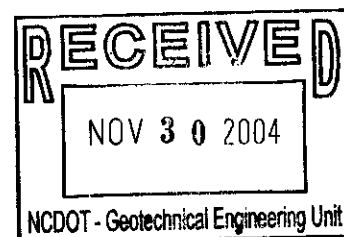


**Soil Contamination Report
Former Gatha Austin Property
NCDOT Parcel #26
7337 NC Hwy. 49
Cabarrus County
Mount Pleasant, North Carolina**

**North Carolina
Department of Transportation**

**H&H Job No. ROW-026
State Project R-2533CA
WBS 34448.1.1
November 24, 2004**



 **Hart & Hickman**
Hart & Hickman, PC
2923 South Tryon Street
Suite 100
Charlotte, NC 28203
704.586.0007
Fax 704.586.0373

**Soil Contamination Report
Residential UST
Former Gatha Austin Property (NCDOT Parcel # 26)
7337 NC Hwy. 49
Cabarrus County
Mount Pleasant, North Carolina
H&H Project ROW-026**

A. Site Identification

DATE OF REPORT: 11-24-04
Facility I.D.: NA UST Incident Number (if known): NA
Site Name: Former Gatha Austin Property (NCDOT Parcel #26)
Site Location: 7337 NC Hwy. 49
Nearest City/Town: Mount Pleasant County: Cabarrus

UST Owner: Gatha Austin Phone: Unknown
Address: Unknown

UST Operator: Same as UST Owner Phone: As Above
Address: As Above

Property Owner: Gatha Austin. Note the North Carolina Department of Transportation has rights to the property under a permanent easement (attn Cyrus Parker 919-250-4088)
Address: 500 North Central, Locust, NC Phone: 704-888-2468

Property Occupant: Vacant Phone: N/A
Address: N/A

Consultant/Contractor: Hart & Hickman, PC (Michael S. Crouch) Phone: 704-586-0007
Address: 2923 South Tryon Street, Suite 100, Charlotte, NC 28203

Release Information

Date Discovered: Impacted soil noted during April 2004 Preliminary Site Assessment and during October 2004 UST removal.

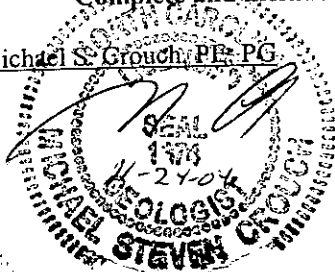
Latitude: 35° 24' 23" N Longitude: 80° 27' 16" W

Estimated Quantity of Release: Unknown
Cause of Release: Historical operation of UST
Source of Release (Piping/UST): UST

Sizes and contents of UST system(s) from which the release occurred): One approximately 1,000-gallon heating oil UST.

Complete and include as Attachments the following items B through G in the order listed.

I. Michael S. Grouch, PE, PG



Professional Engineer/Licensed Geologist (circle one) for (Hart & Hickman, PC), do certify that the information contained in this report is correct and accurate to the best of my knowledge.

B. Site History

The subject site is located at 7337 NC Highway 49 at the northwest corner of the intersection of NC Highway 49 and NC Highway 73 Exit Road, in Mount Pleasant, Cabarrus County, North Carolina (Figure 1). The site is owned by Mr. Gatha Austin. The North Carolina Department of Transportation (DOT) has a right of permanent easement to the property and refers to the property as Parcel #26.

During an initial geophysical assessment of the site in April 2003 by Schnabel Engineering Associates, Inc. (Schnabel), an underground storage tank (UST) was identified located outside and adjacent to the west wall of the site building. According to Mr. Gatha Austin, the UST was an unregulated 550-gallon heating oil tank that was previously used as the heating source for the site building. Mr. Austin also stated the UST was installed approximately 35 to 45 years ago and was abandoned in place by filling with sand. The date of the UST abandonment was not known.

In April 2004, Hart & Hickman, PC (H&H) was contracted by DOT to assess the site for potential impacts in the vicinity of the identified UST and two adjacent above ground storage tanks (ASTs). The findings were incorporated into a Preliminary Site Assessment (PSA) report dated May 13, 2004. Samples from the borings were analyzed for total petroleum hydrocarbons – gasoline range organics (TPH-GRO) by EPA Method 5030, and total petroleum hydrocarbons - diesel range organics (TPH-DRO) by EPA Method 3550 and volatile organic compounds (VOCs) by EPA Method 8260.

Analytical results indicated low levels of select VOCs in the soil sample located north (26-1) and east (26-3) of the UST; however, none exceeded their respective soil-to-groundwater Maximum Soil Contaminant Concentration (MSCC). TPH-GRO was only detected in one sample (26-1) at 5 mg/kg. TPH-DRO was detected in two samples (26-1 and 26-4) at 200 mg/kg and 440 mg/kg, respectively. Based on these results, it was determined that the soils in the vicinity of the UST were impacted with petroleum hydrocarbons.

C. Site Investigation

In October 2004 H&H was contracted by DOT to oversee removal of the UST and impacted soils. The UST removal and excavation activities were conducted by Soil Solutions, Inc. (SSI). Upon

arrival at the site on October 25, 2004 to begin removal activities, H&H noted the site building had been demolished. H&H also observed staining on the ground surface in the area of the UST.

Upon exposing the surface of the UST, it was observed that the UST was larger (1,000-gallon) than the reported 550-gallon, and was not filled with sand, but was filled with liquid, appearing to be primarily water. Prior to removal of the UST, 860 gallons of residual fluid and sludge were removed by using a vacuum truck and transported for proper disposal by SSI. The Certificate of Disposal for the fluid is included in Appendix A.

After removal of the tank fluids, the UST was removed by SSI and visually inspected for evidence of leakage. Several small holes (approximately 1" or less in diameter) were observed near the midpoint of the UST. Based on the location of the UST prior to removal, the holes were located approximately 1.2 m (4 ft) below original ground surface, on the northwest side of the UST. The UST was transported by SSI to Atlantic Scrap and Processing in Winston-Salem, North Carolina for proper disposal. The tank disposal certificate is attached in Appendix B.

Following removal of the UST, soil in the excavation was visually inspected and screened with a photoionization detector (PID). Soil impacted by petroleum hydrocarbons was noted primarily on the west and southern sides of the excavation. Soil removal continued until soils along the base and sidewall of the excavation no longer exhibited indications of petroleum impacts. The final excavation dimensions measured approximately 8.8 m long by 5.5 m wide and 2.4 m deep (29 ft by 18 ft by 8 ft). No ground water was observed in the base of the excavation at conclusion of soil removal activities. Figure 3 indicates the former location of the UST on the site and the approximate excavation limits. The excavated soils (176.63 tons) were transported by SSI to their disposal facility in Winston-Salem, North Carolina. The Certificate of Acceptance for the impacted soil is included in Appendix A.

In accordance with DENR guidance, five confirmatory soil samples (four sidewall and one base) were collected and submitted for analysis of VOCs by EPA Method 5035/8260, Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270, Extractable and Volatile Petroleum Hydrocarbons (EPH/VPH) by Massachusetts Department of Environmental Protection (MADEP) method. Each sidewall sample was collected at a depth of approximately 1.2 m (4 ft). Figure 3 indicates the approximate location of each of the confirmatory soil samples.

The only target analytes detected above their respective laboratory reporting limit were trace levels of acetone, isopropylbenzene, and C19-C36 Aliphatics (EPH). It is suspected that the acetone is a laboratory contaminant and not indicative of site conditions.

In accordance with DENR guidance, the analytical results were compared to the Maximum Soil Contaminant Concentration (MSCC) for risk-based closure. None of the detections exceeded their soil-to-ground water MSCC. Table 2 is a summary of the confirmatory soil sample results and MSCCs. Appendix C includes the individual laboratory data sheets. Following confirmation sampling, the excavation was backfilled and compacted via backhoe equipment, then covered with seed and straw.

In summary, results of the post-excavation confirmation samples indicate no analyte concentrations above Soil-to-Groundwater MSCCs. Based on the lack of impacted soils, no further investigation or remedial action is warranted and H&H requests that DENR issue a No Further Action letter for the UST at the site.

D. Tables

Table 1 – Summary of Confirmation Soil Sampling Analytical Results

E. Figures

Figure 1 – Site Location Map

Figure 2 – Site Layout and Former UST Excavation Area

Figure 3 - UST Excavation Limits and Confirmatory Sample Locations

F. Appendices

Appendix A Fluid and Soil Disposal Documentation

Appendix B Certificate of UST Disposal

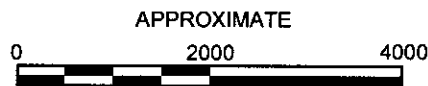
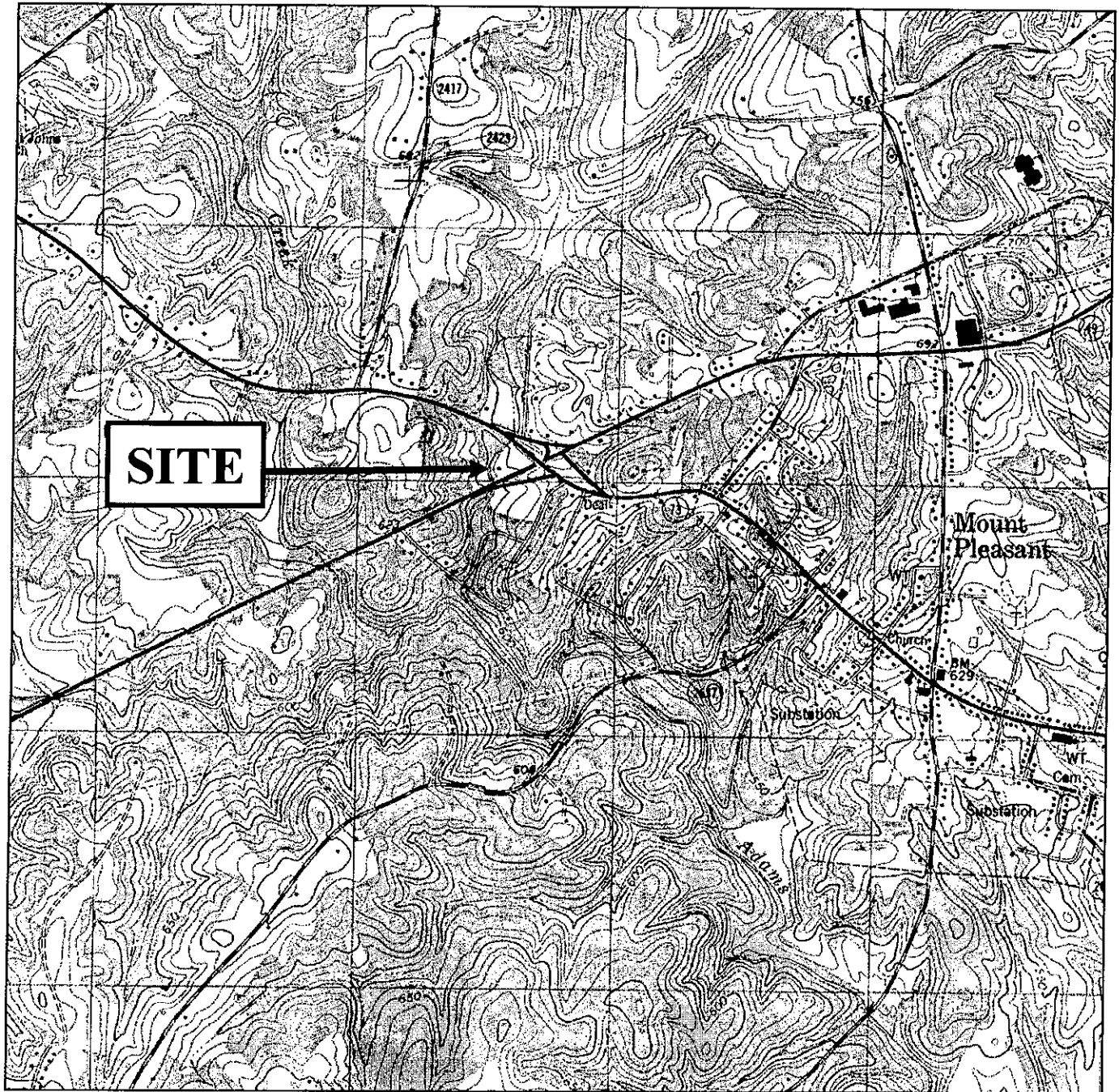
Appendix C Laboratory Data Sheets and Chain of Custody Records

Table 1
 Summary of Confirmation Soil Sampling Analytical Results

Former Gatha Austin Property (Parcel #26)
 Mount Pleasant, North Carolina
 H&H Job No. ROW-026

Sample ID	Excavation Confirmation Samples					North Carolina Target Levels		
	N-Side 4 mg/kg 10/25/2004	E-Side 4 mg/kg 10/25/2004	W-Side 4 mg/kg 10/25/2004	S-Side 4 mg/kg 10/26/2004	Bottom 8 mg/kg 10/26/2004	Commercial MSCC (mg/kg)	Residential MSCC (mg/kg)	Soil to GW MSCC (mg/kg)
Laboratory Parameters (Method)								
VPH/EPH								
VPH C5-C8 Aliphatics	<5.1	<5.5	<4.9	<5.3	<4.9	24,528	939	72
VPH C9-C12 Aliphatics	<2.6	<2.7	<2.4	<2.6	<2.4	NS	NS	NS
EPH C9-C18 Aliphatics	<51	<55	<49	<53	<49	NS	NS	NS
Total C9-C18 Aliphatics	<53.6	<57.7	<51.4	<55.6	<51.4	245,280	9,386	3,255
EPH C19-C36 Aliphatics	<26	<27	<24	78	<24	> 100%	93,860	Immobile
EPH C11-C22 Aromatics	<26	<27	<24	<26	<24	NS	NS	NS
VPH C9-C10 Aromatics	<1.3	<1.4	<1.2	<2.6	<1.2	NS	NS	NS
Total C9-C22 Aromatics	<27.3	<28.4	<25.2	<28.6	<25.2	12,264	469	34
VOCs (#260B/5035)								
Acetone	0.030 ^j	0.025 ^j	0.055 ^j	0.070	0.025 ^j	40,880	1,564	3
Isopropylbenzene	<0.0055	<0.0059	<0.0057	<0.0065	0.0035 ^j	40,880	1,564	2
SVOCs (#270)	BDL	BDL	BDL	BDL	BDL	NS	NS	NS

Notes:
 EPA Method number follows parameter in parenthesis. Only detected constituents indicated except for VPH and EPH fractions. NA = Not Analyzed
 VOCs = Volatile Organic Compounds; SVOCs = Semi-Volatile Organic Compounds; NS = Not Specified; MSCC = Maximum Soil Contaminant Concentration; GW = Ground Water
 BDL = Below Detection Level
 Bold indicates concentration exceeds a MSCC
 North Carolina Target Levels taken from Guidelines for Assessment and Corrective Action effective 7/1/01
^j = Estimated concentration between the method detection limit and the reporting limit.




SCALE IN FEET

U.S.G.S. QUADRANGLE MAP

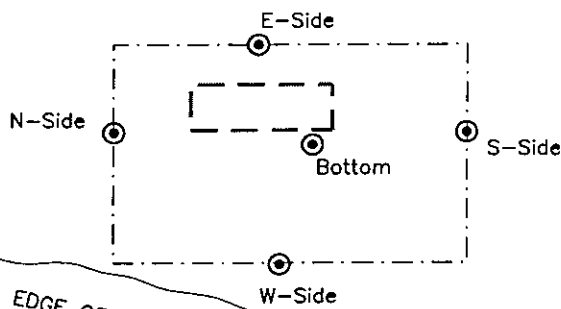
MT. PLEASANT, NC 1980

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	SITE LOCATION MAP		
PROJECT	GATHA AUSTIN PROPERTY (Parcel # 26) MT. PLEASANT, NORTH CAROLINA		
	 Hart & Hickman 2923 South Tryon Street-Suite 100 <small>A PROFESSIONAL CORPORATION</small> Charlotte, North Carolina 28203 <small>704-586-0007 (p) 704-586-0370 (f)</small>		
DATE:	10-27-04	REVISION NO:	0
JOB NO:	ROW-026	FIGURE NO:	1

CONCRETE SLAB OF FORMER BUILDING

APPROXIMATE
TREELINE







EDGE OF EMBANKMENT


SIGN →



APPROXIMATE
0 5 10
SCALE IN METERS

LEGEND

-  UTILITY POLE
-  CONFIRMATORY SAMPLE LOCATION
-  APPROXIMATE LOCATION OF FORMER UST
-  APPROXIMATE LIMITS OF EXCAVATION AREA

TITLE UST EXCAVATION LIMITS AND CONFIRMATORY SAMPLE LOCATIONS	
PROJECT GATHA AUSTIN PROPERTY PARCEL 26 MOUNT PLEASANT, NORTH CAROLINA	
 Hart & Hickman A Professional Corporation	
2923 South Tryon Street Suite 100 Charlotte, North Carolina (704)586-0007 (704)586-0373-fax	
DATE: 10-27-04	REVISION NO. 0
JOB NO: ROW-026	FIGURE NO. 3

Appendix A
Fluid and Soil Disposal Documentation

Hart & Hickman, PC



SOIL SOLUTIONS

CERTIFICATE OF DISPOSAL

Soil Solutions, Inc. does hereby certify that 860 gallons of non-hazardous contaminated water received on 10/25/2004 from:

Generator: NC DOT

Originating at: 7337 NC Highway 49
Mount Pleasant, NC

SSI Waste ID #: 100426

has been disposed of by Soil Solutions, Inc. in a manner approved by the North Carolina Department of Environment and Natural Resources.

Signature

Thomas W. Hammett
Vice President
Soil Solutions, Inc.



SOIL SOLUTIONS

CERTIFICATE OF ACCEPTANCE

Soil Solutions, Inc. does hereby certify that 176.63 tons of non-hazardous contaminated material received on 10/25/2004 and 10/26/2004 from:

Generator: NC DOT

Originating at: 7337 NC Highway 49
Mount Pleasant, NC

SSI Waste ID #: 100426

has been accepted by Soil Solutions, Inc. and will be remediated in their Soil Treatment Facility in Winston-Salem, North Carolina. Soil Solutions, Inc. guarantees the contaminated material will be treated to below regulatory standards established by the North Carolina Department of Environment and Natural Resources for clean soil.

Signature

Thomas W. Hammett
Vice President
Soil Solutions, Inc.

1703 Vargrave Street Winston-Salem, NC 27107

(336) 725-5844 FAX (336) 725-6244

SOIL SOLUTIONS, INC.

1703 Vargrave Street, Winston-Salem, NC 27107

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 027599

GENERATOR INFORMATION

Generator: NCDOT
Site Address: 7337 NC Highway 49
City/State: Mount Pleasant, NC

Phone: 919-250-4088
Contact: Cyrus Parker

MATERIAL DESCRIPTION/QUANTITY/WEIGHT

Gross Weight (lbs): 58,500
Empty Weight (lbs): 21,780
Net Weight (lbs): 36,720

Material: Soil
Contaminant: Heating Oil

Quantity

18.36

Tons Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Soil Solutions Inc.
Truck #: 35102

Phone: 336-725-5844
Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date: 10-25-04

FACILITY INFORMATION

SOIL SOLUTIONS, INC.
1703 Vargrave Street
Winston-Salem, NC 27107

SSI Project #: 100426
Phone: _____
Contact: _____

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date: 10-25-04

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

SOIL SOLUTIONS, INC.

1703 Vargrave Street, Winston-Salem, NC 27107

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 027500

GENERATOR INFORMATION

Generator: NCDOT
Site Address: 7337 NC Highway 49
City/State: Mount Pleasant, NC

Phone: 919-250-4088
Contact: Cyrus Parker

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 85,820 Material: Soil
Empty Weight (lbs): 32,500 Contaminant: Heating Oil
Net Weight (lbs): 53,320

Quantity

26.66

Tons

Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Soil Solutions Inc.
Truck #: 201

Phone: 336-725-5844
Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Jeff Brinkley

Date: 10/26/09

FACILITY INFORMATION

SOIL SOLUTIONS, INC.
1703 Vargrave Street
Winston-Salem, NC 27107

SSI Project #: 100426
Phone: _____
Contact: _____

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Charles

Date: 10/26/09

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

SOIL SOLUTIONS, INC.

1703 Vargrave Street, Winston-Salem, NC 27107

NON-HAZARDOUS MATERIALS MANIFEST

Load # _____

Manifest No. **027499**

GENERATOR INFORMATION

Generator: **NCDOT**

Phone: **919-250-4088**

Site Address: **7337 NC Highway 49**

City/State: **Mount Pleasant, NC**

Contact: **Cyrus Parker**

MATERIAL DESCRIPTION, QUANTITY, WEIGHT

Gross Weight (lbs): **79.380**

Material: **Soil**

Empty Weight (lbs): **32.500**

Contaminant: **Heating Oil**

Net Weight (lbs): **46.880**

Quantity

23.44

Tons

Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: **Soil Solutions Inc.**

Phone: **336-725-5844**

Truck #: **201**

Contact: **Tony Disher**

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: *Jeff Brinkley*

Date: **10-26-04**

FACILITY INFORMATION

SOIL SOLUTIONS, INC.
1703 Vargrave Street
Winston-Salem, NC 27107

SSI Project #: **100426**

Phone: _____

Contact: _____

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: *E. H. ...*

Date: **10/26/04**

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

SOIL SOLUTIONS, INC.

1703 Vargrave Street, Winston-Salem, NC 27107

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. **027501**

GENERATOR INFORMATION

Generator: **NCDOT**
Site Address: **7337 NC Highway 49**
City/State: **Mount Pleasant, NC**

Phone: **919-250-4088**
Contact: **Cyrus Parker**

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): **62,920** Material: **Soil**
Empty Weight (lbs): **32,500** Contaminant: **Heating Oil**
Net Weight (lbs): **30,420**

Quantity

1521

Tons Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: **Soil Solutions Inc.**
Truck #: **Jeff Brinkley 201**

Phone: **336-725-5844**
Contact: **Tony Disher**

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: *Jeff Brinkley*

Date: **10-26-04**

FACILITY INFORMATION

SOIL SOLUTIONS, INC.
1703 Vargrave Street
Winston-Salem, NC 27107

SSI Project #: **100426**
Phone: _____
Contact: _____

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: *E. Parker*

Date: **10/26/04**

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

SOIL SOLUTIONS, INC.

1703 Vargrave Street, Winston-Salem, NC 27107

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. 028582

GENERATOR INFORMATION

Generator: NCDOT

Phone: 919-250-4088

Site Address: 7337 NC Highway 49

City/State: Mount Pleasant, NC

Contact: Cyrus Parker

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): 78,300

Material: Soil

Empty Weight (lbs): 32,500

Contaminant: Heating Oil

Net Weight (lbs): 45,800

Quantity

22.90

Tons Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Soil Solutions Inc.

Phone: 336-725-5844

Truck #: 201

Contact: Tony Disher

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Jill Brindley

Date: 10-26-04

FACILITY INFORMATION

SOIL SOLUTIONS, INC.
1703 Vargrave Street
Winston-Salem, NC 27107

SSI Project #: 100426

Phone: _____

Contact: _____

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: E. Bumpers

Date: 10/26/04

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

SOIL SOLUTIONS, INC.

1703 Vargrave Street, Winston-Salem, NC 27107

NON-HAZARDOUS MATERIALS MANIFEST

Manifest No. **028563**

Load # _____

GENERATOR INFORMATION

Generator: **NCDOT**

Phone: **919-250-4088**

Site Address: **7337 NC Highway 49**

City/State: **Mount Pleasant, NC**

Contact: **Cyrus Parker**

MATERIAL DESCRIPTION/ QUANTITY/ WEIGHT

Gross Weight (lbs): **77240**

Material: **Soil**

Empty Weight (lbs): **33380**

Contaminant: **Heating Oil**

Net Weight (lbs): **43,860**

Quantity

2193

Tons

Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: **Soil Solutions Inc.**

Phone: **336-725-5844**

Truck #: **55203**

Contact: **Tony Disher**

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date: **10/26/04**

SOIL SOLUTIONS, INC.
1703 Vargrave Street
Winston-Salem, NC 27107

SSI Project #: **100426**

Phone: _____

Contact: _____

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date: **10/26/04**

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

SOIL SOLUTIONS, INC.

1703 Vargrave Street, Winston-Salem, NC 27107

NON-HAZARDOUS MATERIALS MANIFEST

Manifest No. 028561

Load #

GENERATOR INFORMATION

Generator: NCDOT
Site Address: 7337 NC Highway 49
City/State: Mount Pleasant, NC

Phone: 010-250-4028
Contact: Cyrus Parker

MATERIAL DESCRIPTION/QUANTITY/WEIGHT

Gross Weight (lbs): 87060
Empty Weight (lbs): 29200
Net Weight (lbs): 57860

Material: Soil
Contaminant: Heating Oil

Quantity

28.93

Tons

Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: Trexler Trucking
Truck #: T-52

Phone: 800-888-2043
Contact: Doug Trexler

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: Kenny Linder

Date: 10/25/04

SOIL SOLUTIONS, INC.
1703 Vargrave Street
Winston-Salem, NC 27107

SSI Project #: 100426
Phone: _____
Contact: _____

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: [Signature]

Date: 10-25-04

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

SOIL SOLUTIONS, INC.

1703 Vargrave Street, Winston-Salem, NC 27107

NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. **028562**

GENERATOR INFORMATION

Generator: **NCDOT**
Site Address: **7337 NC Highway 49**
City/State: **Mount Pleasant, NC**

Phone: **919-250-4088**
Contact: **Cyrus Parker**

MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): **71780**
Empty Weight (lbs): **33380**
Net Weight (lbs): **38400**

Material: **Soil**
Contaminant: **Heating Oil**

Quantity

1920

Tons Drums Pails Sacs Yards Other: _____

TRANSPORTER INFORMATION

Transporter: **Soil Solutions Inc.**
Truck #: **55203**

Phone: **336-725-5844**
Contact: **Tony Disher**

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: *[Signature]*

Date: **10/26/04**

FACILITY INFORMATION

SOIL SOLUTIONS, INC.
1703 Vargrave Street
Winston-Salem, NC 27107

SSI Project #: **100426**
Phone: _____
Contact: _____

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: *[Signature]*

Date: **10/26/04**

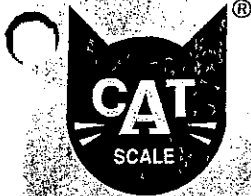
White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

90447355
TICKET NUMBER



**CERTIFIED
AUTOMATED
TRUCK
SCALE**

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

"WEIGH WHAT WE SAY OR WE PAY"®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR
- (2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- (1) Post bond and request a court date.
- (2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE (Toll Free).
- (3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Operations Manager.

The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale.

DATE:	10-25-2004	STEER AXLE	14700	LB
SCALE:	95	DRIVE AXLE	36480	LB
LOCATION:	BILLS TRUCK STOP	TRAILER AXLE	7320	LB
	I-85 EXIT 86	* GROSS WEIGHT	58500	LB
	LINWOOD NC			

100426

2002 SCALE
90447355 LOCATION:
PUBLIC WEIGHMASTER'S
CERTIFICATE OF
WEIGHT & MEASURE

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE
(IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY SOIL SOLUTIONS TRACTOR # SS102 TRAILER # 0

FEE 8.00 WEIGHMASTER OR WEIGHER SIGNATURE *Brent P* FULL WEIGH TICKET # (IF REWEIGH)

WEIGH NUMBER
7355

DRIVER IN TRUCK UNLESS CHECKED HERE:

CUSTOMER COPY

**CERTIFIED
AUTOMATED
TRUCK
SCALE**

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE (Toll Free).
- 3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Operations Manager.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale.

DATE: 10-25-2004

STEER AXLE 11040 lb

DRIVE AXLE 30180 lb

TRAILER AXLE 38160 lb

GROSS WEIGHT 79380 lb

100426

SCALE: 95
LOCATION: BILLS TRUCK STOP
I-85 EXIT 86
LINWOOD NC

PUBLIC WEIGHMASTER'S
CERTIFICATE OF
WEIGHT & MEASURE

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE
(IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

SOIL SOLUTIONS

55402

TRAILER # 0

COMPANY

TRACTOR #

TRAILER #

FEE \$8.00

WEIGHMASTER OR
WEIGHER SIGNATURE

BRENT P

FULL WEIGH
TICKET #
(IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE: _____

© 1998 CAT Scale Company #04704

WEIGH NUMBER
7356

CUSTOMER COPY

**CERTIFIED
AUTOMATED
TRUCK
SCALE**

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE (Toll Free).
- 3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Operations Manager.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale.

DATE: 10-26-2004

STEER AXLE 10160 lb

DRIVE AXLE 35840 lb

TRAILER AXLE 39820 lb

GROSS WEIGHT 85820 lb

100426

SCALE: 95
LOCATION: BILLS TRUCK STOP
I-85 EXIT 86
LINWOOD NC

PUBLIC WEIGHMASTER'S
CERTIFICATE OF
WEIGHT & MEASURE

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE
(IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

SOIL SOLUTIONS

201

TRAILER # 0

COMPANY

TRACTOR #

TRAILER #

FEE \$8.00

WEIGHMASTER OR
WEIGHER SIGNATURE

GARY HILLIARD

FULL WEIGH
TICKET #
(IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE: _____

© 1998 CAT Scale Company #04704

WEIGH NUMBER
7397

CUSTOMER COPY

No. 642

CRAP AND PROCESSING

3415 Glenn Avenue
ston-Salem, NC 27105
(336) 725-8333

A Selection

504 PJ

ire

NORTH CAROLINA
PUBLIC WEIGHTMASTERS
LICENSE EXPIRES JUNE 30, 2005
JACK A. TORREN 25777

100486

12:30 PM 10-26-04

078300

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE (Toll Free)
- 3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Operations Manager.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale.

DATE: 10-26-2004

SCALE: 95

LOCATION: BILLS TRUCK STOP
1-05 EXIT 86
LINWOOD NC

STER AXLE: 9380 1b

DRIVE AXLE: 27080 1b

TRAILER AXLE: 26460 1b

GROSS WEIGHT: 62920 1b

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

WEIGHTMASTERS CERTIFICATE OF WEIGHT MEASURE

WEIGHTMASTERS SIGNATURE: *Jack A. Torren*
TICKET # 078300

SCALE: 95

LOCATION: BILLS TRUCK STOP

1-05 EXIT 86

LINWOOD NC

STER AXLE: 9380 1b

DRIVE AXLE: 27080 1b

TRAILER AXLE: 26460 1b

GROSS WEIGHT: 62920 1b

SCALE: 95

LOCATION: BILLS TRUCK STOP

1-05 EXIT 86

LINWOOD NC

STER AXLE: 9380 1b

DRIVE AXLE: 27080 1b

TRAILER AXLE: 26460 1b

GROSS WEIGHT: 62920 1b

SCALE: 95

LOCATION: BILLS TRUCK STOP

1-05 EXIT 86

LINWOOD NC

STER AXLE: 9380 1b

DRIVE AXLE: 27080 1b

TRAILER AXLE: 26460 1b

GROSS WEIGHT: 62920 1b

SCALE: 95

LOCATION: BILLS TRUCK STOP

1-05 EXIT 86

LINWOOD NC

STER AXLE: 9380 1b

DRIVE AXLE: 27080 1b

TRAILER AXLE: 26460 1b

GROSS WEIGHT: 62920 1b

SCALE: 95

LOCATION: BILLS TRUCK STOP

1-05 EXIT 86

LINWOOD NC

STER AXLE: 9380 1b

DRIVE AXLE: 27080 1b

TRAILER AXLE: 26460 1b

GROSS WEIGHT: 62920 1b

SCALE: 95

LOCATION: BILLS TRUCK STOP

1-05 EXIT 86

LINWOOD NC

STER AXLE: 9380 1b

DRIVE AXLE: 27080 1b

TRAILER AXLE: 26460 1b

GROSS WEIGHT: 62920 1b

SCALE: 95

LOCATION: BILLS TRUCK STOP

1-05 EXIT 86

LINWOOD NC

STER AXLE: 9380 1b

DRIVE AXLE: 27080 1b

TRAILER AXLE: 26460 1b

GROSS WEIGHT: 62920 1b

SCALE: 95

LOCATION: BILLS TRUCK STOP

1-05 EXIT 86

LINWOOD NC

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GROSS WEIGHT: 62920 1b

SCALE: 95

LOCATION: BILLS TRUCK STOP

1-05 EXIT 86

LINWOOD NC

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DRIVE AXLE: 27080 1b

TRAILER AXLE: 26460 1b

GROSS WEIGHT: 62920 1b

SCALE: 95

LOCATION: BILLS TRUCK STOP

1-05 EXIT 86

LINWOOD NC

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SCALE: 95

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TRAILER AXLE: 26460 1b

GROSS WEIGHT: 62920 1b

SCALE: 95

LOCATION: BILLS TRUCK STOP

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LINWOOD NC

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LOCATION: BILLS TRUCK STOP

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LOCATION: BILLS TRUCK STOP

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LOCATION: BILLS TRUCK STOP

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LINWOOD NC

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TRAILER AXLE: 26460 1b

GROSS WEIGHT: 62920 1b

SCALE: 95

LOCATION: BILLS TRUCK STOP

1-05 EXIT 86

LINWOOD NC

Appendix B
Certificate of UST Disposal

Hart & Hickman, PC



SOIL SOLUTIONS

TANK DISPOSAL CERTIFICATE

Tank Owner: Gatha Austin

Site Address: 7337 NC Highway 49
Mount Pleasant, NC

Tank Description:

<u>Tank Number</u>	<u>Size of Tank</u>	<u>Contents</u>
1	1,000 Gallons	#2 Fuel Oil

Transporter: Soil Solutions, Inc.

SSI Project #: 100426

Disposal Certification:

Soil Solutions, Inc. does hereby certify that the above named storage tank was transported to Atlantic Scrap and Processing in Winston-Salem, NC for proper disposal and recycling.

Signature

Thomas W. Hammett
Vice President
Soil Solutions, Inc.

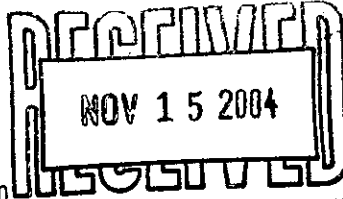
Appendix C
Laboratory Data Sheets and
Chain-of-Custody Records

Hart & Hickman, PC

Case Narrative

Date: 11/10/04

Company: NC Dept. of Transportation
c/o Hart & Hickman
Contact: Mike Crouch
Address: 2923 S. Tryon St. Ste 100
Charlotte, NC 28203



PRISM
LABORATORIES, INC.

Client Project ID: ROW-026
Prism COC Group No: G1004456

The attached Laboratory Report contains the analytical results for the project identified above and includes Quality Control Data and a Chain-of-Custody copy.

Data qualifiers are flagged individually on each sample. A Key Reference for the data qualifiers appears at the bottom of this page.

The following recoveries were outside of the laboratory control limits:

Prism Sample ID 102049: Method VPH - Recovery above the control limits. No VPH detected in this range. No further action was taken.

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

Data Reviewed by: Paula A. Gilleland

Signature: Paula A. Gilleland

Review Date: 11/10/04

Project Manager: Angela D. Overcash

Signature: Paula A. Gilleland for Angela Overcash

Approval Date: 11/10/04

Data Qualifier Key Reference:

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

Note: This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road, P. O. Box 240543, Charlotte, NC 28224-0403
Phone: 704/529-6364 Toll Free: 800/529-6364 Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735
 FL Certification No. E87519

Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: N-SIDE
 Prism Sample ID: 102049
 COC Group: G1004456
 Time Collected: 10/25/04 16:30
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	77.7	%			1	SM2540 G	10/28/04 10:10	dobryan	
Sample Weight Determination									
Weight Bisulfate 1	5.81	g			1	5035	10/27/04 0:00	lbrown	
Weight Bisulfate 2	6.19	g			1	5035	10/27/04 0:00	lbrown	
Weight Methanol	5.51	g			1	5035	10/27/04 0:00	lbrown	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg	0.0055	0.00091	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0055	0.00068	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,1,2-Trichloroethane	BRL	mg/kg	0.0055	0.00053	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,1-Dichloroethane	BRL	mg/kg	0.0055	0.0011	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,1-Dichloroethene	BRL	mg/kg	0.0055	0.00082	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,1-Dichloropropene	BRL	mg/kg	0.0055	0.00095	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0055	0.0039	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,2,3-Trichloropropane	BRL	mg/kg	0.0055	0.00029	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0055	0.0038	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0055	0.0040	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0055	0.00055	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,2-Dichlorobenzene	BRL	mg/kg	0.0055	0.0027	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,2-Dichloroethane	BRL	mg/kg	0.0055	0.0013	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,2-Dichloropropane	BRL	mg/kg	0.0055	0.0012	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0055	0.0041	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,3-Dichlorobenzene	BRL	mg/kg	0.0055	0.0032	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,3-Dichloropropane	BRL	mg/kg	0.0055	0.00099	1	8260B	10/29/04 17:26	kcampigotto	Q00500
1,4-Dichlorobenzene	BRL	mg/kg	0.0055	0.0025	1	8260B	10/29/04 17:26	kcampigotto	Q00500
2,2-Dichloropropane	BRL	mg/kg	0.0055	0.0010	1	8260B	10/29/04 17:26	kcampigotto	Q00500
2-Chlorotoluene	BRL	mg/kg	0.0055	0.0028	1	8260B	10/29/04 17:26	kcampigotto	Q00500



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735
 FL Certification No. E87519

Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: N-SIDE
 Prism Sample ID: 102049
 COC Group: G1004456
 Time Collected: 10/25/04 16:30
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.055	0.0007	1	8260B	10/29/04 17:26	kcampigotto	Q00500
4-Chlorotoluene	BRL	mg/kg	0.0055	0.0029	1	8260B	10/29/04 17:26	kcampigotto	Q00500
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.055	0.0010	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Acetone	0.030 J	mg/kg	0.055	0.0056	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Benzene	BRL	mg/kg	0.0033	0.0011	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Bromobenzene	BRL	mg/kg	0.0055	0.00079	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Bromochloromethane	BRL	mg/kg	0.0055	0.00091	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Bromodichloromethane	BRL	mg/kg	0.0055	0.00069	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Bromoform	BRL	mg/kg	0.0055	0.0009	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Bromomethane	BRL	mg/kg	0.011	0.00087	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Carbon tetrachloride	BRL	mg/kg	0.0055	0.00085	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Chlorobenzene	BRL	mg/kg	0.0055	0.00095	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Chlorodibromomethane	BRL	mg/kg	0.0055	0.0011	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Chloroethane	BRL	mg/kg	0.011	0.0013	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Chloroform	BRL	mg/kg	0.0055	0.00069	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Chloromethane	BRL	mg/kg	0.0055	0.00054	1	8260B	10/29/04 17:26	kcampigotto	Q00500
cis-1,2-Dichloroethene	BRL	mg/kg	0.0055	0.00096	1	8260B	10/29/04 17:26	kcampigotto	Q00500
cis-1,3-Dichloropropene	BRL	mg/kg	0.0055	0.0012	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Dichlorodifluoromethane	BRL	mg/kg	0.0055	0.0007	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Ethylbenzene	BRL	mg/kg	0.0055	0.0021	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Isopropyl ether (IPE)	BRL	mg/kg	0.0055	0.0011	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Isopropylbenzene	BRL	mg/kg	0.0055	0.0037	1	8260B	10/29/04 17:26	kcampigotto	Q00500
m,p-Xylenes	BRL	mg/kg	0.011	0.0045	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.11	0.0021	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.011	0.00065	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Methylene chloride	BRL	mg/kg	0.0055	0.0013	1	8260B	10/29/04 17:26	kcampigotto	Q00500
n-Butylbenzene	BRL	mg/kg	0.0055	0.0051	1	8260B	10/29/04 17:26	kcampigotto	Q00500
n-Propylbenzene	BRL	mg/kg	0.0055	0.00043	1	8260B	10/29/04 17:26	kcampigotto	Q00500



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735
 FL Certification No. E87519

Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

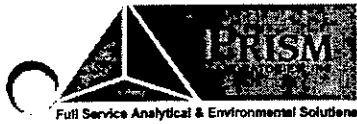
Client Sample ID: N-SIDE
 Prism Sample ID: 102049
 COC Group: G1004456
 Time Collected: 10/25/04 16:30
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Naphthalene	BRL	mg/kg	0.011	0.0022	1	8260B	10/29/04 17:26	kcampigotto	Q00500
o-Xylene	BRL	mg/kg	0.0055	0.0018	1	8260B	10/29/04 17:26	kcampigotto	Q00500
p-Isopropyltoluene	BRL	mg/kg	0.0055	0.0050	1	8260B	10/29/04 17:26	kcampigotto	Q00500
sec-Butylbenzene	BRL	mg/kg	0.0055	0.0053	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Styrene	BRL	mg/kg	0.0055	0.0013	1	8260B	10/29/04 17:26	kcampigotto	Q00500
tert-Butylbenzene	BRL	mg/kg	0.0055	0.0051	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Tetrachloroethene	BRL	mg/kg	0.0055	0.0021	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Toluene	BRL	mg/kg	0.0055	0.0011	1	8260B	10/29/04 17:26	kcampigotto	Q00500
trans-1,2-Dichloroethene	BRL	mg/kg	0.0055	0.0010	1	8260B	10/29/04 17:26	kcampigotto	Q00500
trans-1,3-Dichloropropene	BRL	mg/kg	0.0055	0.0012	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Trichloroethene	BRL	mg/kg	0.0055	0.0011	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Trichlorofluoromethane	BRL	mg/kg	0.0055	0.00096	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Vinyl acetate	BRL	mg/kg	0.028	0.00075	1	8260B	10/29/04 17:26	kcampigotto	Q00500
Vinyl chloride	BRL	mg/kg	0.0055	0.00068	1	8260B	10/29/04 17:26	kcampigotto	Q00500

Surrogate	% Recovery	Control Limits
Toluene-d8	98	81 - 128
Dibromofluoromethane	123	67 - 143
Bromofluorobenzene	108	77 - 128

Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	mg/kg	0.43	0.072	1	8270C	11/01/04 22:18	bpurser	Q00551
1,2-Dichlorobenzene	BRL	mg/kg	0.43	0.059	1	8270C	11/01/04 22:18	bpurser	Q00551
1,3-Dichlorobenzene	BRL	mg/kg	0.43	0.044	1	8270C	11/01/04 22:18	bpurser	Q00551
1,4-Dichlorobenzene	BRL	mg/kg	0.43	0.035	1	8270C	11/01/04 22:18	bpurser	Q00551
2,4,6-Trichlorophenol	BRL	mg/kg	0.43	0.092	1	8270C	11/01/04 22:18	bpurser	Q00551
2,4-Dichlorophenol	BRL	mg/kg	0.43	0.089	1	8270C	11/01/04 22:18	bpurser	Q00551
2,4-Dimethylphenol	BRL	mg/kg	0.43	0.084	1	8270C	11/01/04 22:18	bpurser	Q00551
2,4-Dinitrophenol	BRL	mg/kg	2.2	0.11	1	8270C	11/01/04 22:18	bpurser	Q00551



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Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: N-SIDE
 Prism Sample ID: 102049
 COC Group: G1004456
 Time Collected: 10/25/04 16:30
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,4-Dinitrotoluene	BRL	mg/kg	0.43	0.067	1	8270C	11/01/04 22:18	bpurser	Q00551
2,6-Dinitrotoluene	BRL	mg/kg	0.43	0.051	1	8270C	11/01/04 22:18	bpurser	Q00551
2-Chloronaphthalene	BRL	mg/kg	0.43	0.071	1	8270C	11/01/04 22:18	bpurser	Q00551
2-Chlorophenol	BRL	mg/kg	0.43	0.043	1	8270C	11/01/04 22:18	bpurser	Q00551
2-Methylnaphthalene	BRL	mg/kg	0.43	0.073	1	8270C	11/01/04 22:18	bpurser	Q00551
2-Methylphenol	BRL	mg/kg	0.43	0.069	1	8270C	11/01/04 22:18	bpurser	Q00551
2-Nitrophenol	BRL	mg/kg	0.43	0.055	1	8270C	11/01/04 22:18	bpurser	Q00551
3&4-Methylphenol	BRL	mg/kg	0.42	0.067	1	8270C	11/01/04 22:18	bpurser	Q00551
3,3'-Dichlorobenzidine	BRL	mg/kg	0.85	0.14	1	8270C	11/01/04 22:18	bpurser	Q00551
4,6-Dinitro-2-methylphenol	BRL	mg/kg	2.2	0.097	1	8270C	11/01/04 22:18	bpurser	Q00551
4-Bromophenylphenylether	BRL	mg/kg	0.43	0.072	1	8270C	11/01/04 22:18	bpurser	Q00551
4-Chloro-3-methylphenol	BRL	mg/kg	0.86	0.081	1	8270C	11/01/04 22:18	bpurser	Q00551
4-Chloroaniline	BRL	mg/kg	0.43	0.096	1	8270C	11/01/04 22:18	bpurser	Q00551
4-Chlorophenylphenylether	BRL	mg/kg	0.43	0.065	1	8270C	11/01/04 22:18	bpurser	Q00551
4-Nitrophenol	BRL	mg/kg	2.2	0.11	1	8270C	11/01/04 22:18	bpurser	Q00551
Acenaphthene	BRL	mg/kg	0.43	0.082	1	8270C	11/01/04 22:18	bpurser	Q00551
Acenaphthylene	BRL	mg/kg	0.43	0.081	1	8270C	11/01/04 22:18	bpurser	Q00551
Anthracene	BRL	mg/kg	0.43	0.052	1	8270C	11/01/04 22:18	bpurser	Q00551
Azobenzene	BRL	mg/kg	2.2	0.22	1	8270C	11/01/04 22:18	bpurser	Q00551
Benzo(a)anthracene	BRL	mg/kg	0.43	0.085	1	8270C	11/01/04 22:18	bpurser	Q00551
Benzo(a)pyrene	BRL	mg/kg	0.43	0.043	1	8270C	11/01/04 22:18	bpurser	Q00551
Benzo(b)fluoranthene	BRL	mg/kg	0.43	0.058	1	8270C	11/01/04 22:18	bpurser	Q00551
Benzo(g,h,i)perylene	BRL	mg/kg	0.43	0.099	1	8270C	11/01/04 22:18	bpurser	Q00551
Benzo(k)fluoranthene	BRL	mg/kg	0.43	0.051	1	8270C	11/01/04 22:18	bpurser	Q00551
Benzoic acid	BRL	mg/kg	2.2	0.18	1	8270C	11/01/04 22:18	bpurser	Q00551
Benzyl alcohol	BRL	mg/kg	0.86	0.071	1	8270C	11/01/04 22:18	bpurser	Q00551
Bis(2-chloroethoxy)methane	BRL	mg/kg	0.43	0.082	1	8270C	11/01/04 22:18	bpurser	Q00551
Bis(2-chloroethyl)ether	BRL	mg/kg	0.43	0.030	1	8270C	11/01/04 22:18	bpurser	Q00551



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Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: N-SIDE
 Prism Sample ID: 102049
 COC Group: G1004456
 Time Collected: 10/25/04 16:30
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	mg/kg	0.43	0.060	1	8270C	11/01/04 22:18	bpurser	Q00551
Bis(2-ethylhexyl)phthalate	BRL	mg/kg	0.43	0.047	1	8270C	11/01/04 22:18	bpurser	Q00551
Butylbenzylphthalate	BRL	mg/kg	0.43	0.044	1	8270C	11/01/04 22:18	bpurser	Q00551
Chrysene	BRL	mg/kg	0.43	0.081	1	8270C	11/01/04 22:18	bpurser	Q00551
Di-n-butylphthalate	BRL	mg/kg	0.43	0.059	1	8270C	11/01/04 22:18	bpurser	Q00551
Di-n-octylphthalate	BRL	mg/kg	0.43	0.075	1	8270C	11/01/04 22:18	bpurser	Q00551
Dibenzo(a,h)anthracene	BRL	mg/kg	0.43	0.10	1	8270C	11/01/04 22:18	bpurser	Q00551
Dibenzofuran	BRL	mg/kg	0.43	0.080	1	8270C	11/01/04 22:18	bpurser	Q00551
Diethylphthalate	BRL	mg/kg	0.43	0.043	1	8270C	11/01/04 22:18	bpurser	Q00551
Dimethylphthalate	BRL	mg/kg	0.43	0.059	1	8270C	11/01/04 22:18	bpurser	Q00551
Fluoranthene	BRL	mg/kg	0.43	0.052	1	8270C	11/01/04 22:18	bpurser	Q00551
Fluorene	BRL	mg/kg	0.43	0.081	1	8270C	11/01/04 22:18	bpurser	Q00551
Hexachlorobenzene	BRL	mg/kg	0.43	0.063	1	8270C	11/01/04 22:18	bpurser	Q00551
Hexachlorobutadiene	BRL	mg/kg	0.43	0.056	1	8270C	11/01/04 22:18	bpurser	Q00551
Hexachlorocyclopentadiene	BRL	mg/kg	0.43	0.099	1	8270C	11/01/04 22:18	bpurser	Q00551
Hexachloroethane	BRL	mg/kg	0.43	0.058	1	8270C	11/01/04 22:18	bpurser	Q00551
Indeno(1,2,3-cd)pyrene	BRL	mg/kg	0.43	0.11	1	8270C	11/01/04 22:18	bpurser	Q00551
Isophorone	BRL	mg/kg	0.43	0.080	1	8270C	11/01/04 22:18	bpurser	Q00551
N-Nitrosodi-n-propylamine	BRL	mg/kg	0.43	0.079	1	8270C	11/01/04 22:18	bpurser	Q00551
N-Nitrosodiphenylamine	BRL	mg/kg	0.43	0.063	1	8270C	11/01/04 22:18	bpurser	Q00551
Naphthalene	BRL	mg/kg	0.43	0.060	1	8270C	11/01/04 22:18	bpurser	Q00551
Nitrobenzene	BRL	mg/kg	0.43	0.079	1	8270C	11/01/04 22:18	bpurser	Q00551
Pentachlorophenol	BRL	mg/kg	2.2	0.056	1	8270C	11/01/04 22:18	bpurser	Q00551
Phenanthrene	BRL	mg/kg	0.43	0.048	1	8270C	11/01/04 22:18	bpurser	Q00551
Phenol	BRL	mg/kg	0.43	0.052	1	8270C	11/01/04 22:18	bpurser	Q00551
Pyrene	BRL	mg/kg	0.43	0.034	1	8270C	11/01/04 22:18	bpurser	Q00551



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Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: N-SIDE
 Prism Sample ID: 102049
 COC Group: G1004456
 Time Collected: 10/25/04 16:30
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:				29.5 g /	1 mL	3550B	11/01/04 9:15	dpope	P11055

Surrogate	% Recovery	Control Limits
Terphenyl-d14	84	41 - 136
Phenol-d5	68	13 - 95
Nitrobenzene-d5	70	14 - 103
2-Fluorophenol	64	14 - 89
2-Fluorobiphenyl	76	21 - 108
2,4,6-Tribromophenol	73	25 - 123

Extractable Petroleum Hydrocarbons by GC-FID

C11-C22 Aromatics	BRL	mg/kg	26	9.0	1	MADEP EPH	10/31/04 1:33	grappaccioli	Q00582
C19-C36 Aliphatics	BRL	mg/kg	26	3.9	1	MADEP EPH	10/31/04 1:33	grappaccioli	Q00582
C9-C18 Aliphatics	BRL	mg/kg	51	7.7	1	MADEP EPH	10/31/04 1:33	grappaccioli	Q00582

Sample Preparation: 9.72 g / 2 mL EPH 10/28/04 8:00 dpope P11039

Surrogate	% Recovery	Control Limits
o-Terphenyl	119	40 - 140
2-Fluorobiphenyl	137	40 - 140
2-Bromonaphthalene	111	40 - 140
1-Chloro-octadecane	58	40 - 140

Volatile Petroleum Hydrocarbons by GC-PID/FID

C5-C8 Aliphatics	BRL	mg/kg	5.1	1.8	1	MADEP VPH	11/09/04 9:06	erussell	Q00586
C9-C10 Aromatics	BRL	mg/kg	1.3	0.51	1	MADEP VPH	11/09/04 9:06	erussell	Q00586
C9-C12 Aliphatics	BRL	mg/kg	2.6	1.8	1	MADEP VPH	11/09/04 9:06	erussell	Q00586



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Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: N-SIDE
 Prism Sample ID: 102049
 COC Group: G1004456
 Time Collected: 10/25/04 16:30
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Surrogate	% Recovery	Control Limits
2,5-Dibromotoluene-PID	131 #	70 - 130
2,5-Dibromotoluene-FID	73	70 - 130

Sample Weight Determination

Weight 1	15.85	g	1	MADEP VPH	10/27/04 0:00	lbrown
Weight 2	18.02	g	1	MADEP VPH	10/27/04 0:00	lbrown

Sample Comment(s):

All results are reported on a dry-weight basis
 BRL = Below Reporting Limit
 J = Estimated value between the Reporting Limit and the MDL

Angela D. Overcash, V.P. Laboratory Services



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 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: W-SIDE
 Prism Sample ID: 102050
 COC Group: G1004456
 Time Collected: 10/25/04 17:25
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	82.1	%			1	SM2540 G	10/28/04 10:10	dobryan	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	5.36	g			1	5035	10/27/04 0:00	lbrown	
Weight Bisulfate 2	5.88	g			1	5035	10/27/04 0:00	lbrown	
Weight Methanol	5.78	g			1	5035	10/27/04 0:00	lbrown	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0057	0.00093	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0057	0.00069	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,1,2-Trichloroethane	BRL	mg/kg	0.0057	0.00055	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,1-Dichloroethane	BRL	mg/kg	0.0057	0.0011	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,1-Dichloroethene	BRL	mg/kg	0.0057	0.00084	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,1-Dichloropropene	BRL	mg/kg	0.0057	0.00098	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0057	0.0040	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,2,3-Trichloropropane	BRL	mg/kg	0.0057	0.0003	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0057	0.0039	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0057	0.0041	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0057	0.00057	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,2-Dichlorobenzene	BRL	mg/kg	0.0057	0.0027	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,2-Dichloroethane	BRL	mg/kg	0.0057	0.0014	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,2-Dichloropropane	BRL	mg/kg	0.0057	0.0012	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0057	0.0042	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,3-Dichlorobenzene	BRL	mg/kg	0.0057	0.0033	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,3-Dichloropropane	BRL	mg/kg	0.0057	0.0010	1	8260B	10/29/04 18:10	kcampigotto	Q00500
1,4-Dichlorobenzene	BRL	mg/kg	0.0057	0.0026	1	8260B	10/29/04 18:10	kcampigotto	Q00500
2,2-Dichloropropane	BRL	mg/kg	0.0057	0.0010	1	8260B	10/29/04 18:10	kcampigotto	Q00500
2-Chlorotoluene	BRL	mg/kg	0.0057	0.0028	1	8260B	10/29/04 18:10	kcampigotto	Q00500



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 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: W-SIDE
 Prism Sample ID: 102050
 COC Group: G1004456
 Time Collected: 10/25/04 17:25
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.057	0.00072	1	8260B	10/29/04 18:10	kcampigotto	Q00500
4-Chlorotoluene	BRL	mg/kg	0.0057	0.0030	1	8260B	10/29/04 18:10	kcampigotto	Q00500
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.057	0.0010	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Acetone	0.055 J	mg/kg	0.057	0.0058	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Benzene	BRL	mg/kg	0.0034	0.0011	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Bromobenzene	BRL	mg/kg	0.0057	0.00081	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Bromochloromethane	BRL	mg/kg	0.0057	0.00093	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Bromodichloromethane	BRL	mg/kg	0.0057	0.0007	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Bromoform	BRL	mg/kg	0.0057	0.00092	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Bromomethane	BRL	mg/kg	0.011	0.0009	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Carbon tetrachloride	BRL	mg/kg	0.0057	0.00087	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Chlorobenzene	BRL	mg/kg	0.0057	0.00098	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Chlorodibromomethane	BRL	mg/kg	0.0057	0.0011	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Chloroethane	BRL	mg/kg	0.011	0.0014	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Chloroform	BRL	mg/kg	0.0057	0.0007	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Chloromethane	BRL	mg/kg	0.0057	0.00056	1	8260B	10/29/04 18:10	kcampigotto	Q00500
cis-1,2-Dichloroethene	BRL	mg/kg	0.0057	0.00099	1	8260B	10/29/04 18:10	kcampigotto	Q00500
cis-1,3-Dichloropropene	BRL	mg/kg	0.0057	0.0012	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Dichlorodifluoromethane	BRL	mg/kg	0.0057	0.00072	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Ethylbenzene	BRL	mg/kg	0.0057	0.0022	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Isopropyl ether (IPE)	BRL	mg/kg	0.0057	0.0011	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Isopropylbenzene	BRL	mg/kg	0.0057	0.0037	1	8260B	10/29/04 18:10	kcampigotto	Q00500
m,p-Xylenes	BRL	mg/kg	0.011	0.0047	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.11	0.0022	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.011	0.00067	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Methylene chloride	BRL	mg/kg	0.0057	0.0014	1	8260B	10/29/04 18:10	kcampigotto	Q00500
n-Butylbenzene	BRL	mg/kg	0.0057	0.0052	1	8260B	10/29/04 18:10	kcampigotto	Q00500
n-Propylbenzene	BRL	mg/kg	0.0057	0.00044	1	8260B	10/29/04 18:10	kcampigotto	Q00500



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Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: W-SIDE
 Prism Sample ID: 102050
 COC Group: G1004456
 Time Collected: 10/25/04 17:25
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Naphthalene	BRL	mg/kg	0.011	0.0023	1	8260B	10/29/04 18:10	kcampigotto	Q00500
o-Xylene	BRL	mg/kg	0.0057	0.0018	1	8260B	10/29/04 18:10	kcampigotto	Q00500
p-Isopropyltoluene	BRL	mg/kg	0.0057	0.0051	1	8260B	10/29/04 18:10	kcampigotto	Q00500
sec-Butylbenzene	BRL	mg/kg	0.0057	0.0055	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Styrene	BRL	mg/kg	0.0057	0.0014	1	8260B	10/29/04 18:10	kcampigotto	Q00500
tert-Butylbenzene	BRL	mg/kg	0.0057	0.0052	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Tetrachloroethene	BRL	mg/kg	0.0057	0.0022	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Toluene	BRL	mg/kg	0.0057	0.0011	1	8260B	10/29/04 18:10	kcampigotto	Q00500
trans-1,2-Dichloroethene	BRL	mg/kg	0.0057	0.0011	1	8260B	10/29/04 18:10	kcampigotto	Q00500
trans-1,3-Dichloropropene	BRL	mg/kg	0.0057	0.0012	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Trichloroethene	BRL	mg/kg	0.0057	0.0011	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Trichlorofluoromethane	BRL	mg/kg	0.0057	0.00099	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Vinyl acetate	BRL	mg/kg	0.028	0.00077	1	8260B	10/29/04 18:10	kcampigotto	Q00500
Vinyl chloride	BRL	mg/kg	0.0057	0.00069	1	8260B	10/29/04 18:10	kcampigotto	Q00500

Surrogate	% Recovery	Control Limits
Toluene-d8	94	81 - 128
Dibromofluoromethane	121	67 - 143
Bromofluorobenzene	105	77 - 128

Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	mg/kg	0.40	0.067	1	8270C	11/03/04 12:33	bpurser	Q00551
1,2-Dichlorobenzene	BRL	mg/kg	0.40	0.055	1	8270C	11/03/04 12:33	bpurser	Q00551
1,3-Dichlorobenzene	BRL	mg/kg	0.40	0.041	1	8270C	11/03/04 12:33	bpurser	Q00551
1,4-Dichlorobenzene	BRL	mg/kg	0.40	0.033	1	8270C	11/03/04 12:33	bpurser	Q00551
2,4,6-Trichlorophenol	BRL	mg/kg	0.40	0.085	1	8270C	11/03/04 12:33	bpurser	Q00551
2,4-Dichlorophenol	BRL	mg/kg	0.40	0.082	1	8270C	11/03/04 12:33	bpurser	Q00551
2,4-Dimethylphenol	BRL	mg/kg	0.40	0.078	1	8270C	11/03/04 12:33	bpurser	Q00551
2,4-Dinitrophenol	BRL	mg/kg	2.0	0.099	1	8270C	11/03/04 12:33	bpurser	Q00551



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 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: W-SIDE
 Prism Sample ID: 102050
 COC Group: G1004456
 Time Collected: 10/25/04 17:25
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,4-Dinitrotoluene	BRL	mg/kg	0.40	0.062	1	8270C	11/03/04 12:33	bpurser	Q00551
2,6-Dinitrotoluene	BRL	mg/kg	0.40	0.047	1	8270C	11/03/04 12:33	bpurser	Q00551
2-Chloronaphthalene	BRL	mg/kg	0.40	0.065	1	8270C	11/03/04 12:33	bpurser	Q00551
2-Chlorophenol	BRL	mg/kg	0.40	0.040	1	8270C	11/03/04 12:33	bpurser	Q00551
2-Methylnaphthalene	BRL	mg/kg	0.40	0.068	1	8270C	11/03/04 12:33	bpurser	Q00551
2-Methylphenol	BRL	mg/kg	0.40	0.064	1	8270C	11/03/04 12:33	bpurser	Q00551
2-Nitrophenol	BRL	mg/kg	0.40	0.051	1	8270C	11/03/04 12:33	bpurser	Q00551
3&4-Methylphenol	BRL	mg/kg	0.40	0.063	1	8270C	11/03/04 12:33	bpurser	Q00551
3,3'-Dichlorobenzidine	BRL	mg/kg	0.80	0.13	1	8270C	11/03/04 12:33	bpurser	Q00551
4,6-Dinitro-2-methylphenol	BRL	mg/kg	2.0	0.090	1	8270C	11/03/04 12:33	bpurser	Q00551
4-Bromophenylphenylether	BRL	mg/kg	0.40	0.067	1	8270C	11/03/04 12:33	bpurser	Q00551
4-Chloro-3-methylphenol	BRL	mg/kg	0.80	0.075	1	8270C	11/03/04 12:33	bpurser	Q00551
4-Chloroaniline	BRL	mg/kg	0.40	0.089	1	8270C	11/03/04 12:33	bpurser	Q00551
4-Chlorophenylphenylether	BRL	mg/kg	0.40	0.061	1	8270C	11/03/04 12:33	bpurser	Q00551
4-Nitrophenol	BRL	mg/kg	2.0	0.099	1	8270C	11/03/04 12:33	bpurser	Q00551
Acenaphthene	BRL	mg/kg	0.40	0.076	1	8270C	11/03/04 12:33	bpurser	Q00551
Acenaphthylene	BRL	mg/kg	0.40	0.075	1	8270C	11/03/04 12:33	bpurser	Q00551
Anthracene	BRL	mg/kg	0.40	0.048	1	8270C	11/03/04 12:33	bpurser	Q00551
Azobenzene	BRL	mg/kg	2.0	0.21	1	8270C	11/03/04 12:33	bpurser	Q00551
Benzo(a)anthracene	BRL	mg/kg	0.40	0.079	1	8270C	11/03/04 12:33	bpurser	Q00551
Benzo(a)pyrene	BRL	mg/kg	0.40	0.040	1	8270C	11/03/04 12:33	bpurser	Q00551
Benzo(b)fluoranthene	BRL	mg/kg	0.40	0.053	1	8270C	11/03/04 12:33	bpurser	Q00551
Benzo(g,h,i)perylene	BRL	mg/kg	0.40	0.092	1	8270C	11/03/04 12:33	bpurser	Q00551
Benzo(k)fluoranthene	BRL	mg/kg	0.40	0.047	1	8270C	11/03/04 12:33	bpurser	Q00551
Benzoic acid	BRL	mg/kg	2.0	0.17	1	8270C	11/03/04 12:33	bpurser	Q00551
Benzyl alcohol	BRL	mg/kg	0.80	0.065	1	8270C	11/03/04 12:33	bpurser	Q00551
Bis(2-chloroethoxy)methane	BRL	mg/kg	0.40	0.076	1	8270C	11/03/04 12:33	bpurser	Q00551
Bis(2-chloroethyl)ether	BRL	mg/kg	0.40	0.028	1	8270C	11/03/04 12:33	bpurser	Q00551



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Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: W-SIDE
 Prism Sample ID: 102050
 COC Group: G1004456
 Time Collected: 10/25/04 17:25
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	mg/kg	0.40	0.056	1	8270C	11/03/04 12:33	bpurser	Q00551
Bis(2-ethylhexyl)phthalate	BRL	mg/kg	0.40	0.044	1	8270C	11/03/04 12:33	bpurser	Q00551
Butylbenzylphthalate	BRL	mg/kg	0.40	0.041	1	8270C	11/03/04 12:33	bpurser	Q00551
Chrysene	BRL	mg/kg	0.40	0.075	1	8270C	11/03/04 12:33	bpurser	Q00551
Di-n-butylphthalate	BRL	mg/kg	0.40	0.055	1	8270C	11/03/04 12:33	bpurser	Q00551
Di-n-octylphthalate	BRL	mg/kg	0.40	0.069	1	8270C	11/03/04 12:33	bpurser	Q00551
Dibenzo(a,h)anthracene	BRL	mg/kg	0.40	0.095	1	8270C	11/03/04 12:33	bpurser	Q00551
Dibenzofuran	BRL	mg/kg	0.40	0.074	1	8270C	11/03/04 12:33	bpurser	Q00551
Diethylphthalate	BRL	mg/kg	0.40	0.040	1	8270C	11/03/04 12:33	bpurser	Q00551
Dimethylphthalate	BRL	mg/kg	0.40	0.055	1	8270C	11/03/04 12:33	bpurser	Q00551
Fluoranthene	BRL	mg/kg	0.40	0.048	1	8270C	11/03/04 12:33	bpurser	Q00551
Fluorene	BRL	mg/kg	0.40	0.075	1	8270C	11/03/04 12:33	bpurser	Q00551
Hexachlorobenzene	BRL	mg/kg	0.40	0.058	1	8270C	11/03/04 12:33	bpurser	Q00551
Hexachlorobutadiene	BRL	mg/kg	0.40	0.052	1	8270C	11/03/04 12:33	bpurser	Q00551
Hexachlorocyclopentadiene	BRL	mg/kg	0.40	0.092	1	8270C	11/03/04 12:33	bpurser	Q00551
Hexachloroethane	BRL	mg/kg	0.40	0.053	1	8270C	11/03/04 12:33	bpurser	Q00551
Indeno(1,2,3-cd)pyrene	BRL	mg/kg	0.40	0.10	1	8270C	11/03/04 12:33	bpurser	Q00551
Isophorone	BRL	mg/kg	0.40	0.074	1	8270C	11/03/04 12:33	bpurser	Q00551
N-Nitrosodi-n-propylamine	BRL	mg/kg	0.40	0.073	1	8270C	11/03/04 12:33	bpurser	Q00551
N-Nitrosodiphenylamine	BRL	mg/kg	0.40	0.058	1	8270C	11/03/04 12:33	bpurser	Q00551
Naphthalene	BRL	mg/kg	0.40	0.056	1	8270C	11/03/04 12:33	bpurser	Q00551
Nitrobenzene	BRL	mg/kg	0.40	0.073	1	8270C	11/03/04 12:33	bpurser	Q00551
Pentachlorophenol	BRL	mg/kg	2.0	0.052	1	8270C	11/03/04 12:33	bpurser	Q00551
Phenanthrene	BRL	mg/kg	0.40	0.045	1	8270C	11/03/04 12:33	bpurser	Q00551
Phenol	BRL	mg/kg	0.40	0.048	1	8270C	11/03/04 12:33	bpurser	Q00551
Pyrene	BRL	mg/kg	0.40	0.032	1	8270C	11/03/04 12:33	bpurser	Q00551



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Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: W-SIDE
 Prism Sample ID: 102050
 COC Group: G1004456
 Time Collected: 10/25/04 17:25
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID	
Sample Preparation:			30.14	g /	1	mL	3550B	11/01/04 9:15	dpope	P11055

Surrogate	% Recovery	Control Limits
Terphenyl-d14	73	41 - 136
Phenol-d5	48	13 - 95
Nitrobenzene-d5	56	14 - 103
2-Fluorophenol	48	14 - 89
2-Fluorobiphenyl	55	21 - 108
2,4,6-Tribromophenol	60	25 - 123

Extractable Petroleum Hydrocarbons by GC-FID

C11-C22 Aromatics	BRL	mg/kg	24	8.5	1	MADEP EPH	10/31/04 3:17	grappaccioli	Q00582
C19-C36 Aliphatics	BRL	mg/kg	24	3.7	1	MADEP EPH	10/31/04 3:17	grappaccioli	Q00582
C9-C18 Aliphatics	BRL	mg/kg	49	7.3	1	MADEP EPH	10/31/04 3:17	grappaccioli	Q00582

Sample Preparation: 9.62 g / 2 mL EPH 10/28/04 8:00 dpope P11039

Surrogate	% Recovery	Control Limits
o-Terphenyl	85	40 - 140
2-Fluorobiphenyl	108	40 - 140
2-Bromonaphthalene	102	40 - 140
1-Chloro-octadecane	81	40 - 140

Volatile Petroleum Hydrocarbons by GC-PID/FID

C5-C8 Aliphatics	BRL	mg/kg	4.9	1.7	1	MADEP VPH	11/09/04 8:13	erussell	Q00586
C9-C10 Aromatics	BRL	mg/kg	1.2	0.49	1	MADEP VPH	11/09/04 8:13	erussell	Q00586
C9-C12 Aliphatics	BRL	mg/kg	2.4	1.7	1	MADEP VPH	11/09/04 8:13	erussell	Q00586



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Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: W-SIDE
 Prism Sample ID: 102050
 COC Group: G1004456
 Time Collected: 10/25/04 17:25
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
						Surrogate	% Recovery	Control Limits	
						2,5-Dibromotoluene-PID	118	70 - 130	
						2,5-Dibromotoluene-FID	105	70 - 130	

Sample Weight Determination

Weight 1	17.42	g			1	MADEP VPH	10/27/04 0:00	lbrown	
Weight 2	17.73	g			1	MADEP VPH	10/27/04 0:00	lbrown	

Sample Comment(s):

All results are reported on a dry-weight basis
 BRL = Below Reporting Limit
 J = Estimated value between the Reporting Limit and the MDL

Angela D. Overcash, V.P. Laboratory Services



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 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: E-SIDE
 Prism Sample ID: 102051
 COC Group: G1004456
 Time Collected: 10/25/04 15:25
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	72.9	%			1	SM2540 G	10/28/04 10:10	dobryan	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	5.80	g			1	5035	10/27/04 0:00	lbrown	
Weight Bisulfate 2	6.01	g			1	5035	10/27/04 0:00	lbrown	
Weight Methanol	6.06	g			1	5035	10/27/04 0:00	lbrown	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0059	0.00097	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,1,1,2-Tetrachloroethane	BRL	mg/kg	0.0059	0.00072	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,1,2-Trichloroethane	BRL	mg/kg	0.0059	0.00057	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,1-Dichloroethane	BRL	mg/kg	0.0059	0.0011	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,1-Dichloroethene	BRL	mg/kg	0.0059	0.00088	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,1-Dichloropropene	BRL	mg/kg	0.0059	0.0010	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0059	0.0041	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,2,3-Trichloropropane	BRL	mg/kg	0.0059	0.00031	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0059	0.0040	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0059	0.0043	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0059	0.00059	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,2-Dichlorobenzene	BRL	mg/kg	0.0059	0.0028	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,2-Dichloroethane	BRL	mg/kg	0.0059	0.0014	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,2-Dichloropropane	BRL	mg/kg	0.0059	0.0013	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0059	0.0044	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,3-Dichlorobenzene	BRL	mg/kg	0.0059	0.0034	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,3-Dichloropropane	BRL	mg/kg	0.0059	0.0011	1	8260B	10/29/04 18:55	kcampigotto	Q00500
1,4-Dichlorobenzene	BRL	mg/kg	0.0059	0.0027	1	8260B	10/29/04 18:55	kcampigotto	Q00500
2,2-Dichloropropane	BRL	mg/kg	0.0059	0.0011	1	8260B	10/29/04 18:55	kcampigotto	Q00500
2-Chlorotoluene	BRL	mg/kg	0.0059	0.0030	1	8260B	10/29/04 18:55	kcampigotto	Q00500



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 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: E-SIDE
 Prism Sample ID: 102051
 COC Group: G1004456
 Time Collected: 10/25/04 15:25
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.059	0.00074	1	8260B	10/29/04 18:55	kcampigotto	Q00500
4-Chlorotoluene	BRL	mg/kg	0.0059	0.0031	1	8260B	10/29/04 18:55	kcampigotto	Q00500
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.059	0.0011	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Acetone	0.025 J	mg/kg	0.059	0.0060	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Benzene	BRL	mg/kg	0.0035	0.0011	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Bromobenzene	BRL	mg/kg	0.0059	0.00084	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Bromochloromethane	BRL	mg/kg	0.0059	0.00097	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Bromodichloromethane	BRL	mg/kg	0.0059	0.00073	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Bromoform	BRL	mg/kg	0.0059	0.00096	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Bromomethane	BRL	mg/kg	0.012	0.00093	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Carbon tetrachloride	BRL	mg/kg	0.0059	0.00091	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Chlorobenzene	BRL	mg/kg	0.0059	0.0010	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Chlorodibromomethane	BRL	mg/kg	0.0059	0.0012	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Chloroethane	BRL	mg/kg	0.012	0.0014	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Chloroform	BRL	mg/kg	0.0059	0.00073	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Chloromethane	BRL	mg/kg	0.0059	0.00058	1	8260B	10/29/04 18:55	kcampigotto	Q00500
cis-1,2-Dichloroethene	BRL	mg/kg	0.0059	0.0010	1	8260B	10/29/04 18:55	kcampigotto	Q00500
cis-1,3-Dichloropropene	BRL	mg/kg	0.0059	0.0013	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Dichlorodifluoromethane	BRL	mg/kg	0.0059	0.00074	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Ethylbenzene	BRL	mg/kg	0.0059	0.0022	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Isopropyl ether (IPE)	BRL	mg/kg	0.0059	0.0011	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Isopropylbenzene	BRL	mg/kg	0.0059	0.0039	1	8260B	10/29/04 18:55	kcampigotto	Q00500
m,p-Xylenes	BRL	mg/kg	0.012	0.0048	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.12	0.0022	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.012	0.0007	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Methylene chloride	BRL	mg/kg	0.0059	0.0014	1	8260B	10/29/04 18:55	kcampigotto	Q00500
n-Butylbenzene	BRL	mg/kg	0.0059	0.0054	1	8260B	10/29/04 18:55	kcampigotto	Q00500
n-Propylbenzene	BRL	mg/kg	0.0059	0.00046	1	8260B	10/29/04 18:55	kcampigotto	Q00500



NC Certification No. 402
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 NC Drinking Water Cert. No. 37735
 FL Certification No. E87519.

Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: E-SIDE
 Prism Sample ID: 102051
 COC Group: G1004456
 Time Collected: 10/25/04 15:25
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Naphthalene	BRL	mg/kg	0.012	0.0024	1	8260B	10/29/04 18:55	kcampigotto	Q00500
o-Xylene	BRL	mg/kg	0.0059	0.0019	1	8260B	10/29/04 18:55	kcampigotto	Q00500
p-Isopropyltoluene	BRL	mg/kg	0.0059	0.0053	1	8260B	10/29/04 18:55	kcampigotto	Q00500
sec-Butylbenzene	BRL	mg/kg	0.0059	0.0057	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Styrene	BRL	mg/kg	0.0059	0.0014	1	8260B	10/29/04 18:55	kcampigotto	Q00500
tert-Butylbenzene	BRL	mg/kg	0.0059	0.0054	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Tetrachloroethene	BRL	mg/kg	0.0059	0.0022	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Toluene	BRL	mg/kg	0.0059	0.0012	1	8260B	10/29/04 18:55	kcampigotto	Q00500
trans-1,2-Dichloroethene	BRL	mg/kg	0.0059	0.0011	1	8260B	10/29/04 18:55	kcampigotto	Q00500
trans-1,3-Dichloropropene	BRL	mg/kg	0.0059	0.0013	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Trichloroethene	BRL	mg/kg	0.0059	0.0012	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Trichlorofluoromethane	BRL	mg/kg	0.0059	0.0010	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Vinyl acetate	BRL	mg/kg	0.030	0.0008	1	8260B	10/29/04 18:55	kcampigotto	Q00500
Vinyl chloride	BRL	mg/kg	0.0059	0.00072	1	8260B	10/29/04 18:55	kcampigotto	Q00500

Surrogate	% Recovery	Control Limits
Toluene-d8	100	81 - 128
Dibromofluoromethane	124	67 - 143
Bromofluorobenzene	107	77 - 128

Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	mg/kg	0.45	0.076	1	8270C	11/03/04 13:19	bpurser	Q00551
1,2-Dichlorobenzene	BRL	mg/kg	0.45	0.062	1	8270C	11/03/04 13:19	bpurser	Q00551
1,3-Dichlorobenzene	BRL	mg/kg	0.45	0.047	1	8270C	11/03/04 13:19	bpurser	Q00551
1,4-Dichlorobenzene	BRL	mg/kg	0.45	0.037	1	8270C	11/03/04 13:19	bpurser	Q00551
2,4,6-Trichlorophenol	BRL	mg/kg	0.45	0.096	1	8270C	11/03/04 13:19	bpurser	Q00551
2,4-Dichlorophenol	BRL	mg/kg	0.45	0.094	1	8270C	11/03/04 13:19	bpurser	Q00551
2,4-Dimethylphenol	BRL	mg/kg	0.45	0.088	1	8270C	11/03/04 13:19	bpurser	Q00551
2,4-Dinitrophenol	BRL	mg/kg	2.3	0.11	1	8270C	11/03/04 13:19	bpurser	Q00551



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Laboratory Report

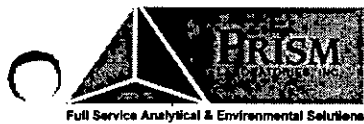
11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: E-SIDE
 Prism Sample ID: 102051
 COC Group: G1004456
 Time Collected: 10/25/04 15:25
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,4-Dinitrotoluene	BRL	mg/kg	0.45	0.070	1	8270C	11/03/04 13:19	bpurser	Q00551
2,6-Dinitrotoluene	BRL	mg/kg	0.45	0.054	1	8270C	11/03/04 13:19	bpurser	Q00551
2-Chloronaphthalene	BRL	mg/kg	0.45	0.074	1	8270C	11/03/04 13:19	bpurser	Q00551
2-Chlorophenol	BRL	mg/kg	0.45	0.045	1	8270C	11/03/04 13:19	bpurser	Q00551
2-Methylnaphthalene	BRL	mg/kg	0.45	0.077	1	8270C	11/03/04 13:19	bpurser	Q00551
2-Methylphenol	BRL	mg/kg	0.45	0.073	1	8270C	11/03/04 13:19	bpurser	Q00551
2-Nitrophenol	BRL	mg/kg	0.45	0.058	1	8270C	11/03/04 13:19	bpurser	Q00551
3&4-Methylphenol	BRL	mg/kg	0.45	0.071	1	8270C	11/03/04 13:19	bpurser	Q00551
3,3'-Dichlorobenzidine	BRL	mg/kg	0.91	0.15	1	8270C	11/03/04 13:19	bpurser	Q00551
4,6-Dinitro-2-methylphenol	BRL	mg/kg	2.3	0.10	1	8270C	11/03/04 13:19	bpurser	Q00551
4-Bromophenylphenylether	BRL	mg/kg	0.45	0.076	1	8270C	11/03/04 13:19	bpurser	Q00551
4-Chloro-3-methylphenol	BRL	mg/kg	0.91	0.085	1	8270C	11/03/04 13:19	bpurser	Q00551
4-Chloroaniline	BRL	mg/kg	0.45	0.10	1	8270C	11/03/04 13:19	bpurser	Q00551
4-Chlorophenylphenylether	BRL	mg/kg	0.45	0.069	1	8270C	11/03/04 13:19	bpurser	Q00551
4-Nitrophenol	BRL	mg/kg	2.3	0.11	1	8270C	11/03/04 13:19	bpurser	Q00551
Acenaphthene	BRL	mg/kg	0.45	0.087	1	8270C	11/03/04 13:19	bpurser	Q00551
Acenaphthylene	BRL	mg/kg	0.45	0.085	1	8270C	11/03/04 13:19	bpurser	Q00551
Anthracene	BRL	mg/kg	0.45	0.055	1	8270C	11/03/04 13:19	bpurser	Q00551
Azobenzene	BRL	mg/kg	2.3	0.23	1	8270C	11/03/04 13:19	bpurser	Q00551
Benzo(a)anthracene	BRL	mg/kg	0.45	0.090	1	8270C	11/03/04 13:19	bpurser	Q00551
Benzo(a)pyrene	BRL	mg/kg	0.45	0.045	1	8270C	11/03/04 13:19	bpurser	Q00551
Benzo(b)fluoranthene	BRL	mg/kg	0.45	0.061	1	8270C	11/03/04 13:19	bpurser	Q00551
Benzo(g,h,i)perylene	BRL	mg/kg	0.45	0.10	1	8270C	11/03/04 13:19	bpurser	Q00551
Benzo(k)fluoranthene	BRL	mg/kg	0.45	0.054	1	8270C	11/03/04 13:19	bpurser	Q00551
Benzoic acid	BRL	mg/kg	2.3	0.19	1	8270C	11/03/04 13:19	bpurser	Q00551
Benzyl alcohol	BRL	mg/kg	0.91	0.074	1	8270C	11/03/04 13:19	bpurser	Q00551
Bis(2-chloroethoxy)methane	BRL	mg/kg	0.45	0.087	1	8270C	11/03/04 13:19	bpurser	Q00551
Bis(2-chloroethyl)ether	BRL	mg/kg	0.45	0.032	1	8270C	11/03/04 13:19	bpurser	Q00551



NC Certification No. 402
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Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: E-SIDE
 Prism Sample ID: 102051
 COC Group: G1004456
 Time Collected: 10/25/04 15:25
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	mg/kg	0.45	0.063	1	8270C	11/03/04 13:19	bpurser	Q00551
Bis(2-ethylhexyl)phthalate	BRL	mg/kg	0.45	0.050	1	8270C	11/03/04 13:19	bpurser	Q00551
Butylbenzylphthalate	BRL	mg/kg	0.45	0.047	1	8270C	11/03/04 13:19	bpurser	Q00551
Chrysene	BRL	mg/kg	0.45	0.085	1	8270C	11/03/04 13:19	bpurser	Q00551
Di-n-butylphthalate	BRL	mg/kg	0.45	0.062	1	8270C	11/03/04 13:19	bpurser	Q00551
Di-n-octylphthalate	BRL	mg/kg	0.45	0.079	1	8270C	11/03/04 13:19	bpurser	Q00551
Dibenzo(a,h)anthracene	BRL	mg/kg	0.45	0.11	1	8270C	11/03/04 13:19	bpurser	Q00551
Dibenzofuran	BRL	mg/kg	0.45	0.084	1	8270C	11/03/04 13:19	bpurser	Q00551
Diethylphthalate	BRL	mg/kg	0.45	0.045	1	8270C	11/03/04 13:19	bpurser	Q00551
Dimethylphthalate	BRL	mg/kg	0.45	0.062	1	8270C	11/03/04 13:19	bpurser	Q00551
Fluoranthene	BRL	mg/kg	0.45	0.055	1	8270C	11/03/04 13:19	bpurser	Q00551
Fluorene	BRL	mg/kg	0.45	0.085	1	8270C	11/03/04 13:19	bpurser	Q00551
Hexachlorobenzene	BRL	mg/kg	0.45	0.066	1	8270C	11/03/04 13:19	bpurser	Q00551
Hexachlorobutadiene	BRL	mg/kg	0.45	0.059	1	8270C	11/03/04 13:19	bpurser	Q00551
Hexachlorocyclopentadiene	BRL	mg/kg	0.45	0.10	1	8270C	11/03/04 13:19	bpurser	Q00551
Hexachloroethane	BRL	mg/kg	0.45	0.061	1	8270C	11/03/04 13:19	bpurser	Q00551
Indeno(1,2,3-cd)pyrene	BRL	mg/kg	0.45	0.12	1	8270C	11/03/04 13:19	bpurser	Q00551
Isophorone	BRL	mg/kg	0.45	0.084	1	8270C	11/03/04 13:19	bpurser	Q00551
N-Nitrosodi-n-propylamine	BRL	mg/kg	0.45	0.083	1	8270C	11/03/04 13:19	bpurser	Q00551
N-Nitrosodiphenylamine	BRL	mg/kg	0.45	0.066	1	8270C	11/03/04 13:19	bpurser	Q00551
Naphthalene	BRL	mg/kg	0.45	0.063	1	8270C	11/03/04 13:19	bpurser	Q00551
Nitrobenzene	BRL	mg/kg	0.45	0.083	1	8270C	11/03/04 13:19	bpurser	Q00551
Pentachlorophenol	BRL	mg/kg	2.3	0.059	1	8270C	11/03/04 13:19	bpurser	Q00551
Phenanthrene	BRL	mg/kg	0.45	0.051	1	8270C	11/03/04 13:19	bpurser	Q00551
Phenol	BRL	mg/kg	0.45	0.055	1	8270C	11/03/04 13:19	bpurser	Q00551
Pyrene	BRL	mg/kg	0.45	0.036	1	8270C	11/03/04 13:19	bpurser	Q00551



NC Certification No. 402
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 FL Certification No. E87519

Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: E-SIDE
 Prism Sample ID: 102051
 COC Group: G1004456
 Time Collected: 10/25/04 15:25
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			29.88	g	/	1 mL	3550B	11/01/04 9:15	dpope P11055

Surrogate	% Recovery	Control Limits
Terphenyl-d14	73	41 - 136
Phenol-d5	57	13 - 95
Nitrobenzene-d5	61	14 - 103
2-Fluorophenol	52	14 - 89
2-Fluorobiphenyl	60	21 - 108
2,4,6-Tribromophenol	66	25 - 123

Extractable Petroleum Hydrocarbons by GC-FID

C11-C22 Aromatics	BRL	mg/kg	27	9.6	1	MADEP EPH	10/30/04 23:49	grappaccioli	Q00582
C19-C36 Aliphatics	BRL	mg/kg	27	4.1	1	MADEP EPH	10/30/04 23:49	grappaccioli	Q00582
C9-C18 Aliphatics	BRL	mg/kg	55	8.2	1	MADEP EPH	10/30/04 23:49	grappaccioli	Q00582

Sample Preparation:			10.1	g	/	2 mL	EPH	10/28/04 8:00	dpope P11039
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Surrogate	% Recovery	Control Limits
o-Terphenyl	122	40 - 140
2-Fluorobiphenyl	97	40 - 140
2-Bromonaphthalene	91	40 - 140
1-Chloro-octadecane	87	40 - 140

Volatile Petroleum Hydrocarbons by GC-PID/FID

C5-C8 Aliphatics	BRL	mg/kg	5.5	1.9	1	MADEP VPH	11/09/04 20:40	erussell	Q00586
C9-C10 Aromatics	BRL	mg/kg	1.4	0.55	1	MADEP VPH	11/09/04 20:40	erussell	Q00586
C9-C12 Aliphatics	BRL	mg/kg	2.7	1.9	1	MADEP VPH	11/09/04 20:40	erussell	Q00586



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 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: E-SIDE
 Prism Sample ID: 102051
 COC Group: G1004456
 Time Collected: 10/25/04 15:25
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Surrogate	% Recovery	Control Limits
2,5-Dibromotoluene-PID	95	70 - 130
2,5-Dibromotoluene-FID	72	70 - 130

Sample Weight Determination

Weight 1	18.44	g		1	MADEP VPH	10/27/04 0:00	lbrown
Weight 2	20.29	g		1	MADEP VPH	10/27/04 0:00	lbrown

Sample Comment(s):

All results are reported on a dry-weight basis
 BRL = Below Reporting Limit
 J = Estimated value between the Reporting Limit and the MDL

Angela D. Overcash, V.P. Laboratory Services



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 NC Drinking Water Cert. No. 37735
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Laboratory Report

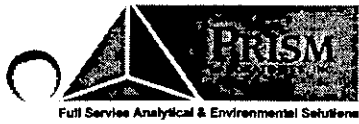
11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: S-SIDE
 Prism Sample ID: 102052
 COC Group: G1004456
 Time Collected: 10/26/04 11:00
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	75.5	%			1	SM2540 G	10/28/04 10:10	dobryan	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	5.08	g			1	5035	10/27/04 0:00	lbrown	
Weight Bisulfate 2	5.71	g			1	5035	10/27/04 0:00	lbrown	
Weight Methanol	5.62	g			1	5035	10/27/04 0:00	lbrown	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0065	0.0011	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0065	0.0008	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,1,2-Trichloroethane	BRL	mg/kg	0.0065	0.00063	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,1-Dichloroethane	BRL	mg/kg	0.0065	0.0013	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,1-Dichloroethene	BRL	mg/kg	0.0065	0.00096	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,1-Dichloropropene	BRL	mg/kg	0.0065	0.0011	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0065	0.0046	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,2,3-Trichloropropane	BRL	mg/kg	0.0065	0.00034	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0065	0.0044	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0065	0.0047	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0065	0.00065	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,2-Dichlorobenzene	BRL	mg/kg	0.0065	0.0031	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,2-Dichloroethane	BRL	mg/kg	0.0065	0.0016	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,2-Dichloropropane	BRL	mg/kg	0.0065	0.0014	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0065	0.0048	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,3-Dichlorobenzene	BRL	mg/kg	0.0065	0.0038	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,3-Dichloropropane	BRL	mg/kg	0.0065	0.0012	1	8260B	10/29/04 19:40	kcampigotto	Q00500
1,4-Dichlorobenzene	BRL	mg/kg	0.0065	0.0030	1	8260B	10/29/04 19:40	kcampigotto	Q00500
2,2-Dichloropropane	BRL	mg/kg	0.0065	0.0012	1	8260B	10/29/04 19:40	kcampigotto	Q00500
2-Chlorotoluene	BRL	mg/kg	0.0065	0.0033	1	8260B	10/29/04 19:40	kcampigotto	Q00500



NC Certification No. 402
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Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: S-SIDE
 Prism Sample ID: 102052
 COC Group: G1004456
 Time Collected: 10/26/04 11:00
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.065	0.00082	1	8260B	10/29/04 19:40	kcampigotto	Q00500
4-Chlorotoluene	BRL	mg/kg	0.0065	0.0034	1	8260B	10/29/04 19:40	kcampigotto	Q00500
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.065	0.0012	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Acetone	0.070	mg/kg	0.065	0.0066	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Benzene	BRL	mg/kg	0.0039	0.0013	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Bromobenzene	BRL	mg/kg	0.0065	0.00093	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Bromochloromethane	BRL	mg/kg	0.0065	0.0011	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Bromodichloromethane	BRL	mg/kg	0.0065	0.00081	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Bromoform	BRL	mg/kg	0.0065	0.0011	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Bromomethane	BRL	mg/kg	0.013	0.0010	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Carbon tetrachloride	BRL	mg/kg	0.0065	0.0010	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Chlorobenzene	BRL	mg/kg	0.0065	0.0011	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Chlorodibromomethane	BRL	mg/kg	0.0065	0.0013	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Chloroethane	BRL	mg/kg	0.013	0.0016	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Chloroform	BRL	mg/kg	0.0065	0.00081	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Chloromethane	BRL	mg/kg	0.0065	0.00064	1	8260B	10/29/04 19:40	kcampigotto	Q00500
cis-1,2-Dichloroethene	BRL	mg/kg	0.0065	0.0011	1	8260B	10/29/04 19:40	kcampigotto	Q00500
cis-1,3-Dichloropropene	BRL	mg/kg	0.0065	0.0014	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Dichlorodifluoromethane	BRL	mg/kg	0.0065	0.00082	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Ethylbenzene	BRL	mg/kg	0.0065	0.0025	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Isopropyl ether (IPE)	BRL	mg/kg	0.0065	0.0013	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Isopropylbenzene	BRL	mg/kg	0.0065	0.0043	1	8260B	10/29/04 19:40	kcampigotto	Q00500
m,p-Xylenes	BRL	mg/kg	0.013	0.0053	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.13	0.0025	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.013	0.00077	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Methylene chloride	BRL	mg/kg	0.0065	0.0016	1	8260B	10/29/04 19:40	kcampigotto	Q00500
n-Butylbenzene	BRL	mg/kg	0.0065	0.0060	1	8260B	10/29/04 19:40	kcampigotto	Q00500
n-Propylbenzene	BRL	mg/kg	0.0065	0.00051	1	8260B	10/29/04 19:40	kcampigotto	Q00500



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Laboratory Report

11/10/04

North Carolina Department of
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 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: S-SIDE
 Prism Sample ID: 102052
 COC Group: G1004456
 Time Collected: 10/26/04 11:00
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Naphthalene	BRL	mg/kg	0.013	0.0026	1	8260B	10/29/04 19:40	kcampigotto	Q00500
o-Xylene	BRL	mg/kg	0.0065	0.0021	1	8260B	10/29/04 19:40	kcampigotto	Q00500
p-Isopropyltoluene	BRL	mg/kg	0.0065	0.0059	1	8260B	10/29/04 19:40	kcampigotto	Q00500
sec-Butylbenzene	BRL	mg/kg	0.0065	0.0063	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Styrene	BRL	mg/kg	0.0065	0.0016	1	8260B	10/29/04 19:40	kcampigotto	Q00500
tert-Butylbenzene	BRL	mg/kg	0.0065	0.0060	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Tetrachloroethene	BRL	mg/kg	0.0065	0.0025	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Toluene	BRL	mg/kg	0.0065	0.0013	1	8260B	10/29/04 19:40	kcampigotto	Q00500
trans-1,2-Dichloroethene	BRL	mg/kg	0.0065	0.0012	1	8260B	10/29/04 19:40	kcampigotto	Q00500
trans-1,3-Dichloropropene	BRL	mg/kg	0.0065	0.0014	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Trichloroethene	BRL	mg/kg	0.0065	0.0013	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Trichlorofluoromethane	BRL	mg/kg	0.0065	0.0011	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Vinyl acetate	BRL	mg/kg	0.033	0.00089	1	8260B	10/29/04 19:40	kcampigotto	Q00500
Vinyl chloride	BRL	mg/kg	0.0065	0.0008	1	8260B	10/29/04 19:40	kcampigotto	Q00500

Surrogate	% Recovery	Control Limits
Toluene-d8	97	81 - 128
Dibromofluoromethane	123	67 - 143
Bromofluorobenzene	102	77 - 128

Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	mg/kg	0.44	0.074	1	8270C	11/03/04 14:05	bpurser	Q00551
1,2-Dichlorobenzene	BRL	mg/kg	0.44	0.060	1	8270C	11/03/04 14:05	bpurser	Q00551
1,3-Dichlorobenzene	BRL	mg/kg	0.44	0.045	1	8270C	11/03/04 14:05	bpurser	Q00551
1,4-Dichlorobenzene	BRL	mg/kg	0.44	0.036	1	8270C	11/03/04 14:05	bpurser	Q00551
2,4,6-Trichlorophenol	BRL	mg/kg	0.44	0.094	1	8270C	11/03/04 14:05	bpurser	Q00551
2,4-Dichlorophenol	BRL	mg/kg	0.44	0.091	1	8270C	11/03/04 14:05	bpurser	Q00551
2,4-Dimethylphenol	BRL	mg/kg	0.44	0.086	1	8270C	11/03/04 14:05	bpurser	Q00551
2,4-Dinitrophenol	BRL	mg/kg	2.2	0.11	1	8270C	11/03/04 14:05	bpurser	Q00551



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Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: S-SIDE
 Prism Sample ID: 102052
 COC Group: G1004456
 Time Collected: 10/26/04 11:00
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,4-Dinitrotoluene	BRL	mg/kg	0.44	0.068	1	8270C	11/03/04 14:05	bpurser	Q00551
2,6-Dinitrotoluene	BRL	mg/kg	0.44	0.052	1	8270C	11/03/04 14:05	bpurser	Q00551
2-Chloronaphthalene	BRL	mg/kg	0.44	0.072	1	8270C	11/03/04 14:05	bpurser	Q00551
2-Chlorophenol	BRL	mg/kg	0.44	0.044	1	8270C	11/03/04 14:05	bpurser	Q00551
2-Methylnaphthalene	BRL	mg/kg	0.44	0.075	1	8270C	11/03/04 14:05	bpurser	Q00551
2-Methylphenol	BRL	mg/kg	0.44	0.071	1	8270C	11/03/04 14:05	bpurser	Q00551
2-Nitrophenol	BRL	mg/kg	0.44	0.056	1	8270C	11/03/04 14:05	bpurser	Q00551
3&4-Methylphenol	BRL	mg/kg	0.44	0.069	1	8270C	11/03/04 14:05	bpurser	Q00551
3,3'-Dichlorobenzidine	BRL	mg/kg	0.87	0.15	1	8270C	11/03/04 14:05	bpurser	Q00551
4,6-Dinitro-2-methylphenol	BRL	mg/kg	2.2	0.099	1	8270C	11/03/04 14:05	bpurser	Q00551
4-Bromophenylphenylether	BRL	mg/kg	0.44	0.074	1	8270C	11/03/04 14:05	bpurser	Q00551
4-Chloro-3-methylphenol	BRL	mg/kg	0.88	0.083	1	8270C	11/03/04 14:05	bpurser	Q00551
4-Chloroaniline	BRL	mg/kg	0.44	0.098	1	8270C	11/03/04 14:05	bpurser	Q00551
4-Chlorophenylphenylether	BRL	mg/kg	0.44	0.067	1	8270C	11/03/04 14:05	bpurser	Q00551
4-Nitrophenol	BRL	mg/kg	2.2	0.11	1	8270C	11/03/04 14:05	bpurser	Q00551
Acenaphthene	BRL	mg/kg	0.44	0.084	1	8270C	11/03/04 14:05	bpurser	Q00551
Acenaphthylene	BRL	mg/kg	0.44	0.083	1	8270C	11/03/04 14:05	bpurser	Q00551
Anthracene	BRL	mg/kg	0.44	0.053	1	8270C	11/03/04 14:05	bpurser	Q00551
Azobenzene	BRL	mg/kg	2.2	0.23	1	8270C	11/03/04 14:05	bpurser	Q00551
Benzo(a)anthracene	BRL	mg/kg	0.44	0.087	1	8270C	11/03/04 14:05	bpurser	Q00551
Benzo(a)pyrene	BRL	mg/kg	0.44	0.044	1	8270C	11/03/04 14:05	bpurser	Q00551
Benzo(b)fluoranthene	BRL	mg/kg	0.44	0.059	1	8270C	11/03/04 14:05	bpurser	Q00551
Benzo(g,h,i)perylene	BRL	mg/kg	0.44	0.10	1	8270C	11/03/04 14:05	bpurser	Q00551
Benzo(k)fluoranthene	BRL	mg/kg	0.44	0.052	1	8270C	11/03/04 14:05	bpurser	Q00551
Benzoic acid	BRL	mg/kg	2.2	0.19	1	8270C	11/03/04 14:05	bpurser	Q00551
Benzyl alcohol	BRL	mg/kg	0.88	0.072	1	8270C	11/03/04 14:05	bpurser	Q00551
Bis(2-chloroethoxy)methane	BRL	mg/kg	0.44	0.084	1	8270C	11/03/04 14:05	bpurser	Q00551
Bis(2-chloroethyl)ether	BRL	mg/kg	0.44	0.031	1	8270C	11/03/04 14:05	bpurser	Q00551



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Laboratory Report

11/10/04

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 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: S-SIDE
 Prism Sample ID: 102052
 COC Group: G1004456
 Time Collected: 10/26/04 11:00
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	mg/kg	0.44	0.062	1	8270C	11/03/04 14:05	bpurser	Q00551
Bis(2-ethylhexyl)phthalate	BRL	mg/kg	0.44	0.048	1	8270C	11/03/04 14:05	bpurser	Q00551
Butylbenzylphthalate	BRL	mg/kg	0.44	0.045	1	8270C	11/03/04 14:05	bpurser	Q00551
Chrysene	BRL	mg/kg	0.44	0.083	1	8270C	11/03/04 14:05	bpurser	Q00551
Di-n-butylphthalate	BRL	mg/kg	0.44	0.060	1	8270C	11/03/04 14:05	bpurser	Q00551
Di-n-octylphthalate	BRL	mg/kg	0.44	0.076	1	8270C	11/03/04 14:05	bpurser	Q00551
Dibenzo(a,h)anthracene	BRL	mg/kg	0.44	0.10	1	8270C	11/03/04 14:05	bpurser	Q00551
Dibenzofuran	BRL	mg/kg	0.44	0.082	1	8270C	11/03/04 14:05	bpurser	Q00551
Diethylphthalate	BRL	mg/kg	0.44	0.044	1	8270C	11/03/04 14:05	bpurser	Q00551
Dimethylphthalate	BRL	mg/kg	0.44	0.060	1	8270C	11/03/04 14:05	bpurser	Q00551
Fluoranthene	BRL	mg/kg	0.44	0.053	1	8270C	11/03/04 14:05	bpurser	Q00551
Fluorene	BRL	mg/kg	0.44	0.083	1	8270C	11/03/04 14:05	bpurser	Q00551
Hexachlorobenzene	BRL	mg/kg	0.44	0.064	1	8270C	11/03/04 14:05	bpurser	Q00551
Hexachlorobutadiene	BRL	mg/kg	0.44	0.057	1	8270C	11/03/04 14:05	bpurser	Q00551
Hexachlorocyclopentadiene	BRL	mg/kg	0.44	0.10	1	8270C	11/03/04 14:05	bpurser	Q00551
Hexachloroethane	BRL	mg/kg	0.44	0.059	1	8270C	11/03/04 14:05	bpurser	Q00551
Indeno(1,2,3-cd)pyrene	BRL	mg/kg	0.44	0.11	1	8270C	11/03/04 14:05	bpurser	Q00551
Isophorone	BRL	mg/kg	0.44	0.082	1	8270C	11/03/04 14:05	bpurser	Q00551
N-Nitrosodi-n-propylamine	BRL	mg/kg	0.44	0.080	1	8270C	11/03/04 14:05	bpurser	Q00551
N-Nitrosodiphenylamine	BRL	mg/kg	0.44	0.064	1	8270C	11/03/04 14:05	bpurser	Q00551
Naphthalene	BRL	mg/kg	0.44	0.062	1	8270C	11/03/04 14:05	bpurser	Q00551
Nitrobenzene	BRL	mg/kg	0.44	0.080	1	8270C	11/03/04 14:05	bpurser	Q00551
Pentachlorophenol	BRL	mg/kg	2.2	0.057	1	8270C	11/03/04 14:05	bpurser	Q00551
Phenanthrene	BRL	mg/kg	0.44	0.049	1	8270C	11/03/04 14:05	bpurser	Q00551
Phenol	BRL	mg/kg	0.44	0.053	1	8270C	11/03/04 14:05	bpurser	Q00551
Pyrene	BRL	mg/kg	0.44	0.035	1	8270C	11/03/04 14:05	bpurser	Q00551



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Laboratory Report

11/10/04

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 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: S-SIDE
 Prism Sample ID: 102052
 COC Group: G1004456
 Time Collected: 10/26/04 11:00
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			29.72	g /	1 mL	3550B	11/01/04 9:15	dpope	P11055

Surrogate	% Recovery	Control Limits
Terphenyl-d14	80	41 - 136
Phenol-d5	66	13 - 95
Nitrobenzene-d5	66	14 - 103
2-Fluorophenol	62	14 - 89
2-Fluorobiphenyl	73	21 - 108
2,4,6-Tribromophenol	76	25 - 123

Extractable Petroleum Hydrocarbons by GC-FID

C11-C22 Aromatics	BRL	mg/kg	26	9.3	1	MADEP EPH	10/31/04 5:45	grappaccioli	Q00582
C19-C36 Aliphatics	78	mg/kg	26	4.0	1	MADEP EPH	10/31/04 5:45	grappaccioli	Q00582
C9-C18 Aliphatics	BRL	mg/kg	53	7.9	1	MADEP EPH	10/31/04 5:45	grappaccioli	Q00582

Sample Preparation:			9.56	g /	2 mL	EPH	10/28/04 8:00	dpope	P11039
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Surrogate	% Recovery	Control Limits
o-Terphenyl	129	40 - 140
2-Fluorobiphenyl	110	40 - 140
2-Bromonaphthalene	94	40 - 140
1-Chloro-octadecane	65	40 - 140

Volatile Petroleum Hydrocarbons by GC-PID/FID

C5-C8 Aliphatics	BRL	mg/kg	5.3	1.9	1	MADEP VPH	11/09/04 10:51	erussell	Q00586
C9-C10 Aromatics	BRL	mg/kg	1.3	0.53	1	MADEP VPH	11/09/04 10:51	erussell	Q00586
C9-C12 Aliphatics	BRL	mg/kg	2.6	1.9	1	MADEP VPH	11/09/04 10:51	erussell	Q00586



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Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: S-SIDE
 Prism Sample ID: 102052
 COC Group: G1004456
 Time Collected: 10/26/04 11:00
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Surrogate	% Recovery	Control Limits
2,5-Dibromotoluene-PID	119	70 - 130
2,5-Dibromotoluene-FID	76	70 - 130

Sample Weight Determination

Weight 1	20.17	g		1	MADEP VPH	10/27/04 0:00	lbrown
Weight 2	14.95	g		1	MADEP VPH	10/27/04 0:00	lbrown

Sample Comment(s):

All results are reported on a dry-weight basis

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
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Level II QC Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100

Project ID: ROW-026
 Project No.: WBS# 34448.1.1

COC Group Number: G1004456

Date/Time Submitted: 10/27/04 8:10

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q00500
1,1,1,2,2-Tetrachloroethane	ND	0.005	<0.0025	mg/kg	Q00500
1,1,2-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q00500
1,1-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q00500
1,1-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q00500
1,1-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q00500
1,2,3-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q00500
1,2,3-Trichloropropane	ND	0.005	<0.0025	mg/kg	Q00500
1,2,4-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q00500
1,2,4-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q00500
1,2-Dibromoethane (EDB)	ND	0.005	<0.0025	mg/kg	Q00500
1,2-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q00500
1,2-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q00500
1,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q00500
1,3,5-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q00500
1,3-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q00500
1,3-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q00500
1,4-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q00500
2,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q00500
2-Chlorotoluene	ND	0.05	<0.025	mg/kg	Q00500
2-Hexanone	ND	0.005	<0.0025	mg/kg	Q00500
4-Chlorotoluene	ND	0.05	<0.025	mg/kg	Q00500
4-Methyl-2-pentanone (MIBK)	ND	0.05	<0.025	mg/kg	Q00500
Acetone	ND	0.003	<0.0015	mg/kg	Q00500
Benzene	ND	0.005	<0.0025	mg/kg	Q00500
Bromobenzene	ND	0.005	<0.0025	mg/kg	Q00500
Bromochloromethane	ND	0.005	<0.0025	mg/kg	Q00500
Bromodichloromethane	ND	0.005	<0.0025	mg/kg	Q00500
Bromoform	ND	0.01	<0.005	mg/kg	Q00500
Bromomethane	ND	0.005	<0.0025	mg/kg	Q00500
Carbon tetrachloride	ND	0.005	<0.0025	mg/kg	Q00500
Chlorobenzene	ND	0.005	<0.0025	mg/kg	Q00500
Chlorodibromomethane	ND	0.01	<0.005	mg/kg	Q00500
Chloroethane	ND	0.005	<0.0025	mg/kg	Q00500
Chloroform	ND	0.005	<0.0025	mg/kg	Q00500
Chloromethane	ND	0.005	<0.0025	mg/kg	Q00500
cis-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q00500
cis-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q00500
Dichlorodifluoromethane	ND	0.005	<0.0025	mg/kg	Q00500
Ethylbenzene	ND	0.005	<0.0025	mg/kg	Q00500
Isopropyl ether (IPE)	ND	0.005	<0.0025	mg/kg	Q00500
Isopropylbenzene	ND	0.005	<0.0025	mg/kg	Q00500



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735
 FL Certification No. E87519

Level II QC Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100

Project ID: ROW-026
 Project No.: WBS# 34448.1.1

COC Group Number: G1004456
 Date/Time Submitted: 10/27/04 8:10

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
m,p-Xylenes	ND	0.01	<0.005	mg/kg	Q00500
Methyl ethyl ketone (MEK)	ND	0.1	<0.05	mg/kg	Q00500
Methyl t-butyl ether (MTBE)	ND	0.01	<0.005	mg/kg	Q00500
Methylene chloride	ND	0.005	<0.0025	mg/kg	Q00500
n-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q00500
n-Propylbenzene	ND	0.005	<0.0025	mg/kg	Q00500
Naphthalene	ND	0.01	<0.005	mg/kg	Q00500
o-Xylene	ND	0.005	<0.0025	mg/kg	Q00500
p-Isopropyltoluene	ND	0.005	<0.0025	mg/kg	Q00500
sec-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q00500
Styrene	ND	0.005	<0.0025	mg/kg	Q00500
tert-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q00500
Tetrachloroethene	ND	0.005	<0.0025	mg/kg	Q00500
Toluene	ND	0.005	<0.0025	mg/kg	Q00500
trans-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q00500
trans-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q00500
Trichloroethene	ND	0.005	<0.0025	mg/kg	Q00500
Trichlorofluoromethane	ND	0.005	<0.0025	mg/kg	Q00500
Vinyl chloride	ND	0.005	<0.0025	mg/kg	Q00500

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
1,1-Dichloroethene	47.8	50	µg/kg	96	57 - 122	Q00500
Benzene	50.9	50	µg/kg	102	62 - 119	Q00500
Chlorobenzene	50.3	50	µg/kg	101	61 - 124	Q00500
Toluene	53.8	50	µg/kg	108	57 - 122	Q00500
Trichloroethene	52.9	50	µg/kg	106	59 - 129	Q00500

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID	
102185	1,1-Dichloroethene	47.4	50	µg/kg	95	44 - 140	Q00500
	Benzene	44.2	50	µg/kg	88	46 - 136	Q00500
	Chlorobenzene	40.9	50	µg/kg	82	47 - 135	Q00500
	Toluene	45.7	50	µg/kg	91	47 - 136	Q00500
	Trichloroethene	44.2	50	µg/kg	88	45 - 141	Q00500

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID	
102185	1,1-Dichloroethene	45.4	50	µg/kg	91	44 - 140	4	0 - 23	Q00500



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COC Group Number: G1004456

Date/Time Submitted: 10/27/04 8:10

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
Benzene	44.8	50	µg/kg	90	46 - 136	1	0 - 22	Q00500
Chlorobenzene	41.4	50	µg/kg	83	47 - 135	1	0 - 22	Q00500
Toluene	45.7	50	µg/kg	91	47 - 136	0	0 - 22	Q00500
Trichloroethene	45.0	50	µg/kg	90	45 - 141	2	0 - 23	Q00500



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Project ID: ROW-026
Project No.: WBS# 34448.1.1

COC Group Number: G1004456

Date/Time Submitted: 10/27/04 8:10

Semi-volatile Organic Compounds by GC/MS, method 8270C

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,2,4-Trichlorobenzene	ND	0.33	<0.165	mg/kg	Q00551
1,2-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q00551
1,3-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q00551
1,4-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q00551
2,4,6-Trichlorophenol	ND	0.33	<0.165	mg/kg	Q00551
2,4-Dichlorophenol	ND	0.33	<0.165	mg/kg	Q00551
2,4-Dimethylphenol	ND	0.33	<0.165	mg/kg	Q00551
2,4-Dinitrophenol	ND	1.65	<0.825	mg/kg	Q00551
2,4-Dinitrotoluene	ND	0.33	<0.165	mg/kg	Q00551
2,6-Dinitrotoluene	ND	0.33	<0.165	mg/kg	Q00551
2-Chloronaphthalene	ND	0.33	<0.165	mg/kg	Q00551
2-Chlorophenol	ND	0.33	<0.165	mg/kg	Q00551
2-Methylnaphthalene	ND	0.33	<0.165	mg/kg	Q00551
2-Methylphenol	ND	0.33	<0.165	mg/kg	Q00551
2-Nitrophenol	ND	0.33	<0.165	mg/kg	Q00551
4,6-Dinitro-2-methylphenol	ND	1.65	<0.825	mg/kg	Q00551
4-Bromophenylphenylether	ND	0.33	<0.165	mg/kg	Q00551
4-Chloro-3-methylphenol	ND	0.66	<0.33	mg/kg	Q00551
4-Chloroaniline	ND	0.33	<0.165	mg/kg	Q00551
4-Chlorophenylphenylether	ND	0.33	<0.165	mg/kg	Q00551
4-Nitrophenol	ND	1.65	<0.825	mg/kg	Q00551
Acenaphthene	ND	0.33	<0.165	mg/kg	Q00551
Acenaphthylene	ND	0.33	<0.165	mg/kg	Q00551
Anthracene	ND	0.33	<0.165	mg/kg	Q00551
Azobenzene	ND	1.65	<0.825	mg/kg	Q00551
Benzo(a)anthracene	ND	0.33	<0.165	mg/kg	Q00551
Benzo(a)pyrene	ND	0.33	<0.165	mg/kg	Q00551
Benzo(b)fluoranthene	ND	0.33	<0.165	mg/kg	Q00551
Benzo(g,h,i)perylene	ND	0.33	<0.165	mg/kg	Q00551
Benzo(k)fluoranthene	ND	0.33	<0.165	mg/kg	Q00551
Benzoic acid	ND	1.65	<0.825	mg/kg	Q00551
Benzyl alcohol	ND	0.66	<0.33	mg/kg	Q00551
Bis(2-chloroethoxy)methane	ND	0.33	<0.165	mg/kg	Q00551
Bis(2-chloroethyl)ether	ND	0.33	<0.165	mg/kg	Q00551
Bis(2-chloroisopropyl)ether	ND	0.33	<0.165	mg/kg	Q00551
Bis(2-ethylhexyl)phthalate	ND	0.33	<0.165	mg/kg	Q00551
Butylbenzylphthalate	ND	0.33	<0.165	mg/kg	Q00551
Chrysene	ND	0.33	<0.165	mg/kg	Q00551
Di-n-butylphthalate	ND	0.33	<0.165	mg/kg	Q00551
Di-n-octylphthalate	ND	0.33	<0.165	mg/kg	Q00551
Dibenzo(a,h)anthracene	ND	0.33	<0.165	mg/kg	Q00551
Dibenzofuran	ND	0.33	<0.165	mg/kg	Q00551



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 c/o Hart and Hickman
 2923 South Tryon St. Ste 100

Project ID: ROW-026
 Project No.: WBS# 34448.1.1

COC Group Number: G1004456

Date/Time Submitted: 10/27/04 8:10

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Diethylphthalate	ND	0.33	<0.165	mg/kg	Q00551
Dimethylphthalate	ND	0.33	<0.165	mg/kg	Q00551
Fluoranthene	ND	0.33	<0.165	mg/kg	Q00551
Fluorene	ND	0.33	<0.165	mg/kg	Q00551
Hexachlorobenzene	ND	0.33	<0.165	mg/kg	Q00551
Hexachlorobutadiene	ND	0.33	<0.165	mg/kg	Q00551
Hexachlorocyclopentadiene	ND	0.33	<0.165	mg/kg	Q00551
Hexachloroethane	ND	0.33	<0.165	mg/kg	Q00551
Indeno(1,2,3-cd)pyrene	ND	0.33	<0.165	mg/kg	Q00551
Isophorone	ND	0.33	<0.165	mg/kg	Q00551
N-Nitrosodi-n-propylamine	ND	0.33	<0.165	mg/kg	Q00551
N-Nitrosodiphenylamine	ND	0.33	<0.165	mg/kg	Q00551
Naphthalene	ND	0.33	<0.165	mg/kg	Q00551
Nitrobenzene	ND	0.33	<0.165	mg/kg	Q00551
Pentachlorophenol	ND	1.65	<0.825	mg/kg	Q00551
Phenanthrene	ND	0.33	<0.165	mg/kg	Q00551
Phenol	ND	0.33	<0.165	mg/kg	Q00551
Pyrene	ND	0.33	<0.165	mg/kg	Q00551

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
1,2,4-Trichlorobenzene	1.23	1.67	mg/kg	74	39 - 98	Q00551
1,4-Dichlorobenzene	1.15	1.67	mg/kg	69	37 - 95	Q00551
2,4-Dinitrotoluene	1.53	1.67	mg/kg	92	56 - 128	Q00551
2-Chlorophenol	1.24	1.67	mg/kg	74	37 - 98	Q00551
4-Chloro-3-methylphenol	1.39	1.67	mg/kg	83	45 - 111	Q00551
4-Nitrophenol	1.68	1.67	mg/kg	100	20 - 157	Q00551
Acenaphthene	1.32	1.67	mg/kg	79	44 - 110	Q00551
N-Nitrosodi-n-propylamine	1.33	1.67	mg/kg	80	38 - 101	Q00551
Pentachlorophenol	1.87	1.67	mg/kg	112	53 - 127	Q00551
Phenol	1.30	1.67	mg/kg	78	34 - 102	Q00551
Pyrene	1.55	1.67	mg/kg	93	54 - 131	Q00551

Matrix Spike	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
102049	1,2,4-Trichlorobenzene	1.11	1.69	mg/kg	66	26 - 97	Q00551
	1,4-Dichlorobenzene	1.11	1.69	mg/kg	66	23 - 92	Q00551
	2,4-Dinitrotoluene	1.45	1.69	mg/kg	86	45 - 127	Q00551
	2-Chlorophenol	1.15	1.69	mg/kg	68	25 - 94	Q00551
	4-Chloro-3-methylphenol	1.27	1.69	mg/kg	75	31 - 113	Q00551



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 2923 South Tryon St. Ste 100

Project ID: ROW-026
 Project No.: WBS# 34448.1.1

COC Group Number: G1004456
 Date/Time Submitted: 10/27/04 8:10

Matrix Spike		Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
Sample ID:							
	4-Nitrophenol	1.50	1.69	mg/kg	89	17 - 150	Q00551
	Acenaphthene	1.26	1.69	mg/kg	74	36 - 107	Q00551
	N-Nitrosodi-n-propylamine	1.21	1.69	mg/kg	71	22 - 105	Q00551
	Pentachlorophenol	1.52	1.69	mg/kg	90	39 - 137	Q00551
	Phenol	1.12	1.69	mg/kg	66	23 - 97	Q00551
	Pyrene	1.44	1.69	mg/kg	85	45 - 133	Q00551

Matrix Spike Duplicate		Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
Sample ID:									
102049	1,2,4-Trichlorobenzene	1.12	1.674	mg/kg	67	26 - 97	1	0 - 37	Q00551
	1,4-Dichlorobenzene	1.06	1.674	mg/kg	63	23 - 92	5	0 - 36	Q00551
	2,4-Dinitrotoluene	1.44	1.674	mg/kg	86	45 - 127	1	0 - 29	Q00551
	2-Chlorophenol	1.13	1.674	mg/kg	68	25 - 94	2	0 - 37	Q00551
	4-Chloro-3-methylphenol	1.22	1.674	mg/kg	73	31 - 113	4	0 - 32	Q00551
	4-Nitrophenol	1.56	1.674	mg/kg	93	17 - 150	4	0 - 32	Q00551
	Acenaphthene	1.19	1.674	mg/kg	71	36 - 107	5	0 - 32	Q00551
	N-Nitrosodi-n-propylamine	1.20	1.674	mg/kg	72	22 - 105	0	0 - 37	Q00551
	Pentachlorophenol	1.41	1.674	mg/kg	84	39 - 137	8	0 - 27	Q00551
	Phenol	1.05	1.674	mg/kg	63	23 - 97	6	0 - 42	Q00551
	Pyrene	1.30	1.674	mg/kg	78	45 - 133	10	0 - 27	Q00551



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Project ID: ROW-026
 Project No.: WBS# 34448.1.1

COC Group Number: G1004456

Date/Time Submitted: 10/27/04 8:10

Extractable Petroleum Hydrocarbons by GC-FID, method MADEP EPH

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
C11-C22 Aromatics	ND	17	<8.5	mg/kg	Q00582
C19-C36 Aliphatics	ND	16	<8	mg/kg	Q00582
C9-C18 Aliphatics	ND	12	<6	mg/kg	Q00582

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
C11-C22 Aromatics	189	170	mg/kg	111	40 - 140	Q00582
C19-C36 Aliphatics	69.5	80	mg/kg	87	40 - 140	Q00582
C9-C18 Aliphatics	30.6	60	mg/kg	51	40 - 140	Q00582

Matrix Spike	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
	102051 C11-C22 Aromatics	184	170	mg/kg	108	40 - 140	Q00582
	C19-C36 Aliphatics	83.4	80	mg/kg	104	40 - 140	Q00582
	C9-C18 Aliphatics	30.4	60	mg/kg	51	40 - 140	Q00582

Matrix Spike Duplicate	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
	102051 C11-C22 Aromatics	208	170	mg/kg	123	40 - 140	13	0 - 50	Q00582
	C19-C36 Aliphatics	81.3	80	mg/kg	102	40 - 140	2	0 - 50	Q00582
	C9-C18 Aliphatics	30.4	60	mg/kg	51	40 - 140	0	0 - 50	Q00582



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Project ID: ROW-026
 Project No.: WBS# 34448.1.1

COC Group Number: G1004456

Date/Time Submitted: 10/27/04 8:10

Volatile Petroleum Hydrocarbons by GC-PID/FID, method MADEP VPH

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
C5-C8 Aliphatics	ND	4	<2	mg/kg	Q00586
C9-C10 Aromatics	ND	1	<0.5	mg/kg	Q00586
C9-C12 Aliphatics	ND	2	<1	mg/kg	Q00586

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
C5-C8 Aliphatics	19.7	20	mg/kg	99	70 - 130	Q00586
C9-C10 Aromatics	4.74	5	mg/kg	95	70 - 130	Q00586
C9-C12 Aliphatics	4.40	5	mg/kg	88	70 - 130	Q00586

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
102700	C5-C8 Aliphatics	18.5	20	mg/kg	93	70 - 130	Q00586
	C9-C10 Aromatics	5.40	5	mg/kg	108	70 - 130	Q00586
	C9-C12 Aliphatics	4.61	5	mg/kg	92	70 - 130	Q00586

Matrix Spike Duplicate

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
102700	C5-C8 Aliphatics	23.2	20	mg/kg	116	70 - 130	23	0 - 25	Q00586
	C9-C10 Aromatics	5.18	5	mg/kg	104	70 - 130	4	0 - 25	Q00586
	C9-C12 Aliphatics	4.75	5	mg/kg	95	70 - 130	3	0 - 25	Q00586



Full Service Analytical & Environmental Solutions

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

Client Company Name: Hart & Hickman PC

Report To/Contact Name: Mike Crouch / Roger Smith

Reporting Address: 2923 S. Tryon St., 500
Charlotte, NC 28203

Phone: 704.526.0007 Fax (Yes/No): (NO)

Email (Yes/No) Email Address: see below

EDD Type: PDF Excel Other

Site Location Name: Row-026

Site Location Physical Address: MT. Pleasant, NC

CHAIN OF CUSTODY RECORD

PAGE 1 of 4 QUOTE # TO ENSURE PROPER BILLING!

Project Name: Row-026 UST Project: (Yes) (No)

Short Hold Analysis: (Yes) (No)

*Please ATTACH any project specific reporting (QC LEVEL III/IV provisions and/or QC Requirements

Invoice To: MC DOT

Address: _____

Purchase Order No./Billing Reference DOT W63 #3448B.L.

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

"Working Days" 6-9 Days Standard 10 days

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

Turnaround time is based on business days, excluding weekends and holidays.

(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

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				
N-side	10/25/04	1630	Soil	Voa/Cg VAG	7	Voa 4oz	None/Ex 1/2	α		102049
W-side	10/25/04	1725	Soil			8oz	NH504/60	α		102050
E-side	10/25/04	1525	Soil					α		102051
S-side	10/26/04	1100	Soil					α		102052
Bottom	10/22/04	1350	Soil					α		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC _____ USACE _____ FL _____ NC _____

Water Chlorinated: YES _____ NO OTHER _____

Sample Iced Upon Collection: YES _____ NO

LAB USE ONLY

Samples INTACT upon arrival? YES NO

Received ON WET ICE? Temp: 10/1

PROPER PRESERVATIVES indicated? YES NO

Received WITHIN HOLDING TIMES? YES NO

CUSTODY SEALS INTACT? YES NO

VOLATILES sealed WITHOUT HEADSPACE? YES NO

PROPER CONTAINERS used? YES NO

PRESS DOWN FIRMLY - 3 COPIES

PRISM USE ONLY

Site Arrival Time: _____

Site Departure Time: _____

Field Tech Fee: _____

Message: _____

Additional Comments: Email Results to: m.crouch@charlottesville.com

Sampler's Signature: Roger A Smith Affiliation: H&H

Received By: (Signature) _____ Date: 10/27/04 Military/Hours: 0810

Received For Prism Laboratories By: [Signature] Date: 10/27/04 Log-in Group No: 0810

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

NPDES: NC SC TN VA WV

GROUNDWATER: NC SC

DRINKING WATER: NC SC

SOLID WASTE: NC SC

RCRA: NC SC

CERCLA: NC SC

LANDFILL: 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)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Prism Laboratories, Inc.
 Laboratory Name
 402
 NC Certification # (Lab)
 Soil
 Sample Matrix

Client Name Hart & Hickman/NC Dept. of Transportation
 Project Name ROW-026
 Site Location Mt. Pleasant, NC

Sample Information and Analytical Results				
Method for Ranges: MADEP VPH	Sample Identification	Collection Option (for soil)*	102049	
VPH Surrogate Standards		Date Collected	10/25/04	1
Aliphatic: 2,5-Dibromotoluene		Date Received	10/27/04	
Aromatic: 2,5-Dibromotoluene		Date Extracted	11/8/04	
		Date Analyzed	11/9/04	
		% Dry Solids	78%	
		Dilution Factor	1	
Hydrocarbon Ranges	Units of Measure	MDL	RL	Blank
C5 - C8 Aliphatics**	mg/kg	1.8	5.1	<4
C9 - C12 Aliphatics**	mg/kg	1.8	2.6	<2
C9 - C10 Aromatics**	mg/kg	0.51	1.3	<1
Sample Surrogate Acceptance Range				70-130%
Aliphatic Surrogate % Recovery - FID				74%
Aromatic Surrogate % Recovery - PID				98%
				131%#

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore™) Option 3 = Field weight of soil
 ** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
 MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank or Trip Blank whichever is higher (indicate type)

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?
Were any significant modifications to the VPH method made?

Yes No
 Yes - Details Attached
 No - Details Attached

#Recovery above the control limits. No VPH detected in this range. No further action was taken.

Page 1 of 4 VPH
 VPH Trip Blank was not submitted to the laboratory.

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Prism Laboratories, Inc.
 Laboratory Name
 402
 NC Certification # (Lab)
 Soil
 Sample Matrix

Client Name Hart & Hickman/NC Dept. of Transportation
 Project Name ROW-026
 Site Location Mt. Pleasant, NC

Sample Information and Analytical Results			
Method for Ranges: MADEP VPH		Sample Identification	102050
		Collection Option (for soil)*	1
		Date Collected	10/25/04
		Date Received	10/27/04
		Date Extracted	11/8/04
		Date Analyzed	11/9/04
		% Dry Solids	82%
		Dilution Factor	1
		Sample Results	
Hydrocarbon Ranges	Units of Measure	MDL	Blank
C5 - C8 Aliphatics**	mg/kg	1.7	<4
C9 - C12 Aliphatics**	mg/kg	1.7	<2
C9 - C10 Aromatics**	mg/kg	0.49	<1
Sample Surrogate Acceptance Range			70-130%
Aliphatic Surrogate % Recovery - FID			74%
Aromatic Surrogate % Recovery - PID			98%
* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore™) Option 3 = Field weight of soil ** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range. MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank or Trip Blank whichever is higher (indicate type)			

Yes No - Details Attached
 No Yes - Details Attached

VPH rev. 11/00
Were all performance/acceptance standards for required QA/QC procedures achieved?
Were any significant modifications to the VPH method made?

Page 2 of 4 VPH VPH Trip Blank was not submitted to the laboratory.

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name Hart & Hickman/NC Dept. of Transportation Prism Laboratories, Inc.
 Project Name ROW-026 Laboratory Name 402
 Site Location Mt. Pleasant, NC NC Certification # (Lab) Soil
 Sample Matrix

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification	102052	
		Collection Option (for soil)*	1	
VPH Surrogate Standards		Date Collected	10/25/04	
Aliphatic: 2,5-Dibromotoluene		Date Received	10/27/04	
Aromatic: 2,5-Dibromotoluene		Date Extracted	11/8/04	
		Date Analyzed	11/9/04	
		% Dry Solids	73%	
		Dilution Factor	1	
Hydrocarbon Ranges	Units of Measure	MDL	RL	Blank
C5 - C8 Aliphatics**	mg/kg	1.9	5.5	<4
C9 - C12 Aliphatics**	mg/kg	1.9	2.7	<2
C9 - C10 Aromatics**	mg/kg	0.55	1.4	<1
Sample Surrogate Acceptance Range				70-130%
Aliphatic Surrogate % Recovery - FID				74%
Aromatic Surrogate % Recovery - PID				98%
				70-130%
				72%
				95%

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore™) Option 3 = Field weight of soil
 ** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
 MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank or Trip Blank whichever is higher (indicate type)

VPH rev. 11/00
 Were all performance/acceptance standards for required QA/QC procedures achieved? Yes No - Details Attached
 Were any significant modifications to the VPH method made? No Yes - Details Attached

VPH Trip Blank was not submitted to the laboratory.

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name Hart & Hickman/NC Dept. of Transportation Prism Laboratories, Inc.
 Project Name ROW-026 Laboratory Name 402
 Site Location Mt. Pleasant, NC NC Certification # (Lab) Soil
 Sample Matrix

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification	102052		
VPH Surrogate Standards		Collection Option (for soil)*	1		
Aliphatic: 2,5-Dibromotoluene		Date Collected	10/26/04		
Aromatic: 2,5-Dibromotoluene		Date Received	10/27/04		
		Date Extracted	11/8/04		
		Date Analyzed	11/9/04		
		% Dry Solids	76%		
		Dilution Factor	1		
Hydrocarbon Ranges	Units of Measure	MDL	RL	Blank	Sample Results
C5 - C8 Aliphatics**	mg/kg	1.9	5.3	<4	<5.3
C9 - C12 Aliphatics**	mg/kg	1.9	2.6	<2	<2.6
C9 - C10 Aromatics**	mg/kg	0.53	1.3	<1	<1.3
Sample Surrogate Acceptance Range				70-130%	70-130%
Aliphatic Surrogate % Recovery - FID				74%	76%
Aromatic Surrogate % Recovery - PID				98%	119%

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore™) Option 3 = Field weight of soil
 ** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
 MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank or Trip Blank whichever is higher (indicate type)

Yes No - Details Attached
 No Yes - Details Attached

VPH rev. 11/00
 Were all performance/acceptance standards for required QA/QC procedures achieved?
 Were any significant modifications to the VPH method made?

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name Hart & Hickman/NC Dept. of Transportation Prism Laboratories, Inc
 Project Name ROW-026 Laboratory Name 402
 Site Location Mt. Pleasant, NC NC Certification # (Lab) Soil
 Sample Matrix

Sample Information and Analytical Results

Method for Ranges: MADEP EPH	Sample Identification	102049	Date Collected	10/25/04	
EPH Surrogate Standards			Date Received	10/27/04	
Aliphatic: 1-Chloro-octadecane			Date Analyzed	10/31/04	
Aromatic: o-Terphenyl			% Dry Solids	78%	
EPH Fractionation Surrogates			Dilution Factor	1	
#1: 2-Bromonaphthalene					
#2: 2-Fluorobiphenyl					
Hydrocarbon Ranges	Units of Measure	MDL	RL	Blank	Sample Results
C9 - C18 Aliphatics*	mg/kg	7.7	51	<12	<51
C19 - C36 Aliphatics*	mg/kg	3.9	26	<16	<26
C11 - C22 Aromatics*	mg/kg	9.0	26	<17	<26
Sample Surrogate Acceptance Range				40-140%	40-140%
Aliphatic Surrogate % Recovery				112%	58%
Aromatic Surrogate % Recovery				123%	119%
Fractionation Surrogate Acceptance Range				40-140%	40-140%
Fractionation Surrogate #1 % Recovery				134%	111%
Fractionation Surrogate #2 % Recovery				123%	137%

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
 MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank

EPH rev. 11/00
 Were all performance/acceptance standards for required QA/QC procedures achieved? Yes No
 Was blank correction applied as a significant modification of the method? Yes No
 Were any significant modifications to the EPH method made? Yes No

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name Hart & Hickman/NC Dept. of Transportation Laboratory Name Prism Laboratories, Inc
 Project Name ROW-026 NC Certification # (Lab) 402
 Site Location Mt. Pleasant, NC Sample Matrix Soil

Sample Information and Analytical Results			
Method for Ranges: MADEP EPH	Sample Identification	Date Collected	102050
EPH Surrogate Standards		10/25/04	
Aliphatic: 1-Chloro-octadecane		10/27/04	
Aromatic: o-Terphenyl		10/28/04	
EPH Fractionation Surrogates		10/31/04	
#1: 2-Bromonaphthalene		82%	
#2: 2-Fluorobiphenyl		1	
Hydrocarbon Ranges	Units of Measure	MDL	Blank
C9 - C18 Aliphatics*	mg/kg	7.3	<12
C19 - C36 Aliphatics*	mg/kg	3.7	<16
C11 - C22 Aromatics*	mg/kg	8.5	<17
Sample Surrogate Acceptance Range			Sample Results
Aliphatic Surrogate % Recovery			<49
Aromatic Surrogate % Recovery			<24
Fractionation Surrogate Acceptance Range			<24
Fractionation Surrogate #1 % Recovery			40-140%
Fractionation Surrogate #2 % Recovery			81%
			85%
			40-140%
			102%
			108%

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
 MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank

Yes No - Details Attached
 Yes No - Details Attached
 No Yes - Details Attached

Were all performance/acceptance standards for required QA/QC procedures achieved?
 Was blank correction applied as a significant modification of the method?
 Were any significant modifications to the EPH method made?

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name Hart & Hickman/NC Dept. of Transportation Laboratory Name Prism Laboratories, Inc
 Project Name ROW-026 NC Certification # (Lab) 402
 Site Location Mt. Pleasant, NC Sample Matrix Soil

Sample Information and Analytical Results			
Method for Ranges: MADEP EPH		Sample Identification	
EPH Surrogate Standards		Date Collected	102051
Aliphatic: 1-Chloro-octadecane		Date Received	10/25/04
Aromatic: o-Terphenyl		Date Extracted	10/27/04
EPH Fractionation Surrogates		Date Analyzed	10/30/04
#1: 2-Bromonaphthalene		% Dry Solids	73%
#2: 2-Fluorobiphenyl		Dilution Factor	1
Hydrocarbon Ranges	Units of Measure	MDL	Blank
C9 - C18 Aliphatics*	mg/kg	8.2	<12
C19 - C36 Aliphatics*	mg/kg	4.1	<16
C11 - C22 Aromatics*	mg/kg	9.6	<17
Sample Surrogate Acceptance Range		RL	Sample Results
Aliphatic Surrogate % Recovery		55	<55
Aromatic Surrogate % Recovery		27	<27
Fractionation Surrogate Acceptance Range		27	<27
Fractionation Surrogate #1 % Recovery			40-140%
Fractionation Surrogate #2 % Recovery			87%
* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.			122%
IMDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank			40-140%
			91%
			96%

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes No - Details Attached
 Was blank correction applied as a significant modification of the method? Yes No
 Were any significant modifications to the EPH method made? No Yes - Details Attached

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name Hart & Hickman/NC Dept. of Transportation Laboratory Name Prism Laboratories, Inc
 Project Name ROW-026 NC Certification # (Lab) 402
 Site Location Mt. Pleasant, NC Sample Matrix Soil

Sample Information and Analytical Results

Method for Ranges: MADEP EPH	Sample Identification	Date Collected	Date Received	Date Analyzed
EPH Surrogate Standards		10/25/04	10/26/04	10/31/04
Aliphatic: 1-Chloro-octadecane				75%
Aromatic: o-Terphenyl				1
EPH Fractionation Surrogates				
#1: 2-Bromonaphthalene				
#2: 2-Fluorobiphenyl				
Hydrocarbon Ranges	Units of Measure	MDL	RL	Blank
C9 - C18 Aliphatics*	mg/kg	7.9	53	<12
C19 - C36 Aliphatics*	mg/kg	4.0	26	<16
C11 - C22 Aromatics*	mg/kg	9.3	26	<17
Sample Surrogate Acceptance Range				Sample Results
Aliphatic Surrogate % Recovery				<53
Aromatic Surrogate % Recovery				78
Fractionation Surrogate Acceptance Range				<26
Fractionation Surrogate #1 % Recovery				40-140%
Fractionation Surrogate #2 % Recovery				65%
				129%
				40-140%
				94%
				110%

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
 MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?

Was blank correction applied as a significant modification of the method ?

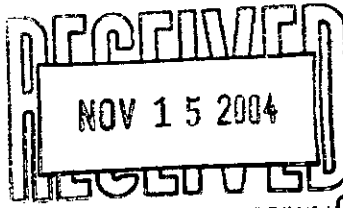
Were any significant modifications to the EPH method made?

Yes No - Details Attached
 Yes No
 No Yes - Details Attached

Case Narrative

Date: 11/10/04

Company: NC Dept. of Transportation
c/o Hart & Hickman
Contact: Mike Crouch
Address: 2923 S. Tryon St. Ste 100
Charlotte, NC 28203



Client Project ID: ROW-026
Prism COC Group No: G1004455

The attached Laboratory Report contains the analytical results for the project identified above and includes Quality Control Data and a Chain-of-Custody copy.

Data qualifiers are flagged individually on each sample. A Key Reference for the data qualifiers appears at the bottom of this page.

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

Data Reviewed by: Robbi A. Jones
Signature: *Robbi A. Jones*
Review Date: 11/10/04

Project Manager: Angela D. Overcash
Signature: *Paul J. Dillard for Angela Overcash*
Approval Date: 11/10/04

Data Qualifier Key Reference:

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

Note: This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road, P. O. Box 240543, Charlotte, NC 28224-0403
Phone: 704/529-6364 Toll Free: 800/529-6364 Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735
 FL Certification No. E87519

Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: Bottom
 Prism Sample ID: 102048
 COC Group: G1004455
 Time Collected: 10/26/04 13:50
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	81.7	%			1	SM2540 G	10/28/04 10:10	dobryan	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	5.84	g			1	5035	10/27/04 0:00	lbrown	
Weight Bisulfate 2	6.53	g			1	5035	10/27/04 0:00	lbrown	
Weight Methanol	6.08	g			1	5035	10/27/04 0:00	lbrown	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0052	0.00086	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,1,1,2-Tetrachloroethane	BRL	mg/kg	0.0052	0.00064	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,1,2-Trichloroethane	BRL	mg/kg	0.0052	0.0005	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,1-Dichloroethane	BRL	mg/kg	0.0052	0.0010	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,1-Dichloroethene	BRL	mg/kg	0.0052	0.00078	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,1-Dichloropropene	BRL	mg/kg	0.0052	0.0009	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0052	0.0037	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,2,3-Trichloropropane	BRL	mg/kg	0.0052	0.00027	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0052	0.0036	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0052	0.0038	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0052	0.00052	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,2-Dichlorobenzene	BRL	mg/kg	0.0052	0.0025	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,2-Dichloroethane	BRL	mg/kg	0.0052	0.0013	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,2-Dichloropropane	BRL	mg/kg	0.0052	0.0012	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0052	0.0039	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,3-Dichlorobenzene	BRL	mg/kg	0.0052	0.0030	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,3-Dichloropropane	BRL	mg/kg	0.0052	0.00093	1	8260B	10/29/04 16:41	kcampigotto	Q00500
1,4-Dichlorobenzene	BRL	mg/kg	0.0052	0.0024	1	8260B	10/29/04 16:41	kcampigotto	Q00500
2,2-Dichloropropane	BRL	mg/kg	0.0052	0.00094	1	8260B	10/29/04 16:41	kcampigotto	Q00500
2-Chlorotoluene	BRL	mg/kg	0.0052	0.0026	1	8260B	10/29/04 16:41	kcampigotto	Q00500



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735
 FL Certification No. E87519

Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: Bottom
 Prism Sample ID: 102048
 COC Group: G1004455
 Time Collected: 10/26/04 13:50
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.052	0.00066	1	8260B	10/29/04 16:41	kcampigotto	Q00500
4-Chlorotoluene	BRL	mg/kg	0.0052	0.0027	1	8260B	10/29/04 16:41	kcampigotto	Q00500
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.052	0.00095	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Acetone	0.025 J	mg/kg	0.052	0.0053	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Benzene	BRL	mg/kg	0.0031	0.0010	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Bromobenzene	BRL	mg/kg	0.0052	0.00074	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Bromochloromethane	BRL	mg/kg	0.0052	0.00086	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Bromodichloromethane	BRL	mg/kg	0.0052	0.00065	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Bromoform	BRL	mg/kg	0.0052	0.00085	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Bromomethane	BRL	mg/kg	0.010	0.00083	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Carbon tetrachloride	BRL	mg/kg	0.0052	0.00081	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Chlorobenzene	BRL	mg/kg	0.0052	0.0009	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Chlorodibromomethane	BRL	mg/kg	0.0052	0.0010	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Chloroethane	BRL	mg/kg	0.010	0.0013	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Chloroform	BRL	mg/kg	0.0052	0.00065	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Chloromethane	BRL	mg/kg	0.0052	0.00051	1	8260B	10/29/04 16:41	kcampigotto	Q00500
cis-1,2-Dichloroethene	BRL	mg/kg	0.0052	0.00091	1	8260B	10/29/04 16:41	kcampigotto	Q00500
cis-1,3-Dichloropropene	BRL	mg/kg	0.0052	0.0012	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Dichlorodifluoromethane	BRL	mg/kg	0.0052	0.00066	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Ethylbenzene	BRL	mg/kg	0.0052	0.0020	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Isopropyl ether (IPE)	BRL	mg/kg	0.0052	0.0010	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Isopropylbenzene	0.0035 J	mg/kg	0.0052	0.0035	1	8260B	10/29/04 16:41	kcampigotto	Q00500
m,p-Xylenes	BRL	mg/kg	0.010	0.0043	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.10	0.0020	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.010	0.00062	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Methylene chloride	BRL	mg/kg	0.0052	0.0013	1	8260B	10/29/04 16:41	kcampigotto	Q00500
n-Butylbenzene	BRL	mg/kg	0.0052	0.0048	1	8260B	10/29/04 16:41	kcampigotto	Q00500
n-Propylbenzene	BRL	mg/kg	0.0052	0.00041	1	8260B	10/29/04 16:41	kcampigotto	Q00500



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735
 FL Certification No. E87519

Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: Bottom
 Prism Sample ID: 102048
 COC Group: G1004455
 Time Collected: 10/26/04 13:50
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Naphthalene	BRL	mg/kg	0.010	0.0021	1	8260B	10/29/04 16:41	kcampigotto	Q00500
o-Xylene	BRL	mg/kg	0.0052	0.0017	1	8260B	10/29/04 16:41	kcampigotto	Q00500
p-Isopropyltoluene	BRL	mg/kg	0.0052	0.0047	1	8260B	10/29/04 16:41	kcampigotto	Q00500
sec-Butylbenzene	BRL	mg/kg	0.0052	0.0050	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Styrene	BRL	mg/kg	0.0052	0.0013	1	8260B	10/29/04 16:41	kcampigotto	Q00500
tert-Butylbenzene	BRL	mg/kg	0.0052	0.0048	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Tetrachloroethene	BRL	mg/kg	0.0052	0.0020	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Toluene	BRL	mg/kg	0.0052	0.0010	1	8260B	10/29/04 16:41	kcampigotto	Q00500
trans-1,2-Dichloroethene	BRL	mg/kg	0.0052	0.00099	1	8260B	10/29/04 16:41	kcampigotto	Q00500
trans-1,3-Dichloropropene	BRL	mg/kg	0.0052	0.0012	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Trichloroethene	BRL	mg/kg	0.0052	0.0010	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Trichlorofluoromethane	BRL	mg/kg	0.0052	0.00091	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Vinyl acetate	BRL	mg/kg	0.026	0.00071	1	8260B	10/29/04 16:41	kcampigotto	Q00500
Vinyl chloride	BRL	mg/kg	0.0052	0.00064	1	8260B	10/29/04 16:41	kcampigotto	Q00500

Surrogate	% Recovery	Control Limits
Toluene-d8	92	81 - 128
Dibromofluoromethane	117	67 - 143
Bromofluorobenzene	104	77 - 128

Semi-volatile Organic Compounds by GC/MS

1,2,4-Trichlorobenzene	BRL	mg/kg	0.41	0.068	1	8270C	11/02/04 2:57	bpurser	Q00551
1,2-Dichlorobenzene	BRL	mg/kg	0.41	0.056	1	8270C	11/02/04 2:57	bpurser	Q00551
1,3-Dichlorobenzene	BRL	mg/kg	0.41	0.042	1	8270C	11/02/04 2:57	bpurser	Q00551
1,4-Dichlorobenzene	BRL	mg/kg	0.41	0.033	1	8270C	11/02/04 2:57	bpurser	Q00551
2,4,6-Trichlorophenol	BRL	mg/kg	0.41	0.087	1	8270C	11/02/04 2:57	bpurser	Q00551
2,4-Dichlorophenol	BRL	mg/kg	0.41	0.084	1	8270C	11/02/04 2:57	bpurser	Q00551
2,4-Dimethylphenol	BRL	mg/kg	0.41	0.079	1	8270C	11/02/04 2:57	bpurser	Q00551
2,4-Dinitrophenol	BRL	mg/kg	2.0	0.10	1	8270C	11/02/04 2:57	bpurser	Q00551



NC Certification No. 402
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 FL Certification No. E87519

Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: Bottom
 Prism Sample ID: 102048
 COC Group: G1004455
 Time Collected: 10/26/04 13:50
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,4-Dinitrotoluene	BRL	mg/kg	0.41	0.063	1	8270C	11/02/04 2:57	bpurser	Q00551
2,6-Dinitrotoluene	BRL	mg/kg	0.41	0.048	1	8270C	11/02/04 2:57	bpurser	Q00551
2-Chloronaphthalene	BRL	mg/kg	0.41	0.067	1	8270C	11/02/04 2:57	bpurser	Q00551
2-Chlorophenol	BRL	mg/kg	0.41	0.041	1	8270C	11/02/04 2:57	bpurser	Q00551
2-Methylnaphthalene	BRL	mg/kg	0.41	0.069	1	8270C	11/02/04 2:57	bpurser	Q00551
2-Methylphenol	BRL	mg/kg	0.41	0.066	1	8270C	11/02/04 2:57	bpurser	Q00551
2-Nitrophenol	BRL	mg/kg	0.41	0.052	1	8270C	11/02/04 2:57	bpurser	Q00551
3&4-Methylphenol	BRL	mg/kg	0.40	0.064	1	8270C	11/02/04 2:57	bpurser	Q00551
3,3'-Dichlorobenzidine	BRL	mg/kg	0.81	0.13	1	8270C	11/02/04 2:57	bpurser	Q00551
4,6-Dinitro-2-methylphenol	BRL	mg/kg	2.0	0.092	1	8270C	11/02/04 2:57	bpurser	Q00551
4-Bromophenylphenylether	BRL	mg/kg	0.41	0.068	1	8270C	11/02/04 2:57	bpurser	Q00551
4-Chloro-3-methylphenol	BRL	mg/kg	0.82	0.077	1	8270C	11/02/04 2:57	bpurser	Q00551
4-Chloroaniline	BRL	mg/kg	0.41	0.091	1	8270C	11/02/04 2:57	bpurser	Q00551
4-Chlorophenylphenylether	BRL	mg/kg	0.41	0.062	1	8270C	11/02/04 2:57	bpurser	Q00551
4-Nitrophenol	BRL	mg/kg	2.0	0.10	1	8270C	11/02/04 2:57	bpurser	Q00551
Acenaphthene	BRL	mg/kg	0.41	0.078	1	8270C	11/02/04 2:57	bpurser	Q00551
Acenaphthylene	BRL	mg/kg	0.41	0.077	1	8270C	11/02/04 2:57	bpurser	Q00551
Anthracene	BRL	mg/kg	0.41	0.050	1	8270C	11/02/04 2:57	bpurser	Q00551
Azobenzene	BRL	mg/kg	2.0	0.21	1	8270C	11/02/04 2:57	bpurser	Q00551
Benzo(a)anthracene	BRL	mg/kg	0.41	0.081	1	8270C	11/02/04 2:57	bpurser	Q00551
Benzo(a)pyrene	BRL	mg/kg	0.41	0.041	1	8270C	11/02/04 2:57	bpurser	Q00551
Benzo(b)fluoranthene	BRL	mg/kg	0.41	0.055	1	8270C	11/02/04 2:57	bpurser	Q00551
Benzo(g,h,i)perylene	BRL	mg/kg	0.41	0.094	1	8270C	11/02/04 2:57	bpurser	Q00551
Benzo(k)fluoranthene	BRL	mg/kg	0.41	0.048	1	8270C	11/02/04 2:57	bpurser	Q00551
Benzoic acid	BRL	mg/kg	2.0	0.17	1	8270C	11/02/04 2:57	bpurser	Q00551
Benzyl alcohol	BRL	mg/kg	0.82	0.067	1	8270C	11/02/04 2:57	bpurser	Q00551
Bis(2-chloroethoxy)methane	BRL	mg/kg	0.41	0.078	1	8270C	11/02/04 2:57	bpurser	Q00551
Bis(2-chloroethyl)ether	BRL	mg/kg	0.41	0.029	1	8270C	11/02/04 2:57	bpurser	Q00551



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Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: Bottom
 Prism Sample ID: 102048
 COC Group: G1004455
 Time Collected: 10/26/04 13:50
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bis(2-chloroisopropyl)ether	BRL	mg/kg	0.41	0.057	1	8270C	11/02/04 2:57	bpurser	Q00551
Bis(2-ethylhexyl)phthalate	BRL	mg/kg	0.41	0.045	1	8270C	11/02/04 2:57	bpurser	Q00551
Butylbenzylphthalate	BRL	mg/kg	0.41	0.042	1	8270C	11/02/04 2:57	bpurser	Q00551
Chrysene	BRL	mg/kg	0.41	0.077	1	8270C	11/02/04 2:57	bpurser	Q00551
Di-n-butylphthalate	BRL	mg/kg	0.41	0.056	1	8270C	11/02/04 2:57	bpurser	Q00551
Di-n-octylphthalate	BRL	mg/kg	0.41	0.071	1	8270C	11/02/04 2:57	bpurser	Q00551
Dibenzo(a,h)anthracene	BRL	mg/kg	0.41	0.097	1	8270C	11/02/04 2:57	bpurser	Q00551
Dibenzofuran	BRL	mg/kg	0.41	0.076	1	8270C	11/02/04 2:57	bpurser	Q00551
Diethylphthalate	BRL	mg/kg	0.41	0.041	1	8270C	11/02/04 2:57	bpurser	Q00551
Dimethylphthalate	BRL	mg/kg	0.41	0.056	1	8270C	11/02/04 2:57	bpurser	Q00551
Fluoranthene	BRL	mg/kg	0.41	0.050	1	8270C	11/02/04 2:57	bpurser	Q00551
Fluorene	BRL	mg/kg	0.41	0.077	1	8270C	11/02/04 2:57	bpurser	Q00551
Hexachlorobenzene	BRL	mg/kg	0.41	0.060	1	8270C	11/02/04 2:57	bpurser	Q00551
Hexachlorobutadiene	BRL	mg/kg	0.41	0.053	1	8270C	11/02/04 2:57	bpurser	Q00551
Hexachlorocyclopentadiene	BRL	mg/kg	0.41	0.094	1	8270C	11/02/04 2:57	bpurser	Q00551
Hexachloroethane	BRL	mg/kg	0.41	0.055	1	8270C	11/02/04 2:57	bpurser	Q00551
Indeno(1,2,3-cd)pyrene	BRL	mg/kg	0.41	0.10	1	8270C	11/02/04 2:57	bpurser	Q00551
Isophorone	BRL	mg/kg	0.41	0.076	1	8270C	11/02/04 2:57	bpurser	Q00551
N-Nitrosodi-n-propylamine	BRL	mg/kg	0.41	0.074	1	8270C	11/02/04 2:57	bpurser	Q00551
N-Nitrosodiphenylamine	BRL	mg/kg	0.41	0.060	1	8270C	11/02/04 2:57	bpurser	Q00551
Naphthalene	BRL	mg/kg	0.41	0.057	1	8270C	11/02/04 2:57	bpurser	Q00551
Nitrobenzene	BRL	mg/kg	0.41	0.074	1	8270C	11/02/04 2:57	bpurser	Q00551
Pentachlorophenol	BRL	mg/kg	2.0	0.053	1	8270C	11/02/04 2:57	bpurser	Q00551
Phenanthrene	BRL	mg/kg	0.41	0.046	1	8270C	11/02/04 2:57	bpurser	Q00551
Phenol	BRL	mg/kg	0.41	0.050	1	8270C	11/02/04 2:57	bpurser	Q00551
Pyrene	BRL	mg/kg	0.41	0.032	1	8270C	11/02/04 2:57	bpurser	Q00551



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Laboratory Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: Bottom
 Prism Sample ID: 102048
 COC Group: G1004455
 Time Collected: 10/26/04 13:50
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Preparation:			29.61	g /	1 mL	3550B	11/01/04 9:15	dpope	P11055

Surrogate	% Recovery	Control Limits
Terphenyl-d14	69	41 - 136
Phenol-d5	45	13 - 95
Nitrobenzene-d5	47	14 - 103
2-Fluorophenol	44	14 - 89
2-Fluorobiphenyl	53	21 - 108
2,4,6-Tribromophenol	58	25 - 123

Extractable Petroleum Hydrocarbons by GC-FID

C11-C22 Aromatics	BRL	mg/kg	24	8.6	1	MADEP EPH	10/31/04 5:01	grappaccioli	Q00582
C19-C36 Aliphatics	BRL	mg/kg	24	3.7	1	MADEP EPH	10/31/04 5:01	grappaccioli	Q00582
C9-C18 Aliphatics	BRL	mg/kg	49	7.3	1	MADEP EPH	10/31/04 5:01	grappaccioli	Q00582
Sample Preparation:			10.12	g /	2 mL	EPH	10/28/04 8:00	dpope	P11039

Surrogate	% Recovery	Control Limits
o-Terphenyl	111	40 - 140
2-Fluorobiphenyl	56	40 - 140
2-Bromonaphthalene	76	40 - 140
1-Chloro-octadecane	122	40 - 140

Volatile Petroleum Hydrocarbons by GC-PID/FID

C5-C8 Aliphatics	BRL	mg/kg	4.9	1.7	1	MADEP VPH	11/09/04 19:47	erussell	Q00586
C9-C10 Aromatics	BRL	mg/kg	1.2	0.49	1	MADEP VPH	11/09/04 19:47	erussell	Q00586
C9-C12 Aliphatics	BRL	mg/kg	2.4	1.7	1	MADEP VPH	11/09/04 19:47	erussell	Q00586



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Project ID: ROW-026
 Project No.: WBS# 34448.1.1
 Sample Matrix: Soil

Client Sample ID: Bottom
 Prism Sample ID: 102048
 COC Group: G1004455
 Time Collected: 10/26/04 13:50
 Time Submitted: 10/27/04 8:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Surrogate	% Recovery	Control Limits
2,5-Dibromotoluene-PID	93	70 - 130
2,5-Dibromotoluene-FID	71	70 - 130

Sample Weight Determination

Weight 1	17.68	g	1	MADEP VPH	10/27/04 0:00	lbrown
Weight 2	19.70	g	1	MADEP VPH	10/27/04 0:00	lbrown

Sample Comment(s):

All results are reported on a dry-weight basis
 BRL = Below Reporting Limit
 J = Estimated value between the Reporting Limit and the MDL

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
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Level II QC Report

11/10/04

North Carolina Department of
 Transportation
 Attn: Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100

Project ID: ROW-026
 Project No.: WBS# 34448.1.1

COC Group Number: G1004455
 Date/Time Submitted: 10/27/04 8:10

Volatile Organic Compounds by GC/MS, method 8260B

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,1,1-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q00500
1,1,2,2-Tetrachloroethane	ND	0.005	<0.0025	mg/kg	Q00500
1,1,2-Trichloroethane	ND	0.005	<0.0025	mg/kg	Q00500
1,1-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q00500
1,1-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q00500
1,1-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q00500
1,2,3-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q00500
1,2,3-Trichloropropane	ND	0.005	<0.0025	mg/kg	Q00500
1,2,4-Trichlorobenzene	ND	0.005	<0.0025	mg/kg	Q00500
1,2,4-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q00500
1,2-Dibromoethane (EDB)	ND	0.005	<0.0025	mg/kg	Q00500
1,2-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q00500
1,2-Dichloroethane	ND	0.005	<0.0025	mg/kg	Q00500
1,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q00500
1,3,5-Trimethylbenzene	ND	0.005	<0.0025	mg/kg	Q00500
1,3-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q00500
1,3-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q00500
1,4-Dichlorobenzene	ND	0.005	<0.0025	mg/kg	Q00500
2,2-Dichloropropane	ND	0.005	<0.0025	mg/kg	Q00500
2-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q00500
2-Hexanone	ND	0.05	<0.025	mg/kg	Q00500
4-Chlorotoluene	ND	0.005	<0.0025	mg/kg	Q00500
4-Methyl-2-pentanone (MIBK)	ND	0.05	<0.025	mg/kg	Q00500
Acetone	ND	0.05	<0.025	mg/kg	Q00500
Benzene	ND	0.003	<0.0015	mg/kg	Q00500
Bromobenzene	ND	0.005	<0.0025	mg/kg	Q00500
Bromochloromethane	ND	0.005	<0.0025	mg/kg	Q00500
Bromodichloromethane	ND	0.005	<0.0025	mg/kg	Q00500
Bromoform	ND	0.005	<0.0025	mg/kg	Q00500
Bromomethane	ND	0.01	<0.005	mg/kg	Q00500
Carbon tetrachloride	ND	0.005	<0.0025	mg/kg	Q00500
Chlorobenzene	ND	0.005	<0.0025	mg/kg	Q00500
Chlorodibromomethane	ND	0.005	<0.0025	mg/kg	Q00500
Chloroethane	ND	0.01	<0.005	mg/kg	Q00500
Chloroform	ND	0.005	<0.0025	mg/kg	Q00500
Chloromethane	ND	0.005	<0.0025	mg/kg	Q00500
cis-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q00500
cis-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q00500
Dichlorodifluoromethane	ND	0.005	<0.0025	mg/kg	Q00500
Ethylbenzene	ND	0.005	<0.0025	mg/kg	Q00500
Isopropyl ether (IPE)	ND	0.005	<0.0025	mg/kg	Q00500
Isopropylbenzene	ND	0.005	<0.0025	mg/kg	Q00500



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Level II QC Report

11/10/04

North Carolina Department of
 Transportation
 Attn Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100

Project ID: ROW-026
 Project No.: WBS# 34448.1.1

COC Group Number: G1004455
 Date/Time Submitted: 10/27/04 8:10

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
m,p-Xylenes	ND	0.01	<0.005	mg/kg	Q00500
Methyl ethyl ketone (MEK)	ND	0.1	<0.05	mg/kg	Q00500
Methyl t-butyl ether (MTBE)	ND	0.01	<0.005	mg/kg	Q00500
Methylene chloride	ND	0.005	<0.0025	mg/kg	Q00500
n-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q00500
n-Propylbenzene	ND	0.005	<0.0025	mg/kg	Q00500
Naphthalene	ND	0.01	<0.005	mg/kg	Q00500
o-Xylene	ND	0.005	<0.0025	mg/kg	Q00500
p-Isopropyltoluene	ND	0.005	<0.0025	mg/kg	Q00500
sec-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q00500
Styrene	ND	0.005	<0.0025	mg/kg	Q00500
tert-Butylbenzene	ND	0.005	<0.0025	mg/kg	Q00500
Tetrachloroethene	ND	0.005	<0.0025	mg/kg	Q00500
Toluene	ND	0.005	<0.0025	mg/kg	Q00500
trans-1,2-Dichloroethene	ND	0.005	<0.0025	mg/kg	Q00500
trans-1,3-Dichloropropene	ND	0.005	<0.0025	mg/kg	Q00500
Trichloroethene	ND	0.005	<0.0025	mg/kg	Q00500
Trichlorofluoromethane	ND	0.005	<0.0025	mg/kg	Q00500
Vinyl chloride	ND	0.005	<0.0025	mg/kg	Q00500

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
1,1-Dichloroethene	47.8	50	µg/kg	96	57 - 122	Q00500
Benzene	50.9	50	µg/kg	102	62 - 119	Q00500
Chlorobenzene	50.3	50	µg/kg	101	61 - 124	Q00500
Toluene	53.8	50	µg/kg	108	57 - 122	Q00500
Trichloroethene	52.9	50	µg/kg	106	59 - 129	Q00500

Matrix Spike	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
1,1-Dichloroethene	102185	47.4	50	µg/kg	95	44 - 140	Q00500
Benzene		44.2	50	µg/kg	88	46 - 136	Q00500
Chlorobenzene		40.9	50	µg/kg	82	47 - 135	Q00500
Toluene		45.7	50	µg/kg	91	47 - 136	Q00500
Trichloroethene		44.2	50	µg/kg	88	45 - 141	Q00500

Matrix Spike Duplicate	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
1,1-Dichloroethene	102185	45.4	50	µg/kg	91	44 - 140	4	0 - 23	Q00500

Level II QC Report

11/10/04



NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735
FL Certification No. E87519

COC Group Number: G1004455

Date/Time Submitted: 10/27/04 8:10

North Carolina Department of
Transportation
Attn Mike Crouch
c/o Hart and Hickman
2923 South Tryon St. Ste 100

Project ID: ROW-026
Project No.: WBS# 34448.1.1

Matrix Spike Duplicate		Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
Sample ID:									
	Benzene	44.8	50	µg/kg	90	46 - 136	1	0 - 22	Q00500
	Chlorobenzene	41.4	50	µg/kg	83	47 - 135	1	0 - 22	Q00500
	Toluene	45.7	50	µg/kg	91	47 - 136	0	0 - 22	Q00500
	Trichloroethene	45.0	50	µg/kg	90	45 - 141	2	0 - 23	Q00500

Level II QC Report

11/10/04



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North Carolina Department of
 Transportation
 Attn Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100

Project ID: ROW-026
 Project No.: WBS# 34448.1.1

COC Group Number: G1004455
 Date/Time Submitted: 10/27/04 8:10

Semi-volatile Organic Compounds by GC/MS, method 8270C

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
1,2,4-Trichlorobenzene	ND	0.33	<0.165	mg/kg	Q00551
1,2-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q00551
1,3-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q00551
1,4-Dichlorobenzene	ND	0.33	<0.165	mg/kg	Q00551
2,4,6-Trichlorophenol	ND	0.33	<0.165	mg/kg	Q00551
2,4-Dichlorophenol	ND	0.33	<0.165	mg/kg	Q00551
2,4-Dimethylphenol	ND	0.33	<0.165	mg/kg	Q00551
2,4-Dinitrophenol	ND	1.65	<0.825	mg/kg	Q00551
2,4-Dinitrotoluene	ND	0.33	<0.165	mg/kg	Q00551
2,6-Dinitrotoluene	ND	0.33	<0.165	mg/kg	Q00551
2-Chloronaphthalene	ND	0.33	<0.165	mg/kg	Q00551
2-Chlorophenol	ND	0.33	<0.165	mg/kg	Q00551
2-Methylnaphthalene	ND	0.33	<0.165	mg/kg	Q00551
2-Methylphenol	ND	0.33	<0.165	mg/kg	Q00551
2-Nitrophenol	ND	0.33	<0.165	mg/kg	Q00551
4,6-Dinitro-2-methylphenol	ND	1.65	<0.825	mg/kg	Q00551
4-Bromophenylphenylether	ND	0.33	<0.165	mg/kg	Q00551
4-Chloro-3-methylphenol	ND	0.66	<0.33	mg/kg	Q00551
4-Chloroaniline	ND	0.33	<0.165	mg/kg	Q00551
4-Chlorophenylphenylether	ND	0.33	<0.165	mg/kg	Q00551
4-Nitrophenol	ND	1.65	<0.825	mg/kg	Q00551
Acenaphthene	ND	0.33	<0.165	mg/kg	Q00551
Acenaphthylene	ND	0.33	<0.165	mg/kg	Q00551
Anthracene	ND	0.33	<0.165	mg/kg	Q00551
Azobenzene	ND	1.65	<0.825	mg/kg	Q00551
Benzo(a)anthracene	ND	0.33	<0.165	mg/kg	Q00551
Benzo(a)pyrene	ND	0.33	<0.165	mg/kg	Q00551
Benzo(b)fluoranthene	ND	0.33	<0.165	mg/kg	Q00551
Benzo(g,h,i)perylene	ND	0.33	<0.165	mg/kg	Q00551
Benzo(k)fluoranthene	ND	0.33	<0.165	mg/kg	Q00551
Benzoic acid	ND	1.65	<0.825	mg/kg	Q00551
Benzyl alcohol	ND	0.66	<0.33	mg/kg	Q00551
Bis(2-chloroethoxy)methane	ND	0.33	<0.165	mg/kg	Q00551
Bis(2-chloroethyl)ether	ND	0.33	<0.165	mg/kg	Q00551
Bis(2-chloroisopropyl)ether	ND	0.33	<0.165	mg/kg	Q00551
Bis(2-ethylhexyl)phthalate	ND	0.33	<0.165	mg/kg	Q00551
Butylbenzylphthalate	ND	0.33	<0.165	mg/kg	Q00551
Chrysene	ND	0.33	<0.165	mg/kg	Q00551
Di-n-butylphthalate	ND	0.33	<0.165	mg/kg	Q00551
Di-n-octylphthalate	ND	0.33	<0.165	mg/kg	Q00551
Dibenzo(a,h)anthracene	ND	0.33	<0.165	mg/kg	Q00551
Dibenzofuran	ND	0.33	<0.165	mg/kg	Q00551



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735
 FL Certification No. E87519

Level II QC Report

11/10/04

North Carolina Department of
 Transportation
 Attn Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100

Project ID: ROW-026
 Project No.: WBS# 34448.1.1

COC Group Number: G1004455

Date/Time Submitted: 10/27/04 8:10

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Diethylphthalate	ND	0.33	<0.165	mg/kg	Q00551
Dimethylphthalate	ND	0.33	<0.165	mg/kg	Q00551
Fluoranthene	ND	0.33	<0.165	mg/kg	Q00551
Fluorene	ND	0.33	<0.165	mg/kg	Q00551
Hexachlorobenzene	ND	0.33	<0.165	mg/kg	Q00551
Hexachlorobutadiene	ND	0.33	<0.165	mg/kg	Q00551
Hexachlorocyclopentadiene	ND	0.33	<0.165	mg/kg	Q00551
Hexachloroethane	ND	0.33	<0.165	mg/kg	Q00551
Indeno(1,2,3-cd)pyrene	ND	0.33	<0.165	mg/kg	Q00551
Isophorone	ND	0.33	<0.165	mg/kg	Q00551
N-Nitrosodi-n-propylamine	ND	0.33	<0.165	mg/kg	Q00551
N-Nitrosodiphenylamine	ND	0.33	<0.165	mg/kg	Q00551
Naphthalene	ND	0.33	<0.165	mg/kg	Q00551
Nitrobenzene	ND	0.33	<0.165	mg/kg	Q00551
Pentachlorophenol	ND	1.65	<0.825	mg/kg	Q00551
Phenanthrene	ND	0.33	<0.165	mg/kg	Q00551
Phenol	ND	0.33	<0.165	mg/kg	Q00551
Pyrene	ND	0.33	<0.165	mg/kg	Q00551

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
1,2,4-Trichlorobenzene	1.23	1.67	mg/kg	74	39 - 98	Q00551
1,4-Dichlorobenzene	1.15	1.67	mg/kg	69	37 - 95	Q00551
2,4-Dinitrotoluene	1.53	1.67	mg/kg	92	56 - 128	Q00551
2-Chlorophenol	1.24	1.67	mg/kg	74	37 - 98	Q00551
4-Chloro-3-methylphenol	1.39	1.67	mg/kg	83	45 - 111	Q00551
4-Nitrophenol	1.68	1.67	mg/kg	100	20 - 157	Q00551
Acenaphthene	1.32	1.67	mg/kg	79	44 - 110	Q00551
N-Nitrosodi-n-propylamine	1.33	1.67	mg/kg	80	38 - 101	Q00551
Pentachlorophenol	1.87	1.67	mg/kg	112	53 - 127	Q00551
Phenol	1.30	1.67	mg/kg	78	34 - 102	Q00551
Pyrene	1.55	1.67	mg/kg	93	54 - 131	Q00551

Matrix Spike	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
102049	1,2,4-Trichlorobenzene	1.11	1.69	mg/kg	66	26 - 97	Q00551
	1,4-Dichlorobenzene	1.11	1.69	mg/kg	66	23 - 92	Q00551
	2,4-Dinitrotoluene	1.45	1.69	mg/kg	86	45 - 127	Q00551
	2-Chlorophenol	1.15	1.69	mg/kg	68	25 - 94	Q00551
	4-Chloro-3-methylphenol	1.27	1.69	mg/kg	75	31 - 113	Q00551



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Level II QC Report

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 Attn Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100

Project ID: ROW-026
 Project No.: WBS# 34448.1.1

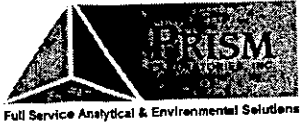
COC Group Number: G1004455
 Date/Time Submitted: 10/27/04 8:10

Matrix Spike		Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
Sample ID:							
	4-Nitrophenol	1.50	1.69	mg/kg	89	17 - 150	Q00551
	Acenaphthene	1.26	1.69	mg/kg	74	36 - 107	Q00551
	N-Nitrosodi-n-propylamine	1.21	1.69	mg/kg	71	22 - 105	Q00551
	Pentachlorophenol	1.52	1.69	mg/kg	90	39 - 137	Q00551
	Phenol	1.12	1.69	mg/kg	66	23 - 97	Q00551
	Pyrene	1.44	1.69	mg/kg	85	45 - 133	Q00551

Matrix Spike Duplicate		Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
Sample ID:									
102049	1,2,4-Trichlorobenzene	1.12	1.674	mg/kg	67	26 - 97	1	0 - 37	Q00551
	1,4-Dichlorobenzene	1.06	1.674	mg/kg	63	23 - 92	5	0 - 36	Q00551
	2,4-Dinitrotoluene	1.44	1.674	mg/kg	86	45 - 127	1	0 - 29	Q00551
	2-Chlorophenol	1.13	1.674	mg/kg	68	25 - 94	2	0 - 37	Q00551
	4-Chloro-3-methylphenol	1.22	1.674	mg/kg	73	31 - 113	4	0 - 32	Q00551
	4-Nitrophenol	1.56	1.674	mg/kg	93	17 - 150	4	0 - 32	Q00551
	Acenaphthene	1.19	1.674	mg/kg	71	36 - 107	5	0 - 32	Q00551
	N-Nitrosodi-n-propylamine	1.20	1.674	mg/kg	72	22 - 105	0	0 - 37	Q00551
	Pentachlorophenol	1.41	1.674	mg/kg	84	39 - 137	8	0 - 27	Q00551
	Phenol	1.05	1.674	mg/kg	63	23 - 97	6	0 - 42	Q00551
	Pyrene	1.30	1.674	mg/kg	78	45 - 133	10	0 - 27	Q00551

Level II QC Report

11/10/04



NC Certification No. 402
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 NC Drinking Water Cert. No. 37735
 FL Certification No. E87519

COC Group Number: G1004455

Date/Time Submitted: 10/27/04 8:10

North Carolina Department of
 Transportation
 Attn. Mike Crouch
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100

Project ID: ROW-026
 Project No.: WBS# 34448.1.1

Extractable Petroleum Hydrocarbons by GC-FID, method MADEP EPH

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
C11-C22 Aromatics	ND	17	<8.5	mg/kg	Q00582
C19-C36 Aliphatics	ND	16	<8	mg/kg	Q00582
C9-C18 Aliphatics	ND	12	<6	mg/kg	Q00582

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
C11-C22 Aromatics	189	170	mg/kg	111	40 - 140	Q00582
C19-C36 Aliphatics	69.5	80	mg/kg	87	40 - 140	Q00582
C9-C18 Aliphatics	30.6	60	mg/kg	51	40 - 140	Q00582

Matrix Spike	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
C11-C22 Aromatics	102051	184	170	mg/kg	108	40 - 140	Q00582
C19-C36 Aliphatics		83.4	80	mg/kg	104	40 - 140	Q00582
C9-C18 Aliphatics		30.4	60	mg/kg	51	40 - 140	Q00582

Matrix Spike Duplicate	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
C11-C22 Aromatics	102051	208	170	mg/kg	123	40 - 140	13	0 - 50	Q00582
C19-C36 Aliphatics		81.3	80	mg/kg	102	40 - 140	2	0 - 50	Q00582
C9-C18 Aliphatics		30.4	60	mg/kg	51	40 - 140	0	0 - 50	Q00582



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Level II QC Report

11/10/04

North Carolina Department of
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 c/o Hart and Hickman
 2923 South Tryon St. Ste 100

Project ID: ROW-026
 Project No.: WBS# 34448.1.1

COC Group Number: G1004455

Date/Time Submitted: 10/27/04 8:10

Volatile Petroleum Hydrocarbons by GC-PID/FID, method MADEP VPH

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
C5-C8 Aliphatics	ND	4	<2	mg/kg	Q00586
C9-C10 Aromatics	ND	1	<0.5	mg/kg	Q00586
C9-C12 Aliphatics	ND	2	<1	mg/kg	Q00586

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
C5-C8 Aliphatics	19.7	20	mg/kg	99	70 - 130	Q00586
C9-C10 Aromatics	4.74	5	mg/kg	95	70 - 130	Q00586
C9-C12 Aliphatics	4.40	5	mg/kg	88	70 - 130	Q00586

Matrix Spike	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
	102700 C5-C8 Aliphatics	18.5	20	mg/kg	93	70 - 130	Q00586
	C9-C10 Aromatics	5.40	5	mg/kg	108	70 - 130	Q00586
	C9-C12 Aliphatics	4.61	5	mg/kg	92	70 - 130	Q00586

Matrix Spike Duplicate	Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
	102700 C5-C8 Aliphatics	23.2	20	mg/kg	116	70 - 130	23	0 - 25	Q00586
	C9-C10 Aromatics	5.18	5	mg/kg	104	70 - 130	4	0 - 25	Q00586
	C9-C12 Aliphatics	4.75	5	mg/kg	95	70 - 130	3	0 - 25	Q00586

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name Hart & Hickman/NC Dept. of Transportation Laboratory Name Prism Laboratories, Inc.
 Project Name ROW-026 NC Certification # (Lab) 402
 Site Location Mt. Pleasant, NC Sample Matrix Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH		Sample Identification	102048
		Collection Option (for soil)*	1
VPH Surrogate Standards		Date Collected	10/26/04
Aliphatic: 2,5-Dibromotoluene		Date Received	10/27/04
Aromatic: 2,5-Dibromotoluene		Date Extracted	11/8/04
		Date Analyzed	11/9/04
		% Dry Solids	82%
		Dilution Factor	1
Hydrocarbon Ranges	Units of Measure	MDL	Blank
C5 - C8 Aliphatics**	mg/kg	1.7	<4
C9 - C12 Aliphatics**	mg/kg	1.7	<2
C9 - C10 Aromatics**	mg/kg	0.49	<1
Sample Surrogate Acceptance Range			70-130%
Aliphatic Surrogate % Recovery - FID			74%
Aromatic Surrogate % Recovery - PID			98%
		Sample Results	Option 3 = Field weight of soil

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore™) Option 3 = Field weight of soil
 ** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
 MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank or Trip Blank whichever is higher (indicate type)

VPH rev. 1/1/00

Were all performance/acceptance standards for required QA/QC procedures achieved?
Were any significant modifications to the VPH method made?

Yes	No - Details Attached
No	Yes - Details Attached

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name Hart & Hickman/NC Dept. of Transportation Prism Laboratories, Inc
 Project Name ROW-026 Laboratory Name 402
 Site Location Mt. Pleasant, NC NC Certification # (Lab) Soil
 Sample Matrix

Sample Information and Analytical Results

Method for Ranges: MADEP EPH	Sample Identification	Sample Results
EPH Surrogate Standards	Date Collected	10/26/04
Aliphatic: 1-Chloro-octadecane	Date Received	10/27/04
Aromatic: o-Terphenyl	Date Extracted	10/28/04
EPH Fractionation Surrogates	Date Analyzed	10/31/04
#1: 2-Bromonaphthalene	% Dry Solids	82%
#2: 2-Fluorobiphenyl	Dilution Factor	1
Hydrocarbon Ranges	MDL	Blank
C9 - C18 Aliphatics*	mg/kg	<12
C19 - C36 Aliphatics*	mg/kg	<16
C11 - C22 Aromatics*	mg/kg	<17
Sample Surrogate Acceptance Range		40-140%
Aliphatic Surrogate % Recovery		112%
Aromatic Surrogate % Recovery		123%
Fractionation Surrogate Acceptance Range		40-140%
Fractionation Surrogate #1 % Recovery		134%
Fractionation Surrogate #2 % Recovery		123%

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
 MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank

EPH rev. 11/00
 Were all performance/acceptance standards for required QA/QC procedures achieved? Yes No
 Was blank correction applied as a significant modification of the method? Yes No
 Were any significant modifications to the EPH method made? Yes No

