTY, NORTH CAROLINA**

**NCDOT WBS ELEMENT 40118.1.1
STATE PROJECT R-4748**

November 12, 2009

Prepared for:

**Mr. Mohammed Mulla, P. E.
North Carolina Department of Transportation
Geotechnical 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. 106210

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November 12, 2009
File No.: 106210 | GSO09R222

Mr. Mohammed Mulla, P. E.
North Carolina Department of Transportation
1589 Mail Service Center
Raleigh, North Carolina 27699-1589

Reference: **Preliminary Site Assessment**
WBS Element No. 40118.1.1, State Project R-4748
Parcel #17, BB&R Property
Macon County, North Carolina

Dear Mr. Mulla:

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 detected contaminant concentrations exceeding the State action levels in one of 15 samples. 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.

A handwritten signature in cursive script that reads "Gail G. Licayan".

Gail G. Licayan, P.E.
Project Professional

A handwritten signature in cursive script that reads "John M. Stewart".
John M. Stewart, P.G.
Senior Professional

GGL/JMS:cas
Enclosure

PRELIMINARY SITE ASSESSMENT

Site Name and Location: Parcel #17, BB&R Property
376 Dowdle Mountain Road
Franklin, Macon County, North Carolina

Latitude and Longitude: 35° 9' 56.8" N, 83° 22' 8.0" W

Facility ID Number: 0-036698

NCDOT Project No.: NCDOT WBS Element 40118.1.1
State Project R-4748

Date of Report: November 12, 2009

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.


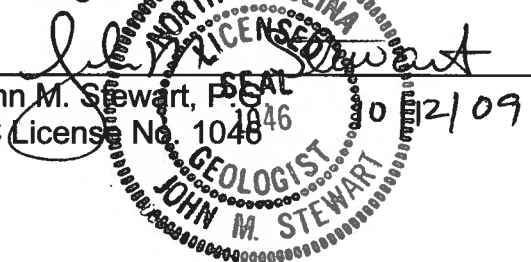

John M. Stewart, P.E.
NC License No. 1046
012/09


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1.0 BACKGROUND

The area of investigation is a proposed section of right-of-way located adjacent to 376 Dowdle Mountain Road in Franklin, Macon County, North Carolina (Figure 1). The proposed right-of-way is located north and east of property owned by BB&R, LLC, and at the time of our site reconnaissance, this parcel was occupied by an active gas station and convenience store (Dowdle Mountain Pit Stop, Facility ID No. 0-036698). Four underground storage tanks (USTs) are registered for the facility. The facility is located on the east side of the intersection of State Route 1701 and Dowdle Mountain Road and consists of one tax parcel (Tax ID 0103911).

The North Carolina Department of Transportation (NCDOT) is proposing to construct a new route from State Route 1660 (Siler Road) to State Route 1662 (Wiley Brown Road) south of US Route 441. The proposed right-of-way is located adjacent to the Dowdle Mountain Pit Stop (Figure 2). There is concern that contaminated soils could be encountered during the construction activities at this site. It is the purpose of this Preliminary Site Assessment to determine if soil along the proposed right-of-way has been impacted by activities at this facility.

2.0 SOIL ASSESSMENT

To determine if contaminated soil may be encountered during the proposed construction activities, soil samples were collected adjacent to the northwest and southeast sides of the BB&R property. On October 6, 2009, fifteen soil borings were completed in the proposed right-of-way (Figure 3). The boring logs are included in Appendix A.

Soil borings were advanced to a depth of 12 feet below the ground surface (bgs). Soil samples were collected at 4-foot intervals. In each soil boring, the samples were screened for volatile organic compounds in the field using a MiniRae 2000 photo-ionization detector (PID). In each boring, the soil sample with the highest PID reading was collected for laboratory analysis. The PID readings are summarized in Table 1. When no organic vapors were detected, the sample from 12 feet bgs was collected for analysis.

The soil samples were collected using a direct push rig. Prior to the initial sample and after each subsequent sample, 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. All soil samples were placed into laboratory provided jars, labeled, and maintained on ice until delivered to a NCDOT contract laboratory for chemical analysis.

3.0 RESULTS

Petroleum hydrocarbons similar to diesel were detected at concentrations above the State action level of 10 milligrams per kilogram in soil sample SS-15 12'. Petroleum hydrocarbons were not detected at concentrations above the method detection limits in the remainder of the soil samples. The laboratory results are summarized in Table 2 and figure 3. The laboratory report and associated chain-of-custody document are included in Appendix B.

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.
- ◆ Total petroleum hydrocarbons similar to diesel were detected above the State action level in one of the fifteen soil samples collected from the site. Petroleum hydrocarbons were not detected at concentrations above the method detection limits in the remainder of the soil samples.
- ◆ Based on the laboratory results, petroleum impacted soil is located at a depth of 12 feet bgs in the area of SS-15 which is located in the northern corner of the project area.
- ◆ Contaminated soil was not encountered above a depth of 12 feet, except in boring B-12, where low concentrations of DRO were detected at 12 feet. This boring was located approximately 50 feet from the nearest source of petroleum; i.e., USTs or dispensers and there was no evidence of

contamination; i.e., PID readings or petroleum odors in the shallower soils in the boring. We therefore believe the DRO detected in the sample may be a laboratory artifact, so no volume of contaminated soil was determined.

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
SS-1	4.0	0.2
	8.0	3.3
	12.0	0.3
SS-2	4.0	0.0
	8.0	0.0
	12.0	0.0
SS-3	4.0	1.6
	8.0	1.6
	12.0	0.3
SS-4	4.0	0.0
	8.0	0.0
	12.0	0.0
SS-5	4.0	2.3
	8.0	78.1
	12.0	1.4
SS-6	4.0	5.5
	8.0	4.9
	12.0	0.8
SS-7	4.0	0.6
	8.0	1.4
	12.0	0.4
SS-8	4.0	1.3
	8.0	2.4
	12.0	1.5
SS-9	4.0	0.3
	8.0	0.4
	12.0	0.4
SS-10	4.0	0.2
	8.0	0.5
	12.0	0.5
SS-11	4.0	0.3
	8.0	0.4
	12.0	0.6
SS-12	4.0	0.0
	8.0	0.4
	12.0	0.5
SS-13	4.0	3.5
	8.0	1.5
	12.0	0.6
SS-14	4.0	0.8
	8.0	0.4
	12.0	0.9
SS-15	4.0	0.4
	8.0	0.1
	12.0	11.0

Notes:

Samples were collected on October 6, 2009.

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
SS-1 8'	10-6-2009	BRL	BRL
SS-2 12'	10-6-2009	BRL	BRL
SS-3 4'	10-6-2009	BRL	BRL
SS-4 12'	10-6-2009	BRL	BRL
SS-5 8'	10-6-2009	BRL	BRL
SS-6 4'	10-6-2009	BRL	BRL
SS-7 8'	10-6-2009	BRL	BRL
SS-8 8'	10-6-2009	BRL	BRL
SS-9 12'	10-6-2009	BRL	BRL
SS-10 12'	10-6-2009	BRL	BRL
SS-11 12'	10-6-2009	BRL	BRL
SS-12 12'	10-6-2009	BRL	BRL
SS-13 4'	10-6-2009	BRL	BRL
SS-14 12'	10-6-2009	BRL	BRL
SS-15 12'	10-6-2009	24	BRL
State Action Level		10	10

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

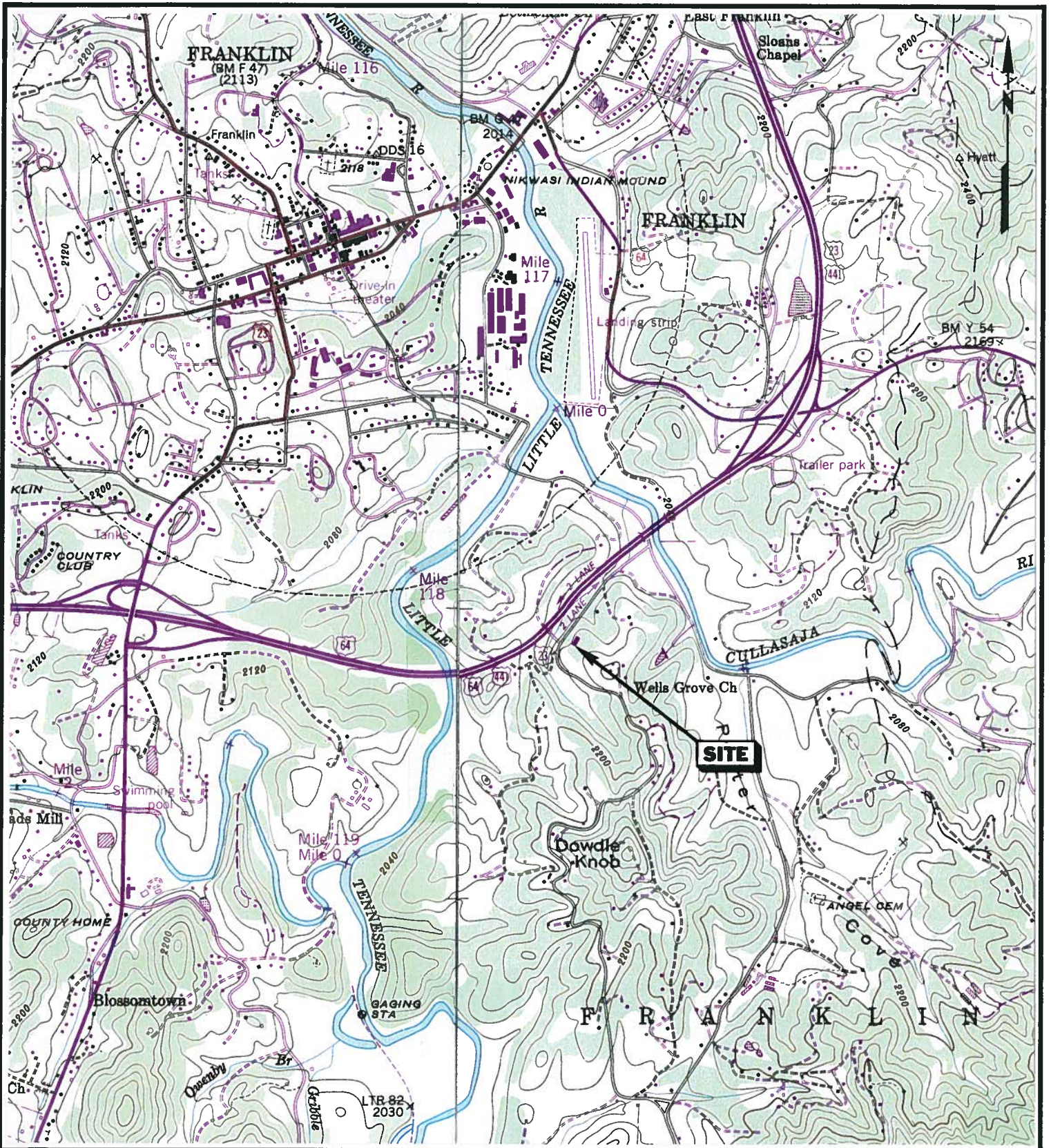
DRO = Diesel Range Organics

GRO = Gasoline Range Organics

BRL = Below reporting limit

Bold denotes concentration exceeds the State Action Level

FIGURES



**FIGURE 1
SITE LOCATION MAP**

**PARCEL #17 – BB&R PROPERTY
376 DOWDLE MOUNTAIN ROAD
MACON COUNTY, NORTH CAROLINA**

DATE: 11/05/2009

APPROVED BY:

SCALE: 1" = 2,000'

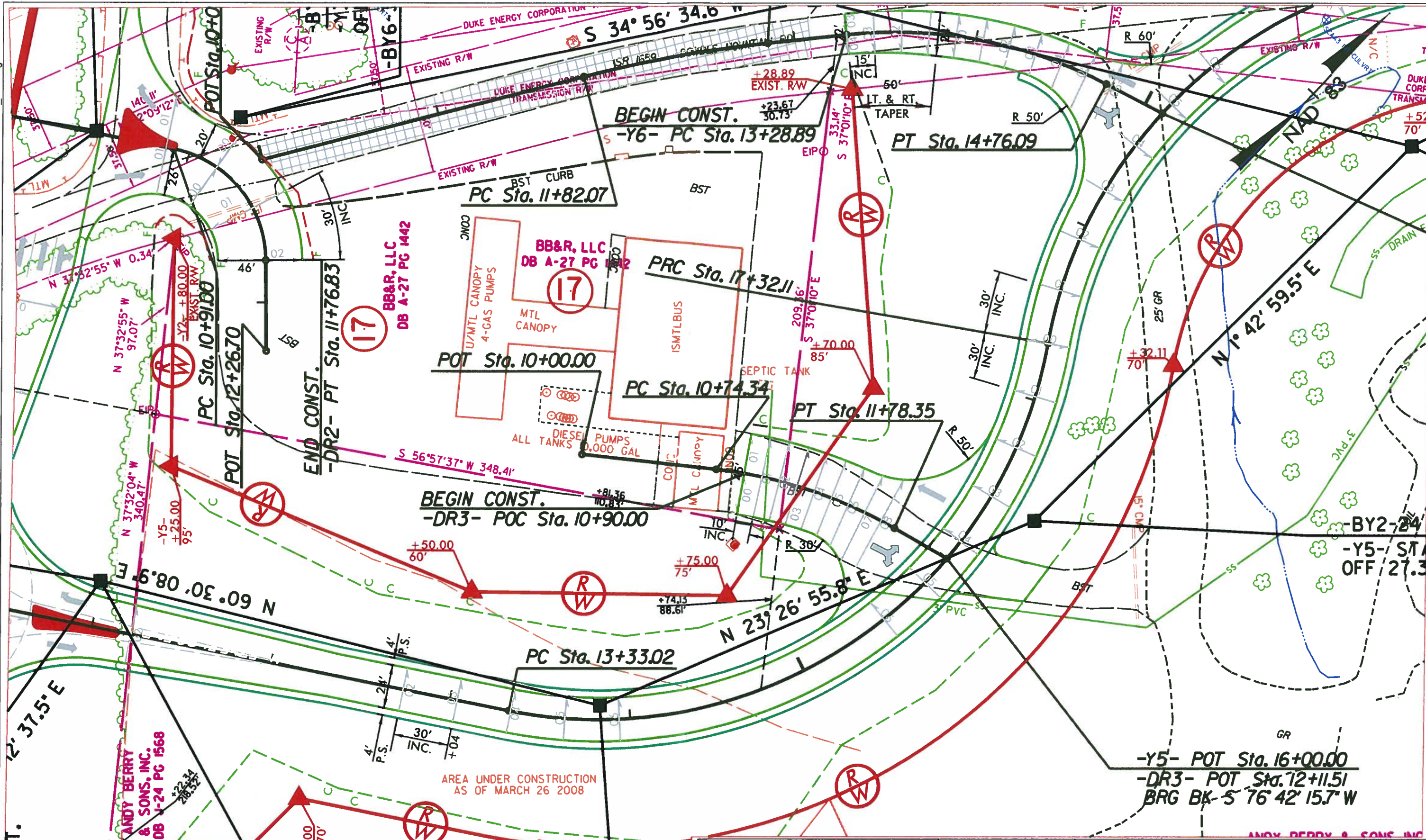
SOURCE: USGS 7.5' Topographic Map, 1946 (PR 1978) Corbin Knob and Franklin Quadrangles

gms

PROJECT NO.
106210



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PROJECT NO.	106210
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DRAWN BY:	SLK
CHECKED BY:	JMS
SCALE:	1" = 50'

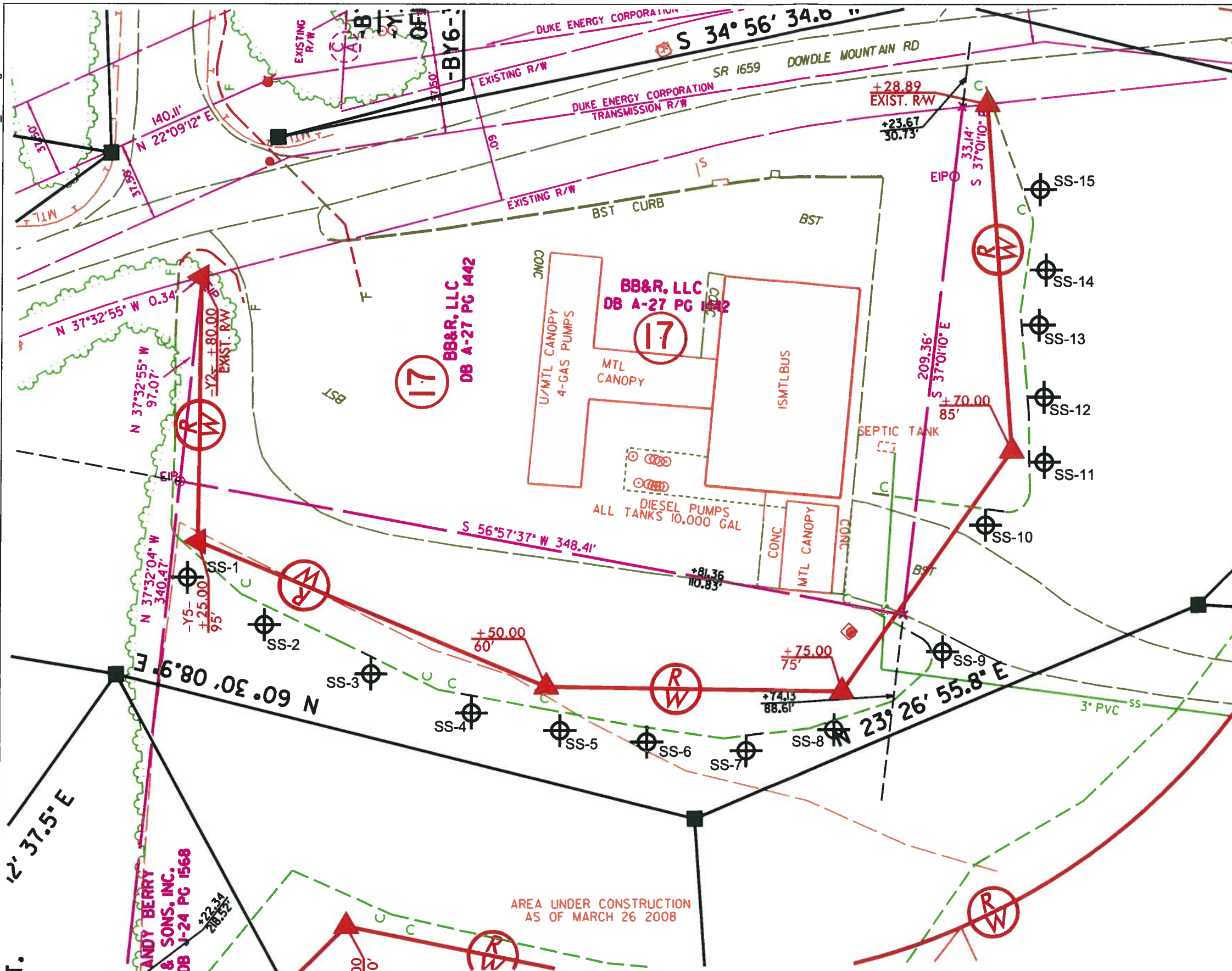
SITE MAP	
PARCEL #17	
BB&R PROPERTY	
376 DOWDLE MOUNTAIN ROAD	
TIP NO.	R-4748
FEDERAL NO.	40118.1.1
MACON COUNTY	
NORTH CAROLINA	

FIGURE:
2

DRAWING NAME: 106210_FIG3.dgn

KLEINFELDER JOB NUMBER: 106210

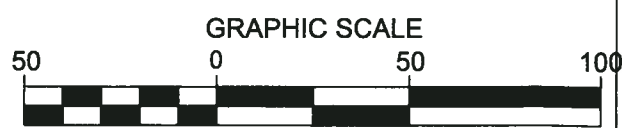
OFFICE LOCATION: GREENSBORO



Sample ID	Collection Date	DRO	GRO
SS-1	8'	10-6-2009	BRL
SS-2	12'	10-6-2009	BRL
SS-3	4'	10-6-2009	BRL
SS-4	12'	10-6-2009	BRL
SS-5	8'	10-6-2009	BRL
SS-6	4'	10-6-2009	BRL
SS-7	8'	10-6-2009	BRL
SS-8	8'	10-6-2009	BRL
SS-9	12'	10-6-2009	BRL
SS-10	12'	10-6-2009	BRL
SS-11	12'	10-6-2009	BRL
SS-12	12'	10-6-2009	BRL
SS-13	4'	10-6-2009	BRL
SS-14	12'	10-6-2009	BRL
SS-15	12'	10-6-2009	24
State Action Level		10	10

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

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PROJECT NO. 106210
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 DRAWN BY: SLK
 CHECKED BY: JMS
 SCALE: 1" = 50'

BORING LOCATION MAP
PARCEL #17
BB&R PROPERTY
376 DOWDLE MOUNTAIN ROAD
 TIP NO. R-4748 FEDERAL NO. 40118.1.1
 MACON COUNTY
 NORTH CAROLINA

FIGURE:
3

EXPLANATION
 SS-1 BORING LOCATION

APPENDIX A

Client North Carolina Department of Transportation Drill Contractor Probe Technology

LOG OF BORING SS-1

SHEET 1 OF 1

Project Name Project R-4748/WBS 40118.1.1 Drill Method 2 Inch Direct Push

Elevation —

Number 106210


Drilling Started 10/6/09 Ended 10/6/09

Total Depth 12.0

Location Parcel #17, BB&R Property

Logged By G. Licayan

Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
5			0.2	SM		RESIDUAL: Moist, Brown and Yellowish Brown, Silty Fine to Coarse SAND	5
8	SS 1-8'		3.3				10
12			0.3				12
Boring Terminated at 12 feet in RESIDUAL							

LOG A EWINN05 106210.GPJ LOG A EWINN05.GDT 11/12/09



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Remarks

See key sheet for symbols and abbreviations used above.

Client North Carolina Department of Transportation Drill Contractor Probe Technology

LOG OF BORING SS-2

SHEET 1 OF 1

Project Name Project R-4748/WBS 40118.1.1 Drill Method 2 Inch Direct Push

Elevation —

Number 106210

Drilling Started 10/6/09 Ended 10/6/09

Total Depth 12.0

Location Parcel #17, BB&R Property

Logged By G. Licayan

Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
5			0.0	SM		RESIDUAL: Moist, Dark Reddish Brown, Silty Fine to Coarse SAND	5
10			0.0				10
12	SS 2-12'		0.0			Boring Terminated at 12 feet in RESIDUAL	12
15							15
20							20
25							25
30							30

LOG A EWINN05 106210.GPJ LOG A EWINN05.GDT 11/12/09



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Remarks

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Client North Carolina Department of Transportation Drill Contractor Probe Technology

LOG OF BORING SS-3

SHEET 1 OF 1

Project Name Project R-4748/WBS 40118.1.1 Drill Method 2 Inch Direct Push

Elevation —

Number 106210

Drilling Started 10/6/09 Ended 10/6/09

Total Depth 12.0

Location Parcel #17, BB&R Property

Logged By G. Licayan

Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
5	SS 3-4'		1.6	SM		RESIDUAL: Moist, Brown and Yellowish Brown, Silty Fine to Coarse SAND	5
10			1.6				10
15			0.3			Boring Terminated at 12 feet in RESIDUAL	15
20							20
25							25
30							30

LOG A EWINN05 106210.GPJ LOG A EWINN05.GDT 11/12/09



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LOG OF BORING SS-4

SHEET 1 OF 1

Project Name Project R-4748/WBS 40118.1.1 Drill Method 2 Inch Direct Push Elevation --

Number 106210 Drilling Started 10/6/09 Ended 10/6/09 Total Depth 12.0

Location Parcel #17, BB&R Property Logged By G. Licayan Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
5			0.0	SM		RESIDUAL: Moist, Red and Dark Reddish Brown, Silty Fine to Coarse SAND	5
10			0.0				10
11.5	SS 4-12'		0.0				11.5
12						Boring Terminated at 12 feet in RESIDUAL	12
15							15
20							20
25							25
30							30

LOG A EWINN05 106210.GPJ LOG A EWINN05.GDT 11/12/09



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Remarks

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LOG OF BORING SS-5

SHEET 1 OF 1

Client North Carolina Department of Transportation Drill Contractor Probe Technology

Project Name Project R-4748/WBS 40118.1.1 Drill Method 2 Inch Direct Push

Elevation --

Number 106210 Drilling Started 10/6/09 Ended 10/6/09

Total Depth 12.0

Location Parcel #17, BB&R Property Logged By G. Licayan

Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
						RESIDUAL: Moist; Red, Yellowish Brown and Dark Reddish Brown, Silty Fine to Coarse SAND	
5			2.3				5
				SM			
10	SS 5-8'		78.1				10
15			1.4			Boring Terminated at 12 feet in RESIDUAL	15
20							20
25							25
30							30

LOG A EWN05 106210.GPJ LOG A EWN05.GDT 11/12/09



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Client North Carolina Department of Transportation Drill Contractor Probe Technology

LOG OF BORING SS-6

SHEET 1 OF 1

Project Name Project R-4748/WBS 40118.1.1 Drill Method 2 Inch Direct Push

Elevation --

Number 106210

Drilling Started 10/6/09 Ended 10/6/09

Total Depth 12.0

Location Parcel #17, BB&R Property

Logged By G. Licayan

Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
5	SS 6-4'		5.5	SM		RESIDUAL: Moist, Olive Brown to Yellowish Brown and Dark Brown, Silty Fine to Coarse SAND	5
10			4.9				10
15			0.8			Boring Terminated at 12 feet in RESIDUAL	15
20							20
25							25
30							30

LOG A EWN05 106210.GPJ LOG A EWN05.GDT 11/12/09



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Client North Carolina Department of Transportation Drill Contractor Probe Technology

LOG OF BORING SS-7

SHEET 1 OF 1

Project Name Project R-4748/WBS 40118.1.1 Drill Method 2 Inch Direct Push

Elevation

Number 106210 Drilling Started 10/6/09 Ended 10/6/09


Total Depth 12.0

Location Parcel #17, BB&R Property Logged By G. Licayan

Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
5			0.6			RESIDUAL: Moist, Red and Dark Reddish Brown, Silty Fine to Coarse SAND	5
7.8	SS 7-8'		1.4	SM			10
12			0.4			Boring Terminated at 12 feet in RESIDUAL	15
20							20
25							25
30							30

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Client North Carolina Department of Transportation Drill Contractor Probe Technology

LOG OF BORING SS-8

SHEET 1 OF 1

Project Name Project R-4748/WBS 40118.1.1

Drill Method 2 Inch Direct Push

Elevation --

Number 106210

Drilling Started 10/6/09 Ended 10/6/09

Total Depth 12.0

Location Parcel #17, BB&R Property

Logged By G. Licayan

Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
5			1.3			RESIDUAL: Moist, Red and Dark Brown, Silty Fine to Coarse SAND	5
8.8	SS 8-8'		2.4	SM			10
12			1.5			Boring Terminated at 12 feet in RESIDUAL	15
15							15
20							20
25							25
30							30

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Client North Carolina Department of Transportation Drill Contractor Probe Technology
 Project Name Project R-4748/WBS 40118.1.1 Drill Method 2 Inch Direct Push
 Number 106210 Drilling Started 10/6/09 Ended 10/6/09
 Location Parcel #17, BB&R Property Logged By G. Licayan


LOG OF BORING SS-9

SHEET 1 OF 1

Elevation
 Total Depth 12.0
 Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
5			0.3	SM		RESIDUAL: Moist, Brown and Light Brownish Gray, Silty Fine to Coarse SAND	5
10			0.4				10
12	SS 9-12'		0.4				12
Boring Terminated at 12 feet in RESIDUAL							

LOG A EWIN05 106210.GPJ LOG A EWIN05.GDT 11/12/09



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Remarks

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Client North Carolina Department of Transportation Drill Contractor Probe Technology

LOG OF BORING SS-10

SHEET 1 OF 1

Project Name Project R-4748/WBS 40118.1.1 Drill Method 2 Inch Direct Push

Elevation —

Number 106210 Drilling Started 10/6/09 Ended 10/6/09

Total Depth 12.0

Location Parcel #17, BB&R Property Logged By G. Licayan

Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
5			0.2	SM		RESIDUAL: Moist, Red and Dark Reddish Brown, Silty Fine to Coarse SAND	5
10			0.5				10
10.5	SS 10-12'		0.5				10.5
12						Boring Terminated at 12 feet in RESIDUAL	12
15							15
20							20
25							25
30							30

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Remarks

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 Project Name Project R-4748/WBS 40118.1.1 Drill Method 2 Inch Direct Push
 Number 106210 Drilling Started 10/6/09 Ended 10/6/09
 Location Parcel #17, BB&R Property Logged By G. Licayan


LOG OF BORING SS-11

SHEET 1 OF 1

Elevation --
 Total Depth 12.0
 Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
5			0.3	SM		RESIDUAL: Moist, Red and Dark Reddish Brown, Silty Fine to Coarse SAND	5
10			0.4				10
11-12'	SS 11-12'		0.6				
15						Boring Terminated at 12 feet in RESIDUAL	15
20							20
25							25
30							30

LOG A EWN05 106210.GPJ LOG A EWN05.GDT 11/12/09



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

Remarks

See key sheet for symbols and abbreviations used above.

Client North Carolina Department of Transportation Drill Contractor Probe Technology

LOG OF BORING SS-12

SHEET 1 OF 1

Project Name Project R-4748/WBS 40118.1.1 Drill Method 2 Inch Direct Push

Elevation --

Number 106210 Drilling Started 10/6/09 Ended 10/6/09

Total Depth 12.0

Location Parcel #17, BB&R Property Logged By G. Licayan

Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
5			0.0	SM		RESIDUAL: Moist, Reddish Yellow and Dark Brown, Silty Fine to Coarse SAND	5
10			0.4				10
12	SS 12-12'		0.5			Boring Terminated at 12 feet in RESIDUAL	12
15							15
20							20
25							25
30							30

LOG A EWINN05 106210.GPJ LOG A EWINN05.GDT 11/12/09



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

Remarks

See key sheet for symbols and abbreviations used above.

Client North Carolina Department of Transportation Drill Contractor Probe Technology

LOG OF BORING SS-13

SHEET 1 OF 1

Project Name Project R-4748/WBS 40118.1.1 Drill Method 2 Inch Direct Push

Elevation --

Number 106210 Drilling Started 10/6/09 Ended 10/6/09

Total Depth 12.0

Location Parcel #17, BB&R Property Logged By G. Licayan

Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
5	SS 13-4'		3.5	SM		RESIDUAL: Moist, Reddish Yellow and Dark Reddish Brown, Silty Fine to Coarse SAND	5
10			1.5				10
12			0.6			Boring Terminated at 12 feet in RESIDUAL	12
15							15
20							20
25							25
30							30

LOG A EWINN05 106210.GPJ LOG A EWINN05.GDT 11/12/09



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 Telephone: 336-668-0093
 Fax: 336-668-3868

Remarks

See key sheet for symbols and abbreviations used above.

Client North Carolina Department of Transportation Drill Contractor Probe Technology

LOG OF BORING SS-14

SHEET 1 OF 1

Project Name Project R-4748/WBS 40118.1.1

Drill Method 2 Inch Direct Push

Elevation --

Number 106210

Drilling Started 10/6/09 Ended 10/6/09

Total Depth 12.0

Location Parcel #17, BB&R Property

Logged By G. Licayan

Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
5			0.8	SM		RESIDUAL: Moist, Reddish Yellow and Dark Brown, Silty Fine to Coarse SAND	5
10			0.4				10
12	SS 14-12'		0.9				12
15						Boring Terminated at 12 feet in RESIDUAL	15
20							20
25							25
30							30

LOG A EWINN05_106210.GPJ LOG A EWINN05.GDT 11/12/09



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

Remarks

See key sheet for symbols and abbreviations used above.

Client North Carolina Department of Transportation Drill Contractor Probe Technology

LOG OF BORING SS-15

SHEET 1 OF 1

Project Name Project R-4748/WBS 40118.1.1

Drill Method 2 Inch Direct Push

Elevation --

Number 106210

Drilling Started 10/6/09 Ended 10/6/09

Total Depth 12.0

Location Parcel #17, BB&R Property

Logged By G. Licayan

Depth To Water

DEPTH FEET	SAMPLE NO.	BLOWS/FT	PID ppm	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
5			0.4	SM		RESIDUAL: Moist, Reddish Yellow and Dark Brown, Silty Fine to Coarse SAND	5
10			0.1				10
11.0	SS 15-12'		11.0				11.0
12.0						Boring Terminated at 12 feet in RESIDUAL	12.0
15							15
20							20
25							25
30							30

LOG A EWINN05 106210.GPJ LOG A EWINN05.GDT 11/12/09



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

Remarks

See key sheet for symbols and abbreviations used above.

APPENDIX B



Case Narrative

Date: 10/23/09
Company: N.C. Department of Transportation
Contact: Peter Pozzo
Address: c/o Kleinfelder
313 Gallimore Dairy Rd.
Greensboro, NC 27409

Client Project ID: 376 Dowdle Mt. Rd.
Prism COC Group No: G1009216
Collection Date(s): 10/06/09
Lab Submittal Date(s): 10/07/09

Client Project Name Or No: Macon Co. WBS# 40118.1.1

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 17 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.

Data Reviewed by: Robbi A. Jones

Project Manager: Angela D. Overcash

Signature:

Signature:

Review Date: 10/23/09

Approval Date: 10/23/09

Data Qualifiers Key Reference:

- B: Compound also detected in the method blank.
- #: Result outside of the QC limits.
- DC: 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

10/23/09

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-1 8'
 Prism Sample ID: 260055
 COC Group: G1009216
 Time Collected: 10/06/09 8:38
 Time Submitted: 10/07/09 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	82.7	%			1	SM2540 G	10/12/09 16:20	mbarber	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	8.5	1.4	1	8015B	10/15/09 21:30	jvogel	Q45244
Sample Preparation:			25.04 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	53	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	6.35	g			1	GRO	10/12/09 0:00	lbrown	
Weight 2	5.84	g			1	GRO	10/12/09 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	0.74	50	8015B	10/15/09 19:57	grappaccoli	Q45223
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	109	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
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 NC Drinking Water Cert. No. 37735

Laboratory Report

10/23/09

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-2 12'
 Prism Sample ID: 260056
 COC Group: G1009216
 Time Collected: 10/06/09 9:00
 Time Submitted: 10/07/09 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	73.7	%			1	SM2540 G	10/12/09 16:20	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	9.4	1.5	1	8015B	10/15/09 22:06	jvogel	Q45244
Sample Preparation:			25.15 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
			Surrogate				% Recovery	Control Limits	
			o-Terphenyl				52	49 - 124	
Sample Weight Determination									
Weight 1	6.06	g			1	GRO	10/12/09 0:00	lbrown	
Weight 2	5.77	g			1	GRO	10/12/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.8	0.83	50	8015B	10/15/09 20:29	grappaccioli	Q45223
			Surrogate				% Recovery	Control Limits	
			aaa-TFT				104	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Laboratory Report

10/23/09

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-3 4'
 Prism Sample ID: 260057
 COC Group: G1009216
 Time Collected: 10/06/09 9:10
 Time Submitted: 10/07/09 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	80.4	%			1	SM2540 G	10/12/09 16:20	mbarber	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	8.7	1.4	1	8015B	10/15/09 22:41	jvogel	Q45244
Sample Preparation:			25.02 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
			Surrogate				% Recovery	Control Limits	
			o-Terphenyl				51	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	5.89	g			1	GRO	10/12/09 0:00	lbrown	
Weight 2	5.77	g			1	GRO	10/12/09 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.2	0.76	50	8015B	10/15/09 21:02	grappaccioli	Q45223
			Surrogate				% Recovery	Control Limits	
			aaa-TFT				109	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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 NC Drinking Water Cert. No. 37735

Laboratory Report

10/23/09

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-4 12'
 Prism Sample ID: 260058
 COC Group: G1009216
 Time Collected: 10/06/09 9:40
 Time Submitted: 10/07/09 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	75.9	%			1	SM2540 G	10/12/09 16:20	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	9.2	1.5	1	8015B	10/15/09 23:16	lvogel	Q45244
Sample Preparation:			24.99 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	54	49 - 124	
Sample Weight Determination									
Weight 1	7.03	g			1	GRO	10/12/09 0:00	lbrown	
Weight 2	7.19	g			1	GRO	10/12/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.6	0.80	50	8015B	10/15/09 21:35	grappaccioli	Q45223
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	122	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Laboratory Report

10/23/09

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-5 8'
 Prism Sample ID: 260059
 COC Group: G1009216
 Time Collected: 10/06/09 10:00
 Time Submitted: 10/07/09 16:30

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

Percent Solids Determination

Percent Solids	81.9	%			1	SM2540 G	10/12/09 16:20	mbarber	
----------------	------	---	--	--	---	----------	----------------	---------	--

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.6	1.4	1	8015B	10/16/09 7:32	jvogel	Q45244
-----------------------------	-----	-------	-----	-----	---	-------	---------------	--------	--------

Sample Preparation:			24.84 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
---------------------	--	--	---------	---	------	------	----------------	----------	--------

Surrogate	% Recovery	Control Limits
o-Terphenyl	56 #	49 - 124

Sample Weight Determination

Weight 1	6.52	g			1	GRO	10/12/09 0:00	lbrown	
----------	------	---	--	--	---	-----	---------------	--------	--

Weight 2	6.74	g			1	GRO	10/12/09 0:00	lbrown	
----------	------	---	--	--	---	-----	---------------	--------	--

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	0.74	50	8015B	10/15/09 22:08	grappaccioli	Q45223
-------------------------------	-----	-------	-----	------	----	-------	----------------	--------------	--------

Surrogate	% Recovery	Control Limits
aaa-TFT	126	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Laboratory Report

10/23/09

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-6 4'
 Prism Sample ID: 260060
 COC Group: G1009216
 Time Collected: 10/06/09 10:15
 Time Submitted: 10/07/09 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	83.6	%			1	SM2540 G	10/12/09 16:20	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.3	1.3	1	8015B	10/15/09 23:52	jvogel	Q45244
Sample Preparation:			25.18 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	50	49 - 124	
Sample Weight Determination									
Weight 1	5.98	g			1	GRO	10/12/09 0:00	lbrown	
Weight 2	6.03	g			1	GRO	10/12/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	0.73	50	8015B	10/15/09 22:40	grappaccioli	Q45223
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	121	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

10/23/09

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-7 8'
 Prism Sample ID: 260061
 COC Group: G1009216
 Time Collected: 10/06/09 10:30
 Time Submitted: 10/07/09 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	76.6	%			1	SM2540 G	10/12/09 16:20	mbarber	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	9.2	1.5	1	8015B	10/16/09 6:57	jvoegel	Q45244
Sample Preparation:			24.89 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
						Surrogate	% Recovery	Control Limits	
						c-Terphenyl	59	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	5.96	g			1	GRO	10/12/09 0:00	lbrown	
Weight 2	6.26	g			1	GRO	10/12/09 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.5	0.80	50	8015B	10/15/09 23:13	grappaccioli	Q45223
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	115	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.

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Laboratory Report

10/23/09

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-8 8'
 Prism Sample ID: 260062
 COC Group: G1009216
 Time Collected: 10/06/09 10:50
 Time Submitted: 10/07/09 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	69.1	%			1	SM2540 G	10/12/09 16:20	mbarber	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	10	1.6	1	8015B	10/16/09 1:02	jvogel	Q45244
Sample Preparation:			25.12 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	57	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	6.28	g			1	GRO	10/12/09 0:00	lbrown	
Weight 2	6.32	g			1	GRO	10/12/09 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	7.2	0.88	50	8015B	10/15/09 23:46	grappaccioli	Q45223
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	116	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.

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Laboratory Report

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 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-9 12'
 Prism Sample ID: 260063
 COC Group: G1009216
 Time Collected: 10/06/09 11:08
 Time Submitted: 10/07/09 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	80.0	%			1	SM2540 G	10/12/09 16:20	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.8	1.4	1	8015B	10/16/09 1:38	lvogel	Q45244
Sample Preparation:			24.96 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	61	49 - 124	
Sample Weight Determination									
Weight 1	6.28	g			1	GRO	10/12/09 0:00	lbrown	
Weight 2	6.39	g			1	GRO	10/12/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.3	0.76	50	8015B	10/16/09 0:19	grappaccioli	Q45223
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	107	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

10/23/09

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-10 12'
 Prism Sample ID: 260064
 COC Group: G1009216
 Time Collected: 10/06/09 11:25
 Time Submitted: 10/07/09 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	74.9	%			1	SM2540 G	10/12/09 16:20	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	9.3	1.5	1	8015B	10/16/09 2:14	lvogel	Q45244
Sample Preparation:			25.17 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
					Surrogate		% Recovery	Control Limits	
					o-Terphenyl		59	49 - 124	
Sample Weight Determination									
Weight 1	5.24	g			1	GRO	10/12/09 0:00	lbrown	
Weight 2	5.20	g			1	GRO	10/12/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.7	0.81	50	8015B	10/16/09 0:51	grappaccioli	Q45223
					Surrogate		% Recovery	Control Limits	
					aaa-TFT		123	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

10/23/09

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-11 12'
 Prism Sample ID: 260065
 COC Group: G1009216
 Time Collected: 10/08/09 11:45
 Time Submitted: 10/07/09 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	72.6	%			1	SM2540 G	10/12/09 16:20	mbarber	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	9.6	1.5	1	8015B	10/16/09 2:49	lvogel	Q45244
Sample Preparation:			25.2 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	55	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	6.50	g			1	GRO	10/12/09 0:00	lbrown	
Weight 2	6.46	g			1	GRO	10/12/09 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.9	0.84	50	8015B	10/16/09 2:30	grappaccioli	Q45223
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	111	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

10/23/09

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-12 12'
 Prism Sample ID: 260066
 COC Group: G1009216
 Time Collected: 10/06/09 12:05
 Time Submitted: 10/07/09 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	86.0	%			1	SM2540 G	10/12/09 16:20	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.2	1.3	1	8015B	10/16/09 3:24	jvogel	Q45244
Sample Preparation:			24.9 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	54	49 - 124	
Sample Weight Determination									
Weight 1	6.09	g			1	GRO	10/12/09 0:00	lbrown	
Weight 2	6.39	g			1	GRO	10/12/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.8	0.71	50	8015B	10/16/09 3:03	grappaccioli	Q45223
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	110	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

10/23/09

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-13 4'
 Prism Sample ID: 260067
 COC Group: G1009216
 Time Collected: 10/06/09 12:20
 Time Submitted: 10/07/09 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	85.1	%			1	SM2540 G	10/12/09 16:20	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.1	1.3	1	8015B	10/16/09 5:46	jvogel	Q45244
Sample Preparation:			25.3 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	50	49 - 124	
Sample Weight Determination									
Weight 1	6.22	g			1	GRO	10/12/09 0:00	lbrown	
Weight 2	6.30	g			1	GRO	10/12/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.9	0.72	50	8015B	10/16/09 3:06	grappaccioli	Q45223
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	101	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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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

10/23/09

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-14 12'
 Prism Sample ID: 260068
 COC Group: G1009216
 Time Collected: 10/06/09 12:40
 Time Submitted: 10/07/09 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	75.8	%			1	SM2540 G	10/12/09 16:20	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	9.3	1.5	1	8015B	10/16/09 4:00	jvogel	Q45244
Sample Preparation:			24.9 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	50	49 - 124	
Sample Weight Determination									
Weight 1	7.09	g			1	GRO	10/12/09 0:00	lbrown	
Weight 2	7.04	g			1	GRO	10/12/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.6	0.80	50	8015B	10/16/09 4:08	grappaccioli	Q45223
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	120	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

10/23/09

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1
 Sample Matrix: Soil

Client Sample ID: SS-15 12'
 Prism Sample ID: 260069
 COC Group: G1009216
 Time Collected: 10/06/09 12:55
 Time Submitted: 10/07/09 16:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	72.7	%			1	SM2540 G	10/12/09 16:20	mbarber	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	24	mg/kg	9.6	1.5	1	8015B	10/16/09 6:21	lvogel	Q45244
Sample Preparation:			25.2 g	/	1 mL	3545	10/14/09 14:00	aguptill	P25822
					Surrogate	% Recovery	Control Limits		
					o-Terphenyl	64	49 - 124		
<u>Sample Weight Determination</u>									
Weight 1	6.69	g			1	GRO	10/12/09 0:00	lbrown	
Weight 2	6.28	g			1	GRO	10/12/09 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.9	0.84	50	8015B	10/16/09 4:41	grappaccioli	Q45223
					Surrogate	% Recovery	Control Limits		
					aaa-TFT	118	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

Level II QC Report

10/23/2009

N.C. Department of Transportation
 Attn: Peter Pozzo
 c/o Kleinfelder
 313 Gallimore Dairy Rd.
 Greensboro, NC 27409

Project Name: Macon Co.
 Project ID: 376 Dowdle Mt. Rd.
 Project No.: WBS# 40118.1.1

COC Group Number: G1009216
 Date/Time Submitted: 10/7/200 16:30

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

Method Blank								QC Batch ID	
	Result	RL	Control Limit	Units					
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg				Q45223	
Laboratory Control Sample								QC Batch ID	
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
Gasoline Range Organics (GRO)	45.4	50		mg/kg	91	67-116		Q45223	
Matrix Spike								QC Batch ID	
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
260056 Gasoline Range Organics (GRO)	43.6	50		mg/kg	87	57-113		Q45223	
Matrix Spike Duplicate								QC Batch ID	
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	
260056 Gasoline Range Organics (GRO)	42.6	50		mg/kg	85	57-113	2	0 - 23	Q45223

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

Method Blank								QC Batch ID	
	Result	RL	Control Limit	Units					
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg				Q45244	
Laboratory Control Sample								QC Batch ID	
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
Diesel Range Organics (DRO)	81.4	80		mg/kg	102	55-109		Q45244	
Matrix Spike								QC Batch ID	
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
260058 Diesel Range Organics (DRO)	74.7	80		mg/kg	93	50-117		Q45244	
Matrix Spike Duplicate								QC Batch ID	
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	
260058 Diesel Range Organics (DRO)	65.3	80		mg/kg	82	50-117	13	0 - 24	Q45244

#-See Case Narrative



Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/528-6864 • Fax: 704/528-0409

Client Company Name: Kleinfield
Report To/Contact Name: Peter Pozzo
Reporting Address: 3156 Lawrence Drive Rd
Greensboro NC 27405

Phone: 336 668 0093 Fax (Yes) (No):
Email (Yes) (No) Address: Pozzo@Kleinfield.com
EDD Type: PDF Excel Other
Site Location Name: 376 Dowdle Mt Rd
Site Location Physical Address: 376 Dowdle Mt Rd
Franklin NC

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING: DOT
Project Name: 376 Dowdle Mt Rd
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No) (No) (No)
*Please ATTACH any project specific reporting (QC LEVEL I III IV) provisions and/or QC Requirements
Invoice To: PR
Address:

Purchase Order No./Billing Reference: D
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
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES
RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

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

CLIENT 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				
SS-1 8'	10/6/04	8:38	Soil	CG VOA	4	202 400	Methanol	✓		260055
SS-2 12'		9:00						✓		260056
SS-3 4'		9:10						✓		260057
SS-4 12'		9:40						✓		260058
SS-5 8'		10:00						✓		260059
SS-6 4'		10:15						✓		260060
SS-7 8'		10:30						✓		260061
SS-8 8'		10:50						✓		260062
SS-9 12'		11:08						✓		260063
SS-16 12'		11:25						✓		260064

Sampled By (Print Name) Peter Pozzo Affiliation Kleinfield
Upon relinquishing, the 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.

Received By (Signature) Alex Lassiter Date 10-07-04 13:25 Military/Hours
Received By (Signature) [Signature] Date 10/08/04 Military/Hours
Received By (Signature) [Signature] Date 10/18/04 Military/Hours
Additional Comments: NC DOT
WBS# 40118.1.1

Fed Ex UPS Hand-Delivered Prism Field Service Other
 NPDES: NC SC NC SC NC SC NC SC NC SC
 DRINKING WATER: NC SC NC SC NC SC
 SOLID WASTE: NC SC NC SC NC SC
 RCRA: NC SC NC SC
 CERCLA: NC SC NC SC
 LANDFILL: NC SC NC SC
 OTHER: NC SC
 *CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL



Full Service Analytical & Environmental Solutions

448 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/528-6384 • Fax: 704/528-0479

Client Company Name: Kleinfeldt
Report To/Contact Name: Peter Pozzo
Reporting Address: _____

Phone: _____ Fax (Yes) (No): _____
Email (Yes) (No) Email Address: _____
EDD Type: PDF Excel Other
Site Location Name: _____
Site Location Physical Address: 376 Durdle Mill
Franklin, NC

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING:

Project Name: _____
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: _____
Address: _____

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

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				
SS-11 12'	10/6/04	1145	SOIL	CG VOA	4 2oz 4oz	Methanol	DiO CRO		260065
SS-12 12'		1205							260066
SS-13 4'		1220							260067
SS-14 12'		1240							260068
SS-15 12'		1255							260069

Samplers Signature: [Signature] Sampled By (Print Name): Peter Pozzo Affiliation: Kleinfeldt

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): Alex Ross
Relinquished By (Signature): [Signature] Received By (Signature): [Signature]
Relinquished By (Signature): [Signature] Received By (Signature): [Signature]

Prism Laboratory: _____
Date: 10-07-04 Military/Hours: 1330
Date: 10/7/04 Hours: 1415
Date: 10/7/04 Hours: 1630

Additional Comments: _____
PRISM USE ONLY
Site Arrival Time: _____
Site Departure Time: _____
Field Tech Fee: _____
Misc Fee: _____

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 _____

PRISM USE ONLY
SEE REVERSE FOR TERMS & CONDITIONS
ORIGINAL