INITIAL ABATEMENT ACTION REPORT

NCDOT PARCEL 20
(FORMER MARIE ANTHA THOMAS PROPERTY)
102 HIBRITEN DRIVE
LENOIR, CALDWELL COUNTY, NORTH CAROLINA
STATE PROJECT U-2211-B WBS 34783.1.1

Prepared for:

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

1589 Mail Service Road
Raleigh, North Carolina

MACTEC Project: 6470-10-0270

January 24, 2011

MACTEC

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engineering and constructing a better tomorrow

January 24, 2011

Mr. Ethan Caldwell, P.E., L.G.
Geoenvironmental Project Manager
NCDOT Geotechnical Engineering Department
1589 Mail Service Road
Raleigh, North Carolina 27699

Subject: **Initial Abatement Action Report**
NCDOT Parcel 20 (Former Marie Antha Thomas Property)
102 Hibriten Drive, Lenoir, Caldwell County, North Carolina
MACTEC Project 6470-10-0270
State Project U-2211 B, WBS 34783.1.1

Dear Mr. Caldwell:

MACTEC Engineering and Consulting, Inc. (MACTEC) is pleased to provide this Initial Abatement Action Report for the Underground Storage Tank (UST) located at the North Carolina Department of Transportation (NCDOT) Parcel 20, former Marie Antha Thomas property, in Lenoir, Caldwell County, North Carolina. The report was prepared in a format established in North Carolinas Department of Environment and Natural Resources (NCDENR) "Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement for UST Releases" dated March 1, 2007 (change 3, effective December 1, 2008).

MACTEC appreciates the opportunity to provide our environmental services to the NCDOT. If you should have any questions concerning this report, please contact us at (828) 252-8130.

Sincerely,

MACTEC ENGINEERING AND CONSULTING, INC.

Wm. Kirk Weir
Staff Geologist

Matthew E. Wallace, P.E.
Principal Engineer

WKW/MEW:wkw

MACTEC Engineering and Consulting, Inc.
1308 Patton Avenue, Asheville, NC 28806 • Phone: 828.252.8130 • Fax: 828.251.9690
License Number: NC Corporate Engineering F-0653

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A. Site Information

A.1 Site Identification

Date of Report:	January 24, 2011
Facility ID:	Not Applicable
UST Incident Number:	Not Available / Not assigned
Site Name:	NCDOT Parcel 20 (Former Marie Antha Thomas Property)
Street Address:	102 Hibriten Drive
City/Town:	Lenoir, North Carolina
Zip Code:	28645
County:	Caldwell County
Latitude/Longitude:	35.890721/81.520266
Geographic Data Point:	Approximate center of UST tank pit
Location Method:	USGS Topographical Map: *Lenoir, N.C. – NC. 7.5-Minute Quadrangle*

A.2 Contact Information

UST Owner:	Marie Antha Thomas 102 Hibriten Dr Lenoir, North Carolina 28645
UST Operator:	Former Thomas residence (inactive at time of closure)
Property Owner:	Marie Antha Thomas 102 Hibriten Dr Lenoir, North Carolina 28645 (828) 757-0302
Property Occupant:	Former Thomas residence (unoccupied at time of closure)
Consultant:	MACTEC Engineering and Consulting Inc. 1308 Patton Avenue Asheville, North Carolina 28806 (828) 252-8130
Closure Contractor:	Zebra Environmental and Industrial Services, Inc. P.O. Box 357, 901 East Springfield Road High Point, North Carolina 27261 (336) 434-7750
Analytical Laboratory:	Prism Laboratories, Inc. 449 Springbrook Road Charlotte, North Carolina 28224 (704) 529-6364

A.3 Release Information

Date Discovered:	December 20, 2010

Quantity:	Unknown
Cause:	Unknown
Source:	UST
UST System:	One, 550-gallon (heating oil)

A.4 Certification

I, Matthew E. Wallace, a Professional Engineer/~~Licensed Geologist~~ for, MACTEC Engineering and Consulting, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.

NORTH CAROLINA PROFESSIONAL SEAL 24933 1/24/11 ENGINEER MATTHEW E. WALLACE

MACTEC Engineering and Consulting, Inc. is licensed to practice geology/engineering in North Carolina (North Carolina corporate engineering license No. F-0653).

B. Site History and Characterization

B.1 Site Description

NCDOT Parcel 20, former Thomas property, (site) is located at 102 Hibriten Drive in Lenoir, Caldwell County, North Carolina (Figure 1 and Figure 2). The site contained one residence with a carport, one out-building, grassy areas and an asphalt-paved driveway. The identified UST was located adjacent to the east wall of the residence. The UST was reported to be approximately 550-gallons and utilized for heating oil storage for on-site residential heating.

At the time of UST closure, the structures had been demolished and/or removed from the site. The site consisted primarily of grasses and shrubs with a sloped ground surface to the concrete basement slab of the former residence. Ground surface at the site generally slopes to the south. Natural surface runoff is towards Hibriten Drive SW.

B.2 Site Geology/Hydrology

The site is located in the Inner Piedmont Belt of the Piedmont Physiographic Province. The bedrock in this region consists of mimagtitic granitic gneiss. The site's underlying soils consist of Cecil-Urban land complex (two to eight percent slopes), which typically consist of well drained, sandy to clayey loam.

Site topography indicates that surface water flow is to the southeast towards an unnamed tributary, located approximately 750 feet to the southeast of the UST location. The unnamed tributary flows southwest and discharges into Gunpowder Creek approximately 2,500 feet downstream. Since no major geologic features were identified on or near the site, it is reasonable to infer that the direction of near-surface groundwater flow under static conditions (no pumping interference) approximates the surface topography of the site.

The underlying soil in the tank pit area was observed to be primarily residual reddish brown silty sand from ground surface to approximately 6.5 feet below ground surface (bgs). The soil was observed to be yellowish brown silty sand with some relict rock structure from approximately 6.5 to 7.5 feet bgs. The maximum excavation depth achieved during UST closure was approximately 7.5 feet bgs. Groundwater and/or competent bedrock were not encountered during UST closure activities.

C. Closure Procedure

C.1 Site Preparations

In preparation for the UST closure, North Carolina One Call was contacted to mark the locations of public underground utilities present on the site. A site-specific Health and Safety Plan was prepared to address safety concerns related to the proposed field work at the site.

C.2 Residual Material

The UST closure activities were conducted on December 20, 2010. Prior to UST excavation, the contents of the UST were removed with a vacuum truck (Photograph 1, Appendix B). Approximately 45 gallons of residual material was removed from the UST for off-site transport and disposal. The residual material appeared to be a mixture of petroleum product and water. The interior surface of the UST was then cleaned using pressurized water. The rinsate was removed from the UST with the vacuum truck. Approximately 75 gallons of residual material and rinsate were collected from the UST. The non-hazardous liquid waste was delivered under Material Manifest (Appendix A) to the Zebra Environmental & Industrial Services, Inc. (Zebra) facility in High Point, North Carolina, for disposal.

C.3 UST System Removal

C.3.1 UST Removal

After the residual material was removed from the UST, a backhoe removed approximately one foot of soil, exposing the top of the steel UST. Tank pit backfill material consisting primarily of reddish brown silty sand was excavated along the west side of the UST. The back hoe then lifted the UST from the tank pit. The UST was removed intact including the vent pipe and fill port (Photograph 2, Appendix B).

Visible corrosion, including pitting and holes were observed at the base of the UST during removal (Photographs 3 and 4, Appendix B). After removal from the tank pit, the UST was loaded onto a Zebra vehicle and delivered under Tank Disposal Manifest (Appendix C) to Mountain Recycling, Inc. in Hickory, North Carolina, for recycling/disposal.

C.3.2 Product Line Removal

UST product lines were not observed at time of closure.

C.4 Excavated Material

Excavated material from the tank pit was temporarily stockpiled adjacent to the excavation to the east and south. The material was visually assessed for staining and field-screened with a calibrated photoionization detector (PID) for volatile organic compounds. The stockpiled material did not exhibit elevated PID readings but did exhibit olfactory and visual indications of contamination. The stockpiled soil was loaded onto a Zebra vehicle and delivered under material Manifest (Appendix B) to Soil Remedies, Inc. in Mebane, North Carolina for disposal.

C.5 Site Investigation

C.5.1 Field Screening

A calibrated MiniRae 2000 PID was used to screen material excavated from the tank pit. PID readings ranged from 0 to 20.6 parts per million (ppm) during the removal of the UST system.

C.5.2 Soil Sampling

Soil samples were collected in general accordance with NCDENR's "Guidelines for Site Checks, Tank Closure, and Initial Response and Abatement for UST Releases" (the Guidelines) dated March 1, 2007 (change 3, effective December 1, 2008). Two soil samples were collected from residual soil beneath the mid-line of the UST (SS-01 and SS-02). Due to elevated PID readings of soil/fill material in the tank pit, over-excavation of the tank pit was performed. Six soil samples were collected from the over-excavation and are discussed in Section D of this report. Soil samples were collected using individual single-use five-gram "T-handle" grab samplers and single-use nitrile gloves. The soil samples were given unique, sequential identifiers. Soil samples were collected from base of the tank pit via a backhoe bucket and screened for indications of possible contamination. In order to minimize sample contamination from the bucket, the sample was obtained in the approximate center of the excavated material in the bucket. Soil sample locations are identified on Figure 3.

C.5.3 Sample Handling

The soil samples were placed in an ice-chilled cooler and delivered, via overnight delivery, to Prism Laboratories, Inc (Prism), a North Carolina certified laboratory and submitted for analysis of total petroleum hydrocarbons (TPH) – diesel range organics (DRO) and TPH – gasoline range organics (GRO). The reportable action limit for DRO and GRO as published in the Guidelines is 10 mg/kg.

C.6 Results

One of the two soil samples collected beneath the midline of the UST (SS-01) exhibited a concentration of TPH-DRO of 390 mg/kg, which is greater than NCDENR's reportable action limit of 10 mg/kg. The sample results for DRO and GRO are summarized in Table 1 and the laboratory analytical report and chain-of-custody record are included in Appendix D.

D. Excavation of Contaminated Soil

D.1 Over-excavation

Elevated PID readings were observed in soils at the base of the tank pit. A backhoe was used to over-excavate the UST tank pit and the excavated material was screened with a PID for volatile organic vapors and observed for signs of apparent staining (Photograph 5, Appendix B). The material removed was loaded directly onto a Zebra vehicle. As the over-excavation proceeded in the tank pit, PID readings decreased with depth. Over-excavation of the tank pit continued vertically to a depth of approximately 7.5 feet bgs. Lateral excavation was limited to the north by the abandoned residential well and continued for a distance of approximately two feet to the south. Groundwater and/or competent bedrock were not encountered during over-excavation activities. The stockpiled soil was loaded onto a Zebra vehicle and delivered under material Manifest (Appendix C) to Soil Remedies, Inc. in Mebane, North Carolina.

D.2 Dimensions of Final Excavation

The dimensions of the final excavation were approximately 4 feet by 10.5 feet, with a depth of approximately 7.5 feet bgs. Based on weigh tickets (Appendix A), the amount of contaminated material removed from the excavation was approximately 14.9 tons. Approximate excavation extents are shown on Figure 3.

D.3 Over-Excavation Investigation

D.3.1 Field Screening

A calibrated MiniRae 2000 PID was used to screen material during over-excavation activities. PID readings of over-excavated soil ranged from 0 to 20.6 ppm.

D.3.2 Soil Sampling of Over-Excavation

Post-excavation confirmatory soil samples were collected in general accordance with NCDENR's Guidelines. Six soil samples were collected from the over-excavation in residual soil. Two soil samples were collected from the base of the excavation at approximately 7.5 feet bgs and one from each sidewall at a depth of approximately 7 feet bgs. Soil samples were collected using individual single-use five-gram "T-handle" grab samplers and single-use nitrile gloves. The soil samples were given unique, sequential identifiers. Soil samples were collected from the sidewalls and base of the over-excavation via a backhoe bucket and screened for indications of possible contamination. In order to minimize sample contamination from the bucket, the sample was obtained in the approximate center of the excavated material in the bucket. Soil sample locations are identified on Figure 3.

D.3.3 Sample Handling

Upon collection, the post-excavation soil samples were placed in ice-chilled coolers and delivered, via overnight delivery, to Prism for analysis of TPH–DRO and TPH–GRO. The laboratory was instructed to also analyze the sample if it contained 10 milligrams per kilogram (mg/kg) or greater of either DRO and/or GRO, for volatile organic compounds (VOCs) according to EPA Method 8260, semi-volatile organic compounds (SVOCs) according to EPA Method 8270, and volatile petroleum products (VPHs) and extractable petroleum products (EPHs) according to the MADEP Methods. The reportable action level for DRO and GRO as published in NCDENR's Guidelines is 10 mg/kg.

D.4 Results

Of the six post-excavation, confirmatory soil samples, three soil samples exhibited DRO concentrations greater than 10 mg/kg. The soil sample collected from the east sidewall of the excavation (SS-04) exhibited a DRO concentration of 63 mg/kg. The two soil samples collected from the base of the excavation (SS-07 and SS-08) exhibited DRO concentrations of 16 mg/kg and 18 mg/kg, respectively. DRO and GRO analytical results are shown in Table 1 and the laboratory analytical report and chain-of-custody record are included in Appendix D.

Based on the GRO and DRO results as compared to the NCDENR reportable action level, soil samples SS-04, SS-07 and SS-08 were also analyzed for VOCs, SVOCs, VPHs, and EPHs. The laboratory analytical report indicated SS-04 exhibited concentrations of one VOC and one SVOC above the laboratory reporting limits. SS-04 exhibited a concentration of the VOC naphthalene of 0.014 mg/kg and an approximated concentration of the SVOC phenanthrene of 0.13 mg/kg. The laboratory analytical report and chain-of-custody record are included in Appendix D.

NCDENR was contacted on December 21, 2010 and informed of suspected contamination observations on December 20, 2010. A "24-Hour Release and UST Leak Reporting Form" (UST-61 Form) was submitted to NCDENR on January 4, 2011. Copies of the UST-61 and UST-2, "Site Investigation Report for Permanent Closure or Change-in-Service of UST" form, are included in Appendix E.

D.5 Backfilling of Excavations

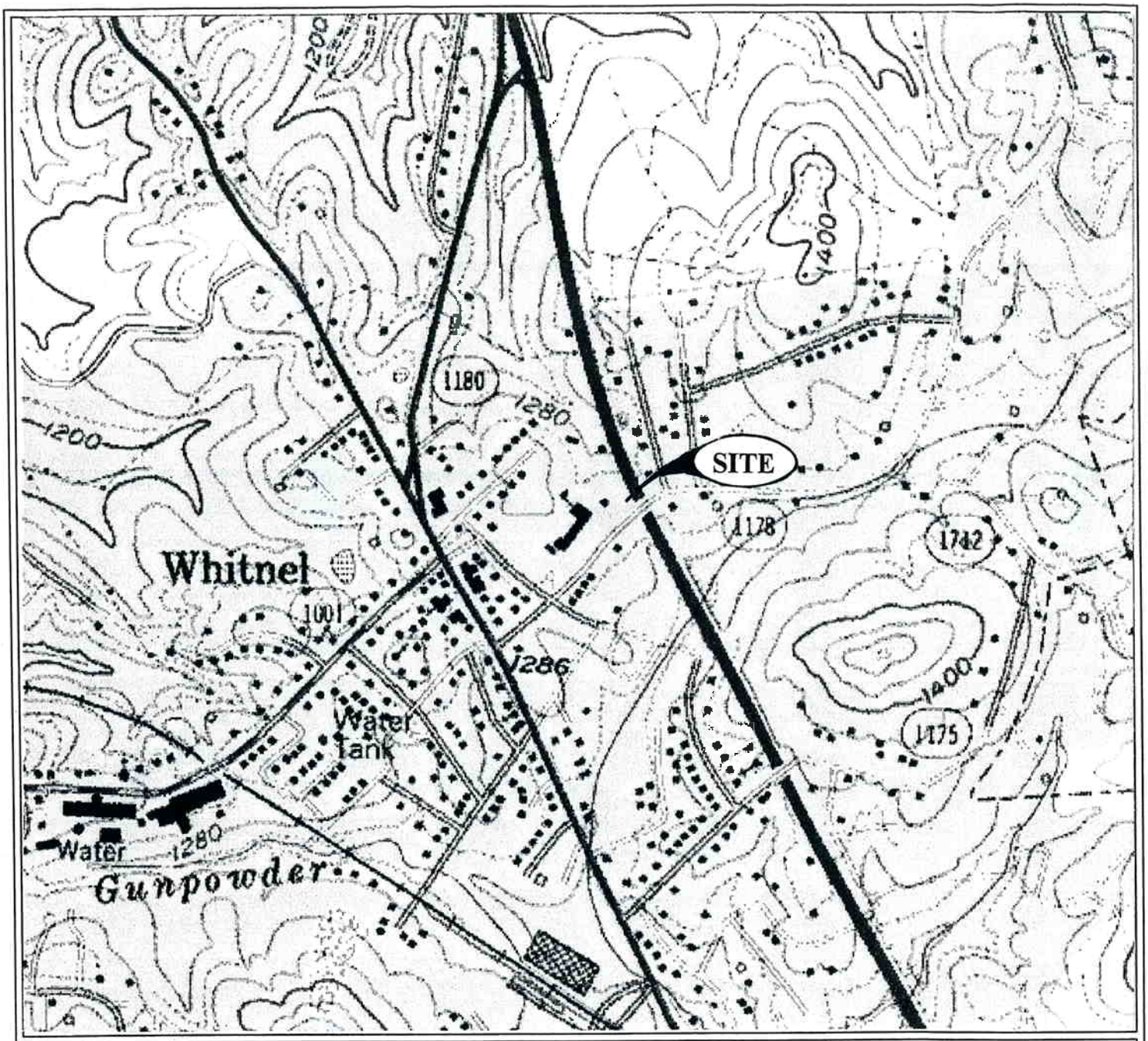
Backfill material was obtained from an off-site location. A PID and visual observation was used to screen material utilized as backfill. The backfill material did not exhibit elevated PID readings or visual staining. Backfill material was placed in approximately one-foot thick loose lifts and compacted using the backhoe bucket. The backhoe and hand tools were utilized to achieve a relative uniform grade consistent with previous site grade (Appendix B, Photograph 6).

E. Conclusions and Recommendations

Laboratory analysis of soil samples collected from beneath the midline of the UST, the east sidewall and the base of the over-excavation identified soil contaminant concentrations exceeding published action limits for TPH. The detected concentrations, as well as the observed condition of the UST, indicate there has been a release of heating oil from the UST. Analytical results of the post-excavation confirmatory soil samples indicated that naphthalene and phenanthrene are present at concentrations less than the lowest respective published Maximum Soil Contaminant Concentrations (MSCCs). The lowest published MSCCs for naphthalene and phenanthrene are 0.58 mg/kg and 60 mg/kg, respectively.

Bedrock, free product, and/or groundwater were not encountered during excavation activities. Soil contaminant levels in the over-excavation confirmatory soil samples were below their most restrictive respective MSCCs. Completed Site UST closure forms (NCDENR UST-61 and UST-2 forms) are included in Appendix E. MACTEC recommends that a copy of this report be forwarded to NCDENR for their evaluation of the site with respect to these initial abatement activities, and that a 'Notice of No Further Action' letter be provided by NCDENR for this UST closure.

FIGURES



LENOIR, NORTH CAROLINA

35801-H5-TF-024

PRINTED 1956

PHOTOREVISED 1993
DMA 4655 I NE-SERIES V842

CONTOUR INTERVAL 40 FEET

GRAPHIC SCALE FEET

1000 500 0 1000 2000

NORTH

N.C.

QUADRANGLE LOCATION

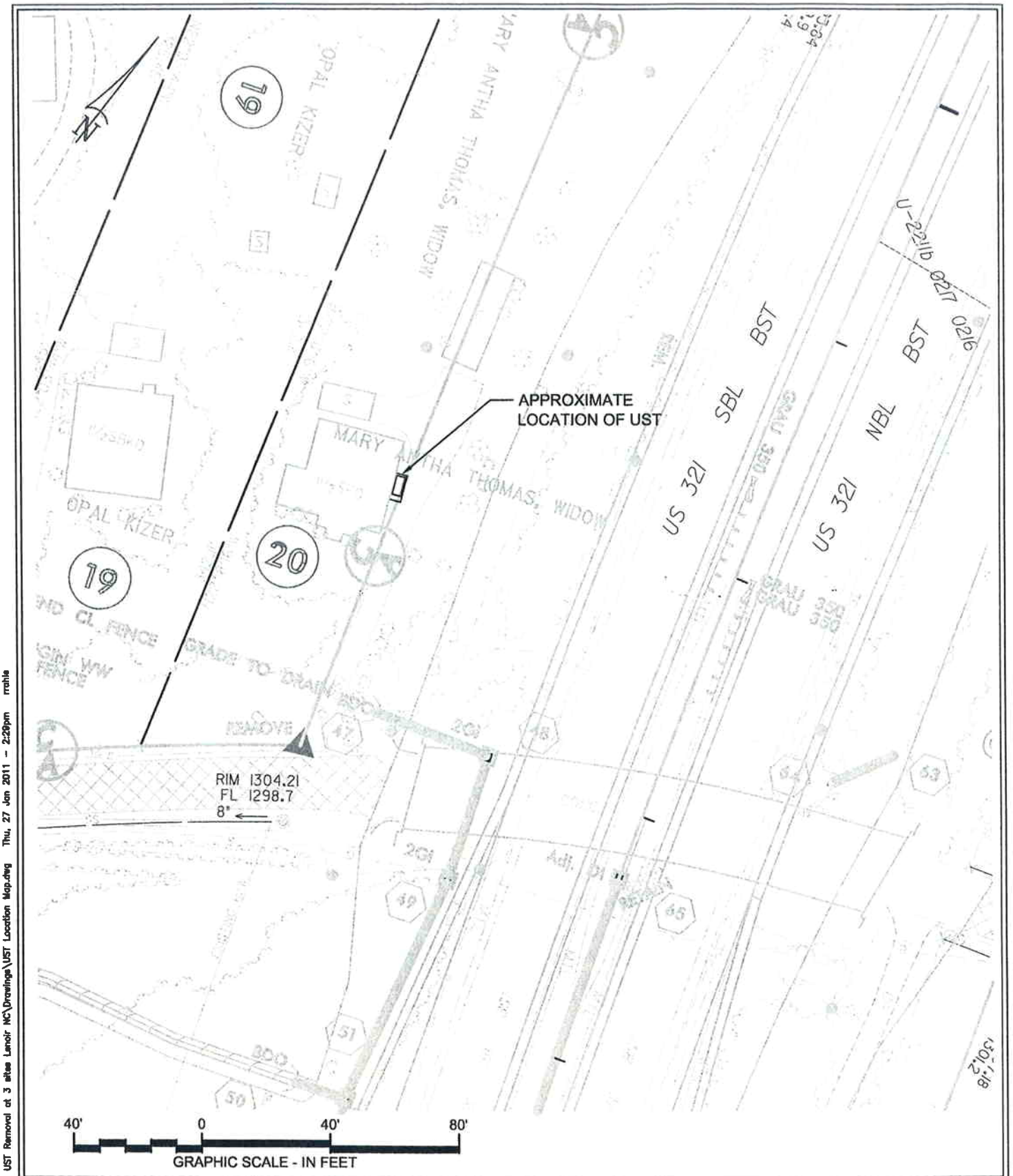
NOTE: SITE LOCATION IS APPROXIMATE.

MACTEC
ENGINEERING AND CONSULTING, INC.
ASHEVILLE, NORTH CAROLINA

TOPOGRAPHIC SITE MAP

NCDOT PARCEL #20
FORMER THOMAS PROPERTY
LENOIR, NORTH CAROLINA

DRAWN: RAC	DATE: JAN. 2011
DFT CHECK: MEV	SCALE: 1" = 1,000'
ENG CHECK: –	JOB: 6470-10-0270
APPROVAL: MEV	FIG: 1



MACTEC

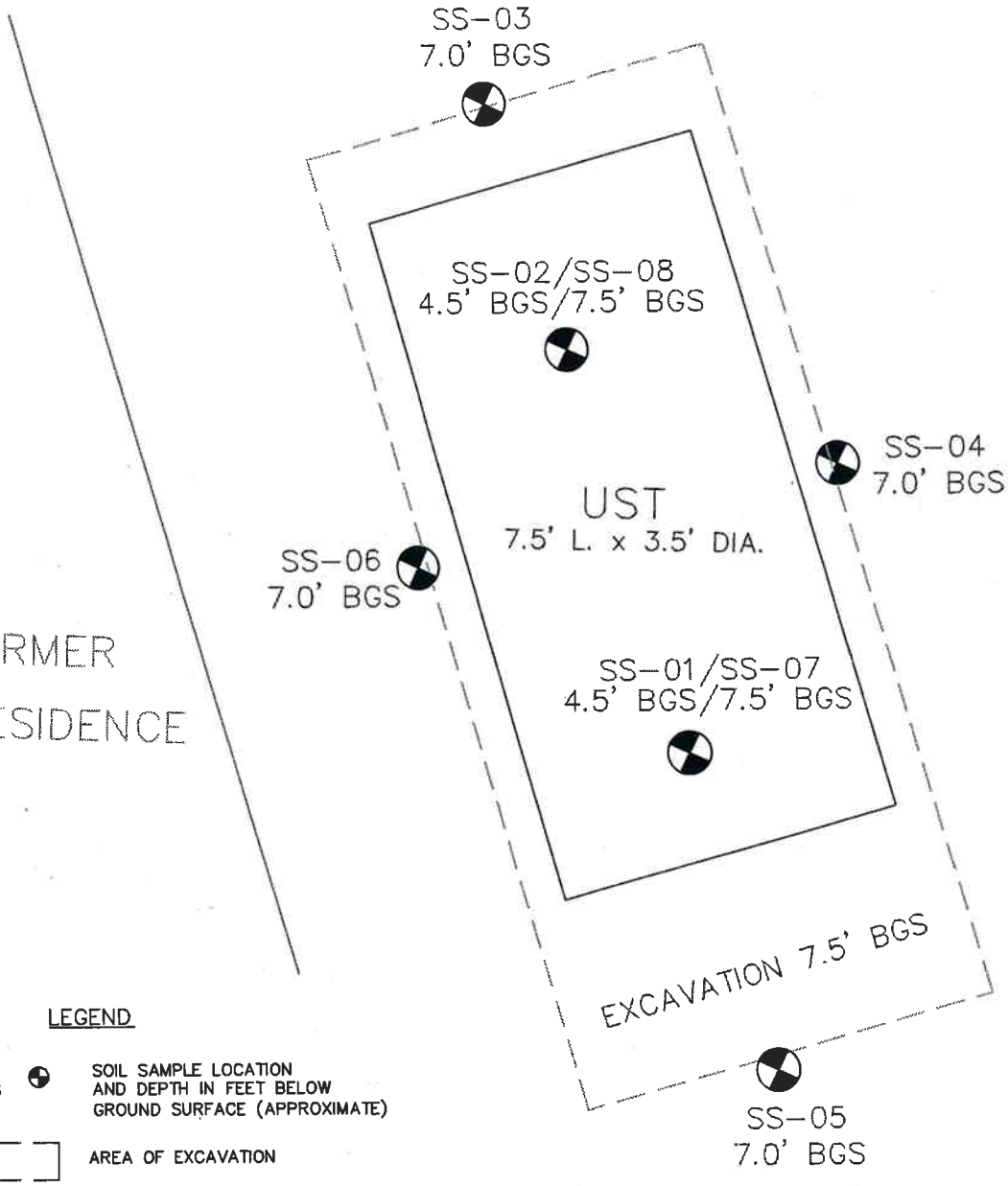
MACTEC ENGINEERING AND CONSULTING, INC.
3301 ATLANTIC AVENUE
RALEIGH, NORTH CAROLINA

UST LOCATION MAP
NCDOT PARCEL #20
STATE PROJECT No. U-2211 B, WBS 34783.1.1
LENOIR, NORTH CAROLINA

DRAWN: R.R.	DATE: JANUARY 2011	DRAWING
ENG CHECK:	SCALE: AS SHOWN	2
APPROVAL:	JOB No.: 6470-10-0270	

REFERENCE: BASE DRAWINGS ARE PROVIDED BY NCDOT; MACTEC FIELD NOTES.

P:\6470\10\270 NCDOT U 2211B UST Removal at 3 sites Lenoir NC\Drawings\UST Location Map.dwg Thu, 27 Jan 2011 - 2:29pm rrahle



LEGEND

SS-06 7.0' BGS — SOIL SAMPLE LOCATION AND DEPTH IN FEET BELOW GROUND SURFACE (APPROXIMATE)

AREA OF EXCAVATION

APPROXIMATE LOCATION OF EAST WALL OF FORMER RESIDENCE

GRAPHIC SCALE

2' 0 2' 4'

1 INCH = 2' FT. (APPROXIMATE)

MACTEC
ENGINEERING AND CONSULTING, INC.

SITE MAP WITH SOIL SAMPLE LOCATIONS
NCDOT PARCEL #20
102 HIBRITEN DRIVE
LENOIR, NORTH CAROLINA

DRAWN: RLC	DATE: JAN 2011
DFT CHECK: MEW	SCALE: NA
ENG CHECK: -	JOB: 6470-10-0270
APPROVAL: MEW	FIG: 3

REFERENCE: MACTEC field notes.

TABLES

Table 1: Analytical Results for TPH-DRO and TPH-GRO

NCDOT Parcel 20 (Former Marie Antha Thomas Property)
102 Hibriten Drive
Lenoir, North Carolina
MACTEC Project: 6470-10-0270

SAMPLE ID	DEPTH (feet bgs)	LOCATION	PID Readings (ppm)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)
SS-01	4.5	Beneath midline of UST(south end)	20.6	**390**	BRL
SS-02	4.5	Beneath midline of UST(north end)	0.0	BRL	BRL
SS-03	7.0	Overexcavation north sidewall	0.0	BRL	BRL
SS-04	7.0	Overexcavation east sidewall	0.0	**63**	BRL
SS-05	7.0	Overexcavation south sidewall	0.0	BRL	BRL
SS-06	7.0	Overexcavation west sidewall	0.0	BRL	BRL
SS-07	7.5	Base of overexcavation (beneath SS-01)	0.0	**16**	BRL
SS-08	7.5	Base of overexcavation (beneath SS-02)	0.0	**18**	BRL

BOLD = Reported concentrations above NCDENR Action Limit of 10 mg/kg

Notes:
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
bgs = below ground surface

PID = Photoionization Detector
ppm = parts per million
mg/kg = milligrams per kilogram
BRL = Below Reporting Limits

Prepared By: K. Weir 1-19-2011
Checked By: R. Clark 1-20-2011

APPENDIX A

Material Manifests and Scale Tickets

MATERIAL MANIFEST

Zebra Environmental & Industrial Services

EMERGENCY PHONE NO. (336) 841-5276

POST OFFICE BOX 357 HIGH POINT, NC 27261

TEL (336) 841-5276 FAX (336) 841-5509

Manifest Document No.

Page of

Zebra Job No. 231

GENERATOR INFORMATION

Name: NC DOT Professional Services

US EPA ID No.:

Street Address: 102 - 1306 - 1409 - 1351

Mailing Address: D-22 11-B

Phone No.: 828-252-7130

Contact: Matthew E. Wallace

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class or Div	UN / NA ID No.	Packing Group	Containers Qty.	Containers Type	Total Quantity	Unit Wt./Vol.
a.		NON Hazardous Liquids (NOS)	1	1	1	1	vt	299	G
b.									
c.									

ADDITIONAL INFORMATION	ERG No.	Zebra Profile Code	Facility Use
a. ground water			
b.			
c.			

GENERATOR'S CERTIFICATION

This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed / Typed Name: Wm. Kirk Wall signing with NCDOT Permission

Signature: [signature]

Mo. / Day / Yr.: 12/20/10

TRANSPORTER INFORMATION

Transporter: Zebra Environmental & Industrial Services Inc

Address: 901 East Springfield Road, High Point, NC 27263

Transporter or EPA ID No.: NCO991302669

Unit No.: VT-6

Phone: (336) 841-5276

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

Signature: [signature] Shipment Date: 12-20-10

I hereby acknowledge receipt of the above-described materials were received from the generator site and were transported to the facility listed below.

Signature: [signature] Delivery Date:

FACILITY INFORMATION

Facility: Zebra Environmental & Industrial Services, Inc.

Address: 901 East Springfield Road, High Point, NC 27263

Facility or EPA ID No.: NCO991302669

Phone: (336) 841-5276

Contact: David Tedder

I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.

Signature: [signature] Receipt Date:

Discrepancies / Routing Codes / Handing Methods

a.

b.

c.

ORIGINAL - Facility Retain COPY 2 - Return to Generator COPY 3 - Transporter Retain COPY 4 - Generator Retain

MATERIAL MANIFEST

EMERGENCY PHONE NO. (336) 841-5276
POST OFFICE BOX 357 HIGH POINT, NC 27261
TEL (336) 841-5276 FAX (336) 841-5509

Manifest Document No.	2311-01
Page	1 of 1
Zebra Job No.	2311

GENERATOR INFORMATION

Name: NC DOT Project U-2211-B WBS 34793.1.1		US EPA ID No.
Street Address: 102 Hwy 64 SW Lenoir, NC (Caldwell)	Mailing Address	Phone No. / Contact

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class or Div	UN / NA ID No.	Packing Group	Containers Qty.	Containers Type	Total Quantity	Unit Wt./Vol.
a.		NON Haz / Non Reg 261.2(a)(2)(ii)	n/a	n/a	n/a	01	DT		TNS
b.								5 TNS	
c.									

ADDITIONAL INFORMATION		ERG No.	Zebra Profile Code	Facility Use
a.	petro impacted soil			
b.				
c.				

GENERATOR'S CERTIFICATION

This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed / Typed Name	Signature	Mo. / Day / Yr.

TRANSPORTER INFORMATION

Transporter: Zebra Environmental & Industrial Services Inc

Address: 901 East Springfield Road, High Point, NC 27263

Transporter or EPA ID No.: NCO991302669 Unit No.: 1 D-1

Phone: (336) 841-5276

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

Signature: [signature] Shipment Date: 12/21

I hereby acknowledge receipt of the above-described materials were received from the generator site and were transported to the facility listed below.

Signature: [signature] Delivery Date:

FACILITY INFORMATION

Facility: Zebra Environmental & Industrial Services, Inc.

Address: 901 East Springfield Road, High Point, NC 27263

Facility or EPA ID No.: NCO991302669

Phone: (336) 841-5276

Contact: David Tedder

I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.

Signature: [signature] Receipt Date:

Discrepancies / Routing Codes / Handling Methods

a.

b.

c.

ORIGINAL - Facility Retain COPY 2 - Return to Generator COPY 3 - Transporter Retain COPY 4 - Generator Retain

71352464

TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6283
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.

CAT SCALE COLLECTOR CARD INSIDE!

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: Guarantee Department.

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

DATE: 12-21-2010

920
71352464
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

SCALE 468

LOCATION: WILCO TRAVEL PLAZA
I 85 EXIT 150
HAW RIVER NC

STEER AXLE	10900	lb
DRIVE AXLE	12460	lb
TRAILER AXLE	00	lb
* GROSS WEIGHT	23360	lb

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30 2011
SHERRY RIDGEWAY SR

INVALID UNLESS SIGNED

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 facia evidence of the accuracy of the weight shown as prescribed by law.

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

COMPANY: ZEBRA TRACTOR #: 01 TRAILER #: 0

WEIGH NUMBER 2462

FEE 1.00

WEIGHMASTER OR WEIGHER SIGNATURE: Sherry Ridgeway
SHERRY RIDGEWAY

FULL WEIGH TICKET # (IF REWEIGH): 71352462

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

71352462

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.®

CAT SCALE COLLECTOR CARD INSIDE!

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: Guarantee Department.

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

DATE: 12-21-2010

STEER AXLE	17460	lb
DRIVE AXLE	35200	lb
TRAILER AXLE	00	lb
* GROSS WEIGHT	53060	lb

894 **SCALE**
71352462 **LOCATION:** 468
WILCO TRAVEL PLAZA
I 85 EXIT 150
HAW RIVER NC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

NORTH CAROLINA
PUBLIC WEIGHMASTER
LICENSE EXPIRES JUNE 30, 201
SHERRY RIDGEWAY
(IF APPLICABLE)
INVALID UNLESS SIGNED

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 facia evidence of the accuracy of the weight shown as prescribed by law.

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

COMPANY ZEBRA TRACTOR # 01 TRAILER # 0

WEIGHMASTER OR WEIGHER SIGNATURE

FEE 9.50

SHERRY RIDGEWAY

FULL WEIGH TICKET # (IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

WEIGH NUMBER
2462

CUSTOMER COPY

APPENDIX B

Photographs

Photograph 1: Removal of residual material from UST (view to the northeast).

Photograph 2: Removal of UST (view to the east).

Photograph 3: View of UST corrosion, (formerly base of north end of tank).

Photograph 4: View of UST corrosion, (formerly base of south end of tank).

Photograph 5: View of over-excavation activities (view to the west).

Photograph 6: Area of UST removal after completion of backfilling activities (view to the northeast).

APPENDIX C

UST Disposal Certificate

Zebra

Environmental & Industrial Services Inc.

901 East Springfield Road High Point, NC 27263 Phone: 1-336-841-5276 Fax: 1-336-841-5509

Tank Disposal Manifest

Tank Owner/Authorized Representative: Name and Mailing address

NC DOT Project U2211-B WBS 34783.1.1

102 Hibriten DR SW lenoir, NC (Parcel # 20)

Tank Owner/Authorized Representative: Contact: Kirk Weir

Phone: 828-252-8130

Description of Tanks:

Tank No.	Capacity	Previous Contents	Comments
1	550 gal	Heating oil	Steel

Tank Owner/Authorized Representative Certification: The undersigned certifies that the above listed storage tanks have been removed from the premises of the tank owner.

Signing with NCDOT Permission

Signature	Printed Name	Month/Day/Year
[signature]	Wm. Kirk Weir	12/20/10

Transporter: The under signed certifies that the above listed storage tanks have been transported to Zebra Environmental & industrial Services Inc, 901 East Springfield Road High Point, NC 27263

Signature	Printed Name	Month/Day/Year
[signature]	Ronald J Smith	12/20/10

Disposal Certification: The undersigned certifies that the above-named storage tank(s) have been accepted by the metal recycling facility.

Recycling Facility: ____________

Signature	Printed Name	Month/Day/Year
Amy Tedder		

APPENDIX D

Laboratory Analytical Report and Chain-of-Custody Record

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

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

Case Narrative

01/14/2011

✓ wkw 1/15/11

Mactec - Asheville (NCDOT Project)
Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 Patton Avenue
Asheville, NC 28806

Project: NCDOT Lenoir
Project No.: U-2211-B Parcel 9
Lab Submittal Date: 12/22/2010
Prism Work Order: 0120630

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

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

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

Respectfully,

PRISM LABORATORIES, INC.

Steven H. Syptill

Project Manager

Steven H. Syptill

Reviewed By

Data Qualifiers Key Reference:

A	Surrogate recovered high, there is no effect on sample data.
D	RPD value outside of the control limits.
H	Compound reported with possible high bias. LCS recovery above the QC limit.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
M	Matrix spike outside of the control limits.
MI	Matrix spike outside of the control limits. Matrix interference suspected.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

01/14/2011

Prism Work Order: 0120630

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
SS-01	0120630-01	Soil	12/20/10	12/22/10
SS-02	0120630-02	Soil	12/20/10	12/22/10
SS-03	0120630-03	Soil	12/20/10	12/22/10
SS-04	0120630-04	Soil	12/20/10	12/22/10
SS-05	0120630-05	Soil	12/20/10	12/22/10
SS-06	0120630-06	Soil	12/20/10	12/22/10
SS-07	0120630-07	Soil	12/20/10	12/22/10
SS-08	0120630-08	Soil	12/20/10	12/22/10

Samples received in good condition at 4.0 degrees C unless otherwise noted.

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

Mactec - Asheville (NCDOT Project)
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P
Asheville, NC 28806

Project: NCDOT Lenoir
Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-01
Prism Sample ID: 0120630-01
Prism Work Order: 0120630
Time Collected: 12/20/10 15:45
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**390**	**mg/kg dry**	**44**	**7.1**	**5**	***8015C**	**12/29/10 12:43**	**JMV**	**P0L0537**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*218 %*		*49-124*	*SR*
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.6	0.85	50	*8015C	12/29/10 2:42	HPE	P0L0530
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*82 %*		*55-129*	
General Chemistry Parameters									
% Solids	**79.4**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/27/10 15:30**	**JAB**	**P0L0511**

Mactec - Asheville (NCDOT Project)
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P
Asheville, NC 28806

Project: NCDOT Lenoir

Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-02
Prism Sample ID: 0120630-02
Prism Work Order: 0120630
Time Collected: 12/20/10 15:55
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.2	1.5	1	*8015C	12/29/10 9:10	JMV	P0L0537
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*77 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.3	0.69	50	*8015C	12/29/10 3:14	HPE	P0L0530
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*107 %*		*55-129*	
General Chemistry Parameters									
% Solids	**75.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/27/10 15:30**	**JAB**	**P0L0511**

Mactec - Asheville (NCDOT Project)
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P
Asheville, NC 28806

Project: NCDOT Lenoir

Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-03
Prism Sample ID: 0120630-03
Prism Work Order: 0120630
Time Collected: 12/20/10 16:20
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.1	1.5	1	*8015C	12/29/10 9:45	JMV	P0L0537
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*79 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.1	0.66	50	*8015C	12/29/10 11:31	HPE	P0L0530
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*70 %*		*55-129*	
General Chemistry Parameters									
% Solids	**76.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/27/10 15:30**	**JAB**	**P0L0511**

Mactec - Asheville (NCDOT Project)
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P
Asheville, NC 28806

Project: NCDOT Lenoir

Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-04
Prism Sample ID: 0120630-04
Prism Work Order: 0120630
Time Collected: 12/20/10 16:40
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**63**	**mg/kg dry**	**9.1**	**1.5**	**1**	***8015C**	**12/29/10 10:21**	**JMV**	**P0L0537**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*118 %*		*49-124*	
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	13	0.83	1	MADEP EPH	1/5/11 4:12	GRR	P0L0551
C19-C36 Aliphatics	BRL	mg/kg dry	13	1.3	1	MADEP EPH	1/5/11 4:12	GRR	P0L0551
C11-C22 Aromatics	BRL	mg/kg dry	13	3.6	1	MADEP EPH	1/5/11 5:03	GRR	P0L0551
			Surrogate			Recovery		Control Limits	
			1-Chlorooctadecane			*77 %*		*40-140*	
			o-Terphenyl			*77 %*		*40-140*	
			2-Fluorobiphenyl			*89 %*		*40-140*	
			2-Bromonaphthalene			*89 %*		*40-140*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.9	0.77	50	*8015C	12/27/10 18:17	HPE	P0L0499
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*136 %*		*55-129*	*SR*
General Chemistry Parameters									
% Solids	**75.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/27/10 15:30**	**JAB**	**P0L0511**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
1,2-Dichlorobenzene	BRL	mg/kg dry	0.43	0.099	1	8270D	12/31/10 4:46	KC	P0L0594
1,3-Dichlorobenzene	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 4:46	KC	P0L0594
1,4-Dichlorobenzene	BRL	mg/kg dry	0.43	0.098	1	8270D	12/31/10 4:46	KC	P0L0594
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
2,4-Dichlorophenol	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
2,4-Dimethylphenol	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
2,4-Dinitrophenol	BRL	mg/kg dry	0.43	0.068	1	8270D	12/31/10 4:46	KC	P0L0594
2,4-Dinitrotoluene	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 4:46	KC	P0L0594
2,6-Dinitrotoluene	BRL	mg/kg dry	0.43	0.090	1	8270D	12/31/10 4:46	KC	P0L0594
2-Chloronaphthalene	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 4:46	KC	P0L0594
2-Chlorophenol	BRL	mg/kg dry	0.43	0.12	1	8270D	12/31/10 4:46	KC	P0L0594
2-Methylnaphthalene	BRL	mg/kg dry	0.43	0.13	1	8270D	12/31/10 4:46	KC	P0L0594
2-Methylphenol	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
2-Nitrophenol	BRL	mg/kg dry	0.43	0.098	1	8270D	12/31/10 4:46	KC	P0L0594
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
3/4-Methylphenol	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.43	0.070	1	8270D	12/31/10 4:46	KC	P0L0594
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.43	0.095	1	8270D	12/31/10 4:46	KC	P0L0594
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.43	0.099	1	8270D	12/31/10 4:46	KC	P0L0594
4-Chloroaniline	BRL	mg/kg dry	0.43	0.088	1	8270D	12/31/10 4:46	KC	P0L0594

Mactec - Asheville (NCDOT Project)
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P
Asheville, NC 28806

Project: NCDOT Lenoir
Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-04
Prism Sample ID: 0120630-04
Prism Work Order: 0120630
Time Collected: 12/20/10 16:40
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.43	0.086	1	8270D	12/31/10 4:46	KC	P0L0594
4-Nitrophenol	BRL	mg/kg dry	0.43	0.059	1	8270D	12/31/10 4:46	KC	P0L0594
Acenaphthene	BRL	mg/kg dry	0.43	0.094	1	8270D	12/31/10 4:46	KC	P0L0594
Acenaphthylene	BRL	mg/kg dry	0.43	0.099	1	8270D	12/31/10 4:46	KC	P0L0594
Anthracene	BRL	mg/kg dry	0.43	0.099	1	8270D	12/31/10 4:46	KC	P0L0594
Azobenzene	BRL	mg/kg dry	0.43	0.096	1	8270D	12/31/10 4:46	KC	P0L0594
Benzo(a)anthracene	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
Benzo(a)pyrene	BRL	mg/kg dry	0.43	0.058	1	8270D	12/31/10 4:46	KC	P0L0594
Benzo(b)fluoranthene	BRL	mg/kg dry	0.43	0.090	1	8270D	12/31/10 4:46	KC	P0L0594
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.43	0.078	1	8270D	12/31/10 4:46	KC	P0L0594
Benzo(k)fluoranthene	BRL	mg/kg dry	0.43	0.12	1	8270D	12/31/10 4:46	KC	P0L0594
Benzoic Acid	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
Benzyl alcohol	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.43	0.12	1	8270D	12/31/10 4:46	KC	P0L0594
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.43	0.12	1	8270D	12/31/10 4:46	KC	P0L0594
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.43	0.14	1	8270D	12/31/10 4:46	KC	P0L0594
Butyl benzyl phthalate	BRL	mg/kg dry	0.43	0.13	1	8270D	12/31/10 4:46	KC	P0L0594
Chrysene	BRL	mg/kg dry	0.43	0.097	1	8270D	12/31/10 4:46	KC	P0L0594
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 4:46	KC	P0L0594
Dibenzofuran	BRL	mg/kg dry	0.43	0.094	1	8270D	12/31/10 4:46	KC	P0L0594
Diethyl phthalate	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
Dimethyl phthalate	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 4:46	KC	P0L0594
Di-n-butyl phthalate	BRL	mg/kg dry	0.43	0.14	1	8270D	12/31/10 4:46	KC	P0L0594
Di-n-octyl phthalate	BRL	mg/kg dry	0.43	0.14	1	8270D	12/31/10 4:46	KC	P0L0594
Fluoranthene	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
Fluorene	BRL	mg/kg dry	0.43	0.095	1	8270D	12/31/10 4:46	KC	P0L0594
Hexachlorobenzene	BRL	mg/kg dry	0.43	0.097	1	8270D	12/31/10 4:46	KC	P0L0594
Hexachlorobutadiene	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.43	0.086	1	8270D	12/31/10 4:46	KC	P0L0594
Hexachloroethane	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 4:46	KC	P0L0594
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
Isophorone	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 4:46	KC	P0L0594
Naphthalene	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
Nitrobenzene	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.43	0.097	1	8270D	12/31/10 4:46	KC	P0L0594
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 4:46	KC	P0L0594
Pentachlorophenol	BRL	mg/kg dry	0.43	0.12	1	8270D	12/31/10 4:46	KC	P0L0594
Phenanthrene	**0.13 J**	**mg/kg dry**	**0.43**	**0.096**	**1**	**8270D**	**12/31/10 4:46**	**KC**	**P0L0594**
Phenol	BRL	mg/kg dry	0.43	0.12	1	8270D	12/31/10 4:46	KC	P0L0594
Pyrene	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 4:46	KC	P0L0594

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*84 %*	*34-134*

Mactec - Asheville (NCDOT Project)
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P
Asheville, NC 28806

Project: NCDOT Lenoir
Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-04
Prism Sample ID: 0120630-04
Prism Work Order: 0120630
Time Collected: 12/20/10 16:40
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2-Fluorobiphenyl			*88 %*		*17-122*	
			2-Fluorophenol			*70 %*		*13-108*	
			Nitrobenzene-d5			*72 %*		*11-118*	
			Phenol-d5			*75 %*		*23-109*	
			Terphenyl-d14			*134 %*		*41-156*	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0053	0.00071	1	8260B	12/29/10 15:50	KLA	P0L0575
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0053	0.00075	1	8260B	12/29/10 15:50	KLA	P0L0575
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0053	0.00068	1	8260B	12/29/10 15:50	KLA	P0L0575
1,1-Dichloroethane	BRL	mg/kg dry	0.0053	0.00050	1	8260B	12/29/10 15:50	KLA	P0L0575
1,1-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00054	1	8260B	12/29/10 15:50	KLA	P0L0575
1,1-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00055	1	8260B	12/29/10 15:50	KLA	P0L0575
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0053	0.0010	1	8260B	12/29/10 15:50	KLA	P0L0575
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0053	0.00058	1	8260B	12/29/10 15:50	KLA	P0L0575
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0053	0.0011	1	8260B	12/29/10 15:50	KLA	P0L0575
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0053	0.0010	1	8260B	12/29/10 15:50	KLA	P0L0575
1,2-Dibromoethane	BRL	mg/kg dry	0.0053	0.00067	1	8260B	12/29/10 15:50	KLA	P0L0575
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00081	1	8260B	12/29/10 15:50	KLA	P0L0575
1,2-Dichloroethane	BRL	mg/kg dry	0.0053	0.00053	1	8260B	12/29/10 15:50	KLA	P0L0575
1,2-Dichloropropane	BRL	mg/kg dry	0.0053	0.00056	1	8260B	12/29/10 15:50	KLA	P0L0575
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0053	0.00080	1	8260B	12/29/10 15:50	KLA	P0L0575
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00092	1	8260B	12/29/10 15:50	KLA	P0L0575
1,3-Dichloropropane	BRL	mg/kg dry	0.0053	0.00051	1	8260B	12/29/10 15:50	KLA	P0L0575
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00089	1	8260B	12/29/10 15:50	KLA	P0L0575
2,2-Dichloropropane	BRL	mg/kg dry	0.0053	0.00090	1	8260B	12/29/10 15:50	KLA	P0L0575
2-Chlorotoluene	BRL	mg/kg dry	0.0053	0.00078	1	8260B	12/29/10 15:50	KLA	P0L0575
4-Chlorotoluene	BRL	mg/kg dry	0.0053	0.00093	1	8260B	12/29/10 15:50	KLA	P0L0575
4-Isopropyltoluene	BRL	mg/kg dry	0.0053	0.0010	1	8260B	12/29/10 15:50	KLA	P0L0575
Acetone	BRL	mg/kg dry	0.053	0.0079	1	8260B	12/29/10 15:50	KLA	P0L0575
Benzene	BRL	mg/kg dry	0.0032	0.00051	1	8260B	12/29/10 15:50	KLA	P0L0575
Bromobenzene	BRL	mg/kg dry	0.0053	0.00076	1	8260B	12/29/10 15:50	KLA	P0L0575
Bromochloromethane	BRL	mg/kg dry	0.0053	0.00049	1	8260B	12/29/10 15:50	KLA	P0L0575
Bromodichloromethane	BRL	mg/kg dry	0.0053	0.00052	1	8260B	12/29/10 15:50	KLA	P0L0575
Bromoform	BRL	mg/kg dry	0.0053	0.00055	1	8260B	12/29/10 15:50	KLA	P0L0575
Bromomethane	BRL	mg/kg dry	0.011	0.00066	1	8260B	12/29/10 15:50	KLA	P0L0575
Carbon Tetrachloride	BRL	mg/kg dry	0.0053	0.00053	1	8260B	12/29/10 15:50	KLA	P0L0575
Chlorobenzene	BRL	mg/kg dry	0.0053	0.00077	1	8260B	12/29/10 15:50	KLA	P0L0575
Chloroethane	BRL	mg/kg dry	0.011	0.00066	1	8260B	12/29/10 15:50	KLA	P0L0575
Chloroform	BRL	mg/kg dry	0.0053	0.00064	1	8260B	12/29/10 15:50	KLA	P0L0575
Chloromethane	BRL	mg/kg dry	0.0053	0.00056	1	8260B	12/29/10 15:50	KLA	P0L0575
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00056	1	8260B	12/29/10 15:50	KLA	P0L0575
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00055	1	8260B	12/29/10 15:50	KLA	P0L0575
Dibromochloromethane	BRL	mg/kg dry	0.0053	0.00057	1	8260B	12/29/10 15:50	KLA	P0L0575

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Asheville, NC 28806

Project: NCDOT Lenoir
Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-04
Prism Sample ID: 0120630-04
Prism Work Order: 0120630
Time Collected: 12/20/10 16:40
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	mg/kg dry	0.0053	0.00062	1	8260B	12/29/10 15:50	KLA	P0L0575
Ethylbenzene	BRL	mg/kg dry	0.0053	0.00075	1	8260B	12/29/10 15:50	KLA	P0L0575
Isopropyl Ether	BRL	mg/kg dry	0.0053	0.00050	1	8260B	12/29/10 15:50	KLA	P0L0575
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0053	0.00080	1	8260B	12/29/10 15:50	KLA	P0L0575
m,p-Xylenes	BRL	mg/kg dry	0.011	0.0014	1	8260B	12/29/10 15:50	KLA	P0L0575
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.053	0.0031	1	8260B	12/29/10 15:50	KLA	P0L0575
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.0050	1	8260B	12/29/10 15:50	KLA	P0L0575
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.053	0.0010	1	8260B	12/29/10 15:50	KLA	P0L0575
Methylene Chloride	BRL	mg/kg dry	0.0053	0.00044	1	8260B	12/29/10 15:50	KLA	P0L0575
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00036	1	8260B	12/29/10 15:50	KLA	P0L0575
Naphthalene	**0.014**	**mg/kg dry**	**0.011**	**0.0010**	**1**	**8260B**	**12/29/10 15:50**	**KLA**	**P0L0575**
n-Butylbenzene	BRL	mg/kg dry	0.0053	0.00094	1	8260B	12/29/10 15:50	KLA	P0L0575
n-Propylbenzene	BRL	mg/kg dry	0.0053	0.00085	1	8260B	12/29/10 15:50	KLA	P0L0575
o-Xylene	BRL	mg/kg dry	0.0053	0.00071	1	8260B	12/29/10 15:50	KLA	P0L0575
sec-Butylbenzene	BRL	mg/kg dry	0.0053	0.0010	1	8260B	12/29/10 15:50	KLA	P0L0575
Styrene	BRL	mg/kg dry	0.0053	0.00084	1	8260B	12/29/10 15:50	KLA	P0L0575
tert-Butylbenzene	BRL	mg/kg dry	0.0053	0.00086	1	8260B	12/29/10 15:50	KLA	P0L0575
Tetrachloroethylene	BRL	mg/kg dry	0.0053	0.00077	1	8260B	12/29/10 15:50	KLA	P0L0575
Toluene	BRL	mg/kg dry	0.0053	0.00068	1	8260B	12/29/10 15:50	KLA	P0L0575
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00078	1	8260B	12/29/10 15:50	KLA	P0L0575
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00055	1	8260B	12/29/10 15:50	KLA	P0L0575
Trichloroethylene	BRL	mg/kg dry	0.0053	0.00054	1	8260B	12/29/10 15:50	KLA	P0L0575
Trichlorofluoromethane	BRL	mg/kg dry	0.0053	0.00060	1	8260B	12/29/10 15:50	KLA	P0L0575
Vinyl acetate	BRL	mg/kg dry	0.026	0.00077	1	8260B	12/29/10 15:50	KLA	P0L0575
Vinyl chloride	BRL	mg/kg dry	0.0053	0.00061	1	8260B	12/29/10 15:50	KLA	P0L0575
Xylenes, total	BRL	mg/kg dry	0.016	0.0022	1	8260B	12/29/10 15:50	KLA	P0L0575

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*96 %*	*70-130*
Dibromofluoromethane	*104 %*	*84-123*
Toluene-d8	*87 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	5.5	2.1	100	MADEP VPH	12/31/10 8:49	hea	P0L0585
C9-C12 Aliphatics	BRL	mg/kg dry	5.5	2.0	100	MADEP VPH	12/31/10 8:49	hea	P0L0585
C9-C10 Aromatics	BRL	mg/kg dry	5.5	0.59	100	MADEP VPH	12/31/10 8:49	hea	P0L0585

Surrogate	Recovery	Control Limits	
2,5-Dibromotoluene (PID)	*109 %*	*70-130*	
2,5-Dibromotoluene (FID)	*133 %*	*70-130*	4, SR

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Project: NCDOT Lenoir
Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-05
Prism Sample ID: 0120630-05
Prism Work Order: 0120630
Time Collected: 12/20/10 16:50
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.8	1.4	1	*8015C	12/29/10 10:57	JMV	P0L0537
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*84 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.7	0.74	50	*8015C	12/27/10 18:49	HPE	P0L0499
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*141 %*		*55-129*	*SR*
General Chemistry Parameters									
% Solids	**78.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/27/10 15:30**	**JAB**	**P0L0511**

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Project: NCDOT Lenoir

Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-06
Prism Sample ID: 0120630-06
Prism Work Order: 0120630
Time Collected: 12/20/10 17:10
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.2	1.3	1	*8015C	12/29/10 11:32	JMV	P0L0537
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*84 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.2	0.67	50	*8015C	12/27/10 19:20	HPE	P0L0499
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*132 %*		*55-129*	*SR*
General Chemistry Parameters									
% Solids	**84.3**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/27/10 15:30**	**JAB**	**P0L0511**

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Project: NCDOT Lenoir
Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-07
Prism Sample ID: 0120630-07
Prism Work Order: 0120630
Time Collected: 12/20/10 17:20
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**16**	**mg/kg dry**	**9.1**	**1.5**	**1**	***8015C**	**12/29/10 12:08**	**JMV**	**P0L0537**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*91 %*		*49-124*	
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	13	0.81	1	MADEP EPH	1/5/11 5:55	GRR	P0L0551
C19-C36 Aliphatics	BRL	mg/kg dry	13	1.3	1	MADEP EPH	1/5/11 5:55	GRR	P0L0551
C11-C22 Aromatics	BRL	mg/kg dry	13	3.6	1	MADEP EPH	1/5/11 6:46	GRR	P0L0551
			Surrogate			Recovery		Control Limits	
			1-Chlorooctadecane			*68 %*		*40-140*	
			o-Terphenyl			*80 %*		*40-140*	
			2-Fluorobiphenyl			*89 %*		*40-140*	
			2-Bromonaphthalene			*86 %*		*40-140*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.4	0.84	50	*8015C	12/27/10 19:52	HPE	P0L0499
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*124 %*		*55-129*	
General Chemistry Parameters									
% Solids	**76.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/27/10 15:30**	**JAB**	**P0L0511**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
1,2-Dichlorobenzene	BRL	mg/kg dry	0.43	0.098	1	8270D	12/31/10 5:24	KC	P0L0594
1,3-Dichlorobenzene	BRL	mg/kg dry	0.43	0.099	1	8270D	12/31/10 5:24	KC	P0L0594
1,4-Dichlorobenzene	BRL	mg/kg dry	0.43	0.096	1	8270D	12/31/10 5:24	KC	P0L0594
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 5:24	KC	P0L0594
2,4-Dichlorophenol	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
2,4-Dimethylphenol	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
2,4-Dinitrophenol	BRL	mg/kg dry	0.43	0.067	1	8270D	12/31/10 5:24	KC	P0L0594
2,4-Dinitrotoluene	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 5:24	KC	P0L0594
2,6-Dinitrotoluene	BRL	mg/kg dry	0.43	0.089	1	8270D	12/31/10 5:24	KC	P0L0594
2-Chloronaphthalene	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 5:24	KC	P0L0594
2-Chlorophenol	BRL	mg/kg dry	0.43	0.12	1	8270D	12/31/10 5:24	KC	P0L0594
2-Methylnaphthalene	BRL	mg/kg dry	0.43	0.13	1	8270D	12/31/10 5:24	KC	P0L0594
2-Methylphenol	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
2-Nitrophenol	BRL	mg/kg dry	0.43	0.097	1	8270D	12/31/10 5:24	KC	P0L0594
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 5:24	KC	P0L0594
3/4-Methylphenol	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.43	0.069	1	8270D	12/31/10 5:24	KC	P0L0594
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.43	0.094	1	8270D	12/31/10 5:24	KC	P0L0594
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.43	0.098	1	8270D	12/31/10 5:24	KC	P0L0594
4-Chloroaniline	BRL	mg/kg dry	0.43	0.087	1	8270D	12/31/10 5:24	KC	P0L0594

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Project: NCDOT Lenoir
Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-07
Prism Sample ID: 0120630-07
Prism Work Order: 0120630
Time Collected: 12/20/10 17:20
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.43	0.084	1	8270D	12/31/10 5:24	KC	P0L0594
4-Nitrophenol	BRL	mg/kg dry	0.43	0.058	1	8270D	12/31/10 5:24	KC	P0L0594
Acenaphthene	BRL	mg/kg dry	0.43	0.092	1	8270D	12/31/10 5:24	KC	P0L0594
Acenaphthylene	BRL	mg/kg dry	0.43	0.097	1	8270D	12/31/10 5:24	KC	P0L0594
Anthracene	BRL	mg/kg dry	0.43	0.098	1	8270D	12/31/10 5:24	KC	P0L0594
Azobenzene	BRL	mg/kg dry	0.43	0.095	1	8270D	12/31/10 5:24	KC	P0L0594
Benzo(a)anthracene	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 5:24	KC	P0L0594
Benzo(a)pyrene	BRL	mg/kg dry	0.43	0.057	1	8270D	12/31/10 5:24	KC	P0L0594
Benzo(b)fluoranthene	BRL	mg/kg dry	0.43	0.089	1	8270D	12/31/10 5:24	KC	P0L0594
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.43	0.077	1	8270D	12/31/10 5:24	KC	P0L0594
Benzo(k)fluoranthene	BRL	mg/kg dry	0.43	0.12	1	8270D	12/31/10 5:24	KC	P0L0594
Benzoic Acid	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
Benzyl alcohol	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.43	0.12	1	8270D	12/31/10 5:24	KC	P0L0594
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.43	0.14	1	8270D	12/31/10 5:24	KC	P0L0594
Butyl benzyl phthalate	BRL	mg/kg dry	0.43	0.13	1	8270D	12/31/10 5:24	KC	P0L0594
Chrysene	BRL	mg/kg dry	0.43	0.096	1	8270D	12/31/10 5:24	KC	P0L0594
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.43	0.099	1	8270D	12/31/10 5:24	KC	P0L0594
Dibenzofuran	BRL	mg/kg dry	0.43	0.092	1	8270D	12/31/10 5:24	KC	P0L0594
Diethyl phthalate	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
Dimethyl phthalate	BRL	mg/kg dry	0.43	0.098	1	8270D	12/31/10 5:24	KC	P0L0594
Di-n-butyl phthalate	BRL	mg/kg dry	0.43	0.14	1	8270D	12/31/10 5:24	KC	P0L0594
Di-n-octyl phthalate	BRL	mg/kg dry	0.43	0.14	1	8270D	12/31/10 5:24	KC	P0L0594
Fluoranthene	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
Fluorene	BRL	mg/kg dry	0.43	0.094	1	8270D	12/31/10 5:24	KC	P0L0594
Hexachlorobenzene	BRL	mg/kg dry	0.43	0.096	1	8270D	12/31/10 5:24	KC	P0L0594
Hexachlorobutadiene	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.43	0.085	1	8270D	12/31/10 5:24	KC	P0L0594
Hexachloroethane	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 5:24	KC	P0L0594
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
Isophorone	BRL	mg/kg dry	0.43	0.098	1	8270D	12/31/10 5:24	KC	P0L0594
Naphthalene	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
Nitrobenzene	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.43	0.096	1	8270D	12/31/10 5:24	KC	P0L0594
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 5:24	KC	P0L0594
Pentachlorophenol	BRL	mg/kg dry	0.43	0.12	1	8270D	12/31/10 5:24	KC	P0L0594
Phenanthrene	BRL	mg/kg dry	0.43	0.095	1	8270D	12/31/10 5:24	KC	P0L0594
Phenol	BRL	mg/kg dry	0.43	0.11	1	8270D	12/31/10 5:24	KC	P0L0594
Pyrene	BRL	mg/kg dry	0.43	0.10	1	8270D	12/31/10 5:24	KC	P0L0594

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*64 %*	*34-134*

Mactec - Asheville (NCDOT Project)
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P
Asheville, NC 28806

Project: NCDOT Lenoir
Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-07
Prism Sample ID: 0120630-07
Prism Work Order: 0120630
Time Collected: 12/20/10 17:20
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2-Fluorobiphenyl			*66 %*		*17-122*	
			2-Fluorophenol			*59 %*		*13-108*	
			Nitrobenzene-d5			*63 %*		*11-118*	
			Phenol-d5			*64 %*		*23-109*	
			Terphenyl-d14			*97 %*		*41-156*	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0061	0.00081	1	8260B	12/29/10 16:22	KLA	P0L0575
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0061	0.00086	1	8260B	12/29/10 16:22	KLA	P0L0575
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0061	0.00078	1	8260B	12/29/10 16:22	KLA	P0L0575
1,1-Dichloroethane	BRL	mg/kg dry	0.0061	0.00057	1	8260B	12/29/10 16:22	KLA	P0L0575
1,1-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00062	1	8260B	12/29/10 16:22	KLA	P0L0575
1,1-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00064	1	8260B	12/29/10 16:22	KLA	P0L0575
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0061	0.0012	1	8260B	12/29/10 16:22	KLA	P0L0575
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0061	0.00067	1	8260B	12/29/10 16:22	KLA	P0L0575
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0061	0.0013	1	8260B	12/29/10 16:22	KLA	P0L0575
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0061	0.0012	1	8260B	12/29/10 16:22	KLA	P0L0575
1,2-Dibromoethane	BRL	mg/kg dry	0.0061	0.00078	1	8260B	12/29/10 16:22	KLA	P0L0575
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.00094	1	8260B	12/29/10 16:22	KLA	P0L0575
1,2-Dichloroethane	BRL	mg/kg dry	0.0061	0.00061	1	8260B	12/29/10 16:22	KLA	P0L0575
1,2-Dichloropropane	BRL	mg/kg dry	0.0061	0.00064	1	8260B	12/29/10 16:22	KLA	P0L0575
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0061	0.00092	1	8260B	12/29/10 16:22	KLA	P0L0575
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.0011	1	8260B	12/29/10 16:22	KLA	P0L0575
1,3-Dichloropropane	BRL	mg/kg dry	0.0061	0.00059	1	8260B	12/29/10 16:22	KLA	P0L0575
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.0010	1	8260B	12/29/10 16:22	KLA	P0L0575
2,2-Dichloropropane	BRL	mg/kg dry	0.0061	0.0010	1	8260B	12/29/10 16:22	KLA	P0L0575
2-Chlorotoluene	BRL	mg/kg dry	0.0061	0.00090	1	8260B	12/29/10 16:22	KLA	P0L0575
4-Chlorotoluene	BRL	mg/kg dry	0.0061	0.0011	1	8260B	12/29/10 16:22	KLA	P0L0575
4-Isopropyltoluene	BRL	mg/kg dry	0.0061	0.0012	1	8260B	12/29/10 16:22	KLA	P0L0575
Acetone	BRL	mg/kg dry	0.061	0.0091	1	8260B	12/29/10 16:22	KLA	P0L0575
Benzene	BRL	mg/kg dry	0.0037	0.00059	1	8260B	12/29/10 16:22	KLA	P0L0575
Bromobenzene	BRL	mg/kg dry	0.0061	0.00088	1	8260B	12/29/10 16:22	KLA	P0L0575
Bromochloromethane	BRL	mg/kg dry	0.0061	0.00057	1	8260B	12/29/10 16:22	KLA	P0L0575
Bromodichloromethane	BRL	mg/kg dry	0.0061	0.00060	1	8260B	12/29/10 16:22	KLA	P0L0575
Bromoform	BRL	mg/kg dry	0.0061	0.00063	1	8260B	12/29/10 16:22	KLA	P0L0575
Bromomethane	BRL	mg/kg dry	0.012	0.00076	1	8260B	12/29/10 16:22	KLA	P0L0575
Carbon Tetrachloride	BRL	mg/kg dry	0.0061	0.00061	1	8260B	12/29/10 16:22	KLA	P0L0575
Chlorobenzene	BRL	mg/kg dry	0.0061	0.00089	1	8260B	12/29/10 16:22	KLA	P0L0575
Chloroethane	BRL	mg/kg dry	0.012	0.00076	1	8260B	12/29/10 16:22	KLA	P0L0575
Chloroform	BRL	mg/kg dry	0.0061	0.00074	1	8260B	12/29/10 16:22	KLA	P0L0575
Chloromethane	BRL	mg/kg dry	0.0061	0.00064	1	8260B	12/29/10 16:22	KLA	P0L0575
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00064	1	8260B	12/29/10 16:22	KLA	P0L0575
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00064	1	8260B	12/29/10 16:22	KLA	P0L0575
Dibromochloromethane	BRL	mg/kg dry	0.0061	0.00066	1	8260B	12/29/10 16:22	KLA	P0L0575

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Asheville, NC 28806

Project: NCDOT Lenoir
Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-07
Prism Sample ID: 0120630-07
Prism Work Order: 0120630
Time Collected: 12/20/10 17:20
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	mg/kg dry	0.0061	0.00071	1	8260B	12/29/10 16:22	KLA	P0L0575
Ethylbenzene	BRL	mg/kg dry	0.0061	0.00086	1	8260B	12/29/10 16:22	KLA	P0L0575
Isopropyl Ether	BRL	mg/kg dry	0.0061	0.00058	1	8260B	12/29/10 16:22	KLA	P0L0575
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0061	0.00092	1	8260B	12/29/10 16:22	KLA	P0L0575
m,p-Xylenes	BRL	mg/kg dry	0.012	0.0017	1	8260B	12/29/10 16:22	KLA	P0L0575
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.061	0.0035	1	8260B	12/29/10 16:22	KLA	P0L0575
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.0057	1	8260B	12/29/10 16:22	KLA	P0L0575
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.061	0.0012	1	8260B	12/29/10 16:22	KLA	P0L0575
Methylene Chloride	BRL	mg/kg dry	0.0061	0.00051	1	8260B	12/29/10 16:22	KLA	P0L0575
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.012	0.00042	1	8260B	12/29/10 16:22	KLA	P0L0575
Naphthalene	BRL	mg/kg dry	0.012	0.0012	1	8260B	12/29/10 16:22	KLA	P0L0575
n-Butylbenzene	BRL	mg/kg dry	0.0061	0.0011	1	8260B	12/29/10 16:22	KLA	P0L0575
n-Propylbenzene	BRL	mg/kg dry	0.0061	0.00098	1	8260B	12/29/10 16:22	KLA	P0L0575
o-Xylene	BRL	mg/kg dry	0.0061	0.00082	1	8260B	12/29/10 16:22	KLA	P0L0575
sec-Butylbenzene	BRL	mg/kg dry	0.0061	0.0012	1	8260B	12/29/10 16:22	KLA	P0L0575
Styrene	BRL	mg/kg dry	0.0061	0.00097	1	8260B	12/29/10 16:22	KLA	P0L0575
tert-Butylbenzene	BRL	mg/kg dry	0.0061	0.00099	1	8260B	12/29/10 16:22	KLA	P0L0575
Tetrachloroethylene	BRL	mg/kg dry	0.0061	0.00088	1	8260B	12/29/10 16:22	KLA	P0L0575
Toluene	BRL	mg/kg dry	0.0061	0.00078	1	8260B	12/29/10 16:22	KLA	P0L0575
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00090	1	8260B	12/29/10 16:22	KLA	P0L0575
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00064	1	8260B	12/29/10 16:22	KLA	P0L0575
Trichloroethylene	BRL	mg/kg dry	0.0061	0.00062	1	8260B	12/29/10 16:22	KLA	P0L0575
Trichlorofluoromethane	BRL	mg/kg dry	0.0061	0.00069	1	8260B	12/29/10 16:22	KLA	P0L0575
Vinyl acetate	BRL	mg/kg dry	0.030	0.00089	1	8260B	12/29/10 16:22	KLA	P0L0575
Vinyl chloride	BRL	mg/kg dry	0.0061	0.00070	1	8260B	12/29/10 16:22	KLA	P0L0575
Xylenes, total	BRL	mg/kg dry	0.018	0.0025	1	8260B	12/29/10 16:22	KLA	P0L0575

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*92 %*	*70-130*
Dibromofluoromethane	*103 %*	*84-123*
Toluene-d8	*89 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	5.1	1.9	100	MADEP VPH	12/31/10 9:26	hea	P0L0585
C9-C12 Aliphatics	BRL	mg/kg dry	5.1	1.8	100	MADEP VPH	12/31/10 9:26	hea	P0L0585
C9-C10 Aromatics	BRL	mg/kg dry	5.1	0.54	100	MADEP VPH	12/31/10 9:26	hea	P0L0585

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*92 %*	*70-130*
2,5-Dibromotoluene (FID)	*119 %*	*70-130*

Mactec - Asheville (NCDOT Project)
Attn: Kirk Weir
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Asheville, NC 28806

Project: NCDOT Lenoir
Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-08
Prism Sample ID: 0120630-08
Prism Work Order: 0120630
Time Collected: 12/20/10 17:35
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**18**	**mg/kg dry**	**8.6**	**1.4**	**1**	***8015C**	**1/13/11 16:19**	**JMV**	**P0L0537**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*111 %*		*49-124*	
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	12	0.78	1	MADEP EPH	1/4/11 12:51	GRR	P0L0551
C19-C36 Aliphatics	BRL	mg/kg dry	12	1.3	1	MADEP EPH	1/4/11 12:51	GRR	P0L0551
C11-C22 Aromatics	BRL	mg/kg dry	12	3.4	1	MADEP EPH	1/4/11 13:42	GRR	P0L0551
			Surrogate			Recovery		Control Limits	
			1-Chlorooctadecane			*67 %*		*40-140*	
			o-Terphenyl			*76 %*		*40-140*	
			2-Fluorobiphenyl			*80 %*		*40-140*	
			2-Bromonaphthalene			*77 %*		*40-140*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.1	0.79	50	*8015C	12/27/10 16:43	HPE	P0L0499
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*131 %*		*55-129*	*SR*
General Chemistry Parameters									
% Solids	**81.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**12/27/10 15:30**	**JAB**	**P0L0511**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.40	0.10	1	8270D	12/31/10 6:02	KC	P0L0594
1,2-Dichlorobenzene	BRL	mg/kg dry	0.40	0.093	1	8270D	12/31/10 6:02	KC	P0L0594
1,3-Dichlorobenzene	BRL	mg/kg dry	0.40	0.094	1	8270D	12/31/10 6:02	KC	P0L0594
1,4-Dichlorobenzene	BRL	mg/kg dry	0.40	0.091	1	8270D	12/31/10 6:02	KC	P0L0594
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.40	0.098	1	8270D	12/31/10 6:02	KC	P0L0594
2,4-Dichlorophenol	BRL	mg/kg dry	0.40	0.10	1	8270D	12/31/10 6:02	KC	P0L0594
2,4-Dimethylphenol	BRL	mg/kg dry	0.40	0.10	1	8270D	12/31/10 6:02	KC	P0L0594
2,4-Dinitrophenol	BRL	mg/kg dry	0.40	0.063	1	8270D	12/31/10 6:02	KC	P0L0594
2,4-Dinitrotoluene	BRL	mg/kg dry	0.40	0.098	1	8270D	12/31/10 6:02	KC	P0L0594
2,6-Dinitrotoluene	BRL	mg/kg dry	0.40	0.084	1	8270D	12/31/10 6:02	KC	P0L0594
2-Chloronaphthalene	BRL	mg/kg dry	0.40	0.097	1	8270D	12/31/10 6:02	KC	P0L0594
2-Chlorophenol	BRL	mg/kg dry	0.40	0.11	1	8270D	12/31/10 6:02	KC	P0L0594
2-Methylnaphthalene	BRL	mg/kg dry	0.40	0.12	1	8270D	12/31/10 6:02	KC	P0L0594
2-Methylphenol	BRL	mg/kg dry	0.40	0.10	1	8270D	12/31/10 6:02	KC	P0L0594
2-Nitrophenol	BRL	mg/kg dry	0.40	0.092	1	8270D	12/31/10 6:02	KC	P0L0594
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.40	0.099	1	8270D	12/31/10 6:02	KC	P0L0594
3/4-Methylphenol	BRL	mg/kg dry	0.40	0.10	1	8270D	12/31/10 6:02	KC	P0L0594
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.40	0.065	1	8270D	12/31/10 6:02	KC	P0L0594
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.40	0.089	1	8270D	12/31/10 6:02	KC	P0L0594
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.40	0.092	1	8270D	12/31/10 6:02	KC	P0L0594
4-Chloroaniline	BRL	mg/kg dry	0.40	0.083	1	8270D	12/31/10 6:02	KC	P0L0594

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Asheville, NC 28806

Project: NCDOT Lenoir
Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-08
Prism Sample ID: 0120630-08
Prism Work Order: 0120630
Time Collected: 12/20/10 17:35
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.40	0.080	1	8270D	12/31/10 6:02	KC	P0L0594
4-Nitrophenol	BRL	mg/kg dry	0.40	0.055	1	8270D	12/31/10 6:02	KC	P0L0594
Acenaphthene	BRL	mg/kg dry	0.40	0.087	1	8270D	12/31/10 6:02	KC	P0L0594
Acenaphthylene	BRL	mg/kg dry	0.40	0.092	1	8270D	12/31/10 6:02	KC	P0L0594
Anthracene	BRL	mg/kg dry	0.40	0.092	1	8270D	12/31/10 6:02	KC	P0L0594
Azobenzene	BRL	mg/kg dry	0.40	0.090	1	8270D	12/31/10 6:02	KC	P0L0594
Benzo(a)anthracene	BRL	mg/kg dry	0.40	0.099	1	8270D	12/31/10 6:02	KC	P0L0594
Benzo(a)pyrene	BRL	mg/kg dry	0.40	0.054	1	8270D	12/31/10 6:02	KC	P0L0594
Benzo(b)fluoranthene	BRL	mg/kg dry	0.40	0.084	1	8270D	12/31/10 6:02	KC	P0L0594
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.40	0.073	1	8270D	12/31/10 6:02	KC	P0L0594
Benzo(k)fluoranthene	BRL	mg/kg dry	0.40	0.11	1	8270D	12/31/10 6:02	KC	P0L0594
Benzoic Acid	BRL	mg/kg dry	0.40	0.10	1	8270D	12/31/10 6:02	KC	P0L0594
Benzyl alcohol	BRL	mg/kg dry	0.40	0.10	1	8270D	12/31/10 6:02	KC	P0L0594
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.40	0.11	1	8270D	12/31/10 6:02	KC	P0L0594
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.40	0.11	1	8270D	12/31/10 6:02	KC	P0L0594
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.40	0.11	1	8270D	12/31/10 6:02	KC	P0L0594
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.40	0.13	1	8270D	12/31/10 6:02	KC	P0L0594
Butyl benzyl phthalate	BRL	mg/kg dry	0.40	0.12	1	8270D	12/31/10 6:02	KC	P0L0594
Chrysene	BRL	mg/kg dry	0.40	0.090	1	8270D	12/31/10 6:02	KC	P0L0594
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.40	0.094	1	8270D	12/31/10 6:02	KC	P0L0594
Dibenzofuran	BRL	mg/kg dry	0.40	0.088	1	8270D	12/31/10 6:02	KC	P0L0594
Diethyl phthalate	BRL	mg/kg dry	0.40	0.10	1	8270D	12/31/10 6:02	KC	P0L0594
Dimethyl phthalate	BRL	mg/kg dry	0.40	0.093	1	8270D	12/31/10 6:02	KC	P0L0594
Di-n-butyl phthalate	BRL	mg/kg dry	0.40	0.13	1	8270D	12/31/10 6:02	KC	P0L0594
Di-n-octyl phthalate	BRL	mg/kg dry	0.40	0.13	1	8270D	12/31/10 6:02	KC	P0L0594
Fluoranthene	BRL	mg/kg dry	0.40	0.11	1	8270D	12/31/10 6:02	KC	P0L0594
Fluorene	BRL	mg/kg dry	0.40	0.089	1	8270D	12/31/10 6:02	KC	P0L0594
Hexachlorobenzene	BRL	mg/kg dry	0.40	0.091	1	8270D	12/31/10 6:02	KC	P0L0594
Hexachlorobutadiene	BRL	mg/kg dry	0.40	0.10	1	8270D	12/31/10 6:02	KC	P0L0594
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.40	0.080	1	8270D	12/31/10 6:02	KC	P0L0594
Hexachloroethane	BRL	mg/kg dry	0.40	0.095	1	8270D	12/31/10 6:02	KC	P0L0594
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.40	0.10	1	8270D	12/31/10 6:02	KC	P0L0594
Isophorone	BRL	mg/kg dry	0.40	0.093	1	8270D	12/31/10 6:02	KC	P0L0594
Naphthalene	BRL	mg/kg dry	0.40	0.11	1	8270D	12/31/10 6:02	KC	P0L0594
Nitrobenzene	BRL	mg/kg dry	0.40	0.10	1	8270D	12/31/10 6:02	KC	P0L0594
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.40	0.091	1	8270D	12/31/10 6:02	KC	P0L0594
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.40	0.098	1	8270D	12/31/10 6:02	KC	P0L0594
Pentachlorophenol	BRL	mg/kg dry	0.40	0.11	1	8270D	12/31/10 6:02	KC	P0L0594
Phenanthrene	BRL	mg/kg dry	0.40	0.090	1	8270D	12/31/10 6:02	KC	P0L0594
Phenol	BRL	mg/kg dry	0.40	0.11	1	8270D	12/31/10 6:02	KC	P0L0594
Pyrene	BRL	mg/kg dry	0.40	0.098	1	8270D	12/31/10 6:02	KC	P0L0594

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*82 %*	*34-134*

Mactec - Asheville (NCDOT Project)
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P
Asheville, NC 28806

Project: NCDOT Lenoir
Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-08
Prism Sample ID: 0120630-08
Prism Work Order: 0120630
Time Collected: 12/20/10 17:35
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2-Fluorobiphenyl			*87 %*	*17-122*		
			2-Fluorophenol			*79 %*	*13-108*		
			Nitrobenzene-d5			*80 %*	*11-118*		
			Phenol-d5			*85 %*	*23-109*		
			Terphenyl-d14			*127 %*	*41-156*		
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0061	0.00082	1	8260B	12/29/10 16:54	KLA	P0L0575
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0061	0.00087	1	8260B	12/29/10 16:54	KLA	P0L0575
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0061	0.00079	1	8260B	12/29/10 16:54	KLA	P0L0575
1,1-Dichloroethane	BRL	mg/kg dry	0.0061	0.00058	1	8260B	12/29/10 16:54	KLA	P0L0575
1,1-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00062	1	8260B	12/29/10 16:54	KLA	P0L0575
1,1-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00064	1	8260B	12/29/10 16:54	KLA	P0L0575
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0061	0.0012	1	8260B	12/29/10 16:54	KLA	P0L0575
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0061	0.00067	1	8260B	12/29/10 16:54	KLA	P0L0575
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0061	0.0013	1	8260B	12/29/10 16:54	KLA	P0L0575
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0061	0.0012	1	8260B	12/29/10 16:54	KLA	P0L0575
1,2-Dibromoethane	BRL	mg/kg dry	0.0061	0.00078	1	8260B	12/29/10 16:54	KLA	P0L0575
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.00094	1	8260B	12/29/10 16:54	KLA	P0L0575
1,2-Dichloroethane	BRL	mg/kg dry	0.0061	0.00062	1	8260B	12/29/10 16:54	KLA	P0L0575
1,2-Dichloropropane	BRL	mg/kg dry	0.0061	0.00065	1	8260B	12/29/10 16:54	KLA	P0L0575
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0061	0.00093	1	8260B	12/29/10 16:54	KLA	P0L0575
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.0011	1	8260B	12/29/10 16:54	KLA	P0L0575
1,3-Dichloropropane	BRL	mg/kg dry	0.0061	0.00059	1	8260B	12/29/10 16:54	KLA	P0L0575
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.0010	1	8260B	12/29/10 16:54	KLA	P0L0575
2,2-Dichloropropane	BRL	mg/kg dry	0.0061	0.0010	1	8260B	12/29/10 16:54	KLA	P0L0575
2-Chlorotoluene	BRL	mg/kg dry	0.0061	0.00091	1	8260B	12/29/10 16:54	KLA	P0L0575
4-Chlorotoluene	BRL	mg/kg dry	0.0061	0.0011	1	8260B	12/29/10 16:54	KLA	P0L0575
4-Isopropyltoluene	BRL	mg/kg dry	0.0061	0.0012	1	8260B	12/29/10 16:54	KLA	P0L0575
Acetone	BRL	mg/kg dry	0.061	0.0091	1	8260B	12/29/10 16:54	KLA	P0L0575
Benzene	BRL	mg/kg dry	0.0037	0.00059	1	8260B	12/29/10 16:54	KLA	P0L0575
Bromobenzene	BRL	mg/kg dry	0.0061	0.00088	1	8260B	12/29/10 16:54	KLA	P0L0575
Bromochloromethane	BRL	mg/kg dry	0.0061	0.00057	1	8260B	12/29/10 16:54	KLA	P0L0575
Bromodichloromethane	BRL	mg/kg dry	0.0061	0.00060	1	8260B	12/29/10 16:54	KLA	P0L0575
Bromoform	BRL	mg/kg dry	0.0061	0.00063	1	8260B	12/29/10 16:54	KLA	P0L0575
Bromomethane	BRL	mg/kg dry	0.012	0.00077	1	8260B	12/29/10 16:54	KLA	P0L0575
Carbon Tetrachloride	BRL	mg/kg dry	0.0061	0.00061	1	8260B	12/29/10 16:54	KLA	P0L0575
Chlorobenzene	BRL	mg/kg dry	0.0061	0.00089	1	8260B	12/29/10 16:54	KLA	P0L0575
Chloroethane	BRL	mg/kg dry	0.012	0.00077	1	8260B	12/29/10 16:54	KLA	P0L0575
Chloroform	BRL	mg/kg dry	0.0061	0.00074	1	8260B	12/29/10 16:54	KLA	P0L0575
Chloromethane	BRL	mg/kg dry	0.0061	0.00065	1	8260B	12/29/10 16:54	KLA	P0L0575
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00065	1	8260B	12/29/10 16:54	KLA	P0L0575
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00064	1	8260B	12/29/10 16:54	KLA	P0L0575
Dibromochloromethane	BRL	mg/kg dry	0.0061	0.00066	1	8260B	12/29/10 16:54	KLA	P0L0575

Mactec - Asheville (NCDOT Project)
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P
Asheville, NC 28806

Project: NCDOT Lenoir
Project No.: U-2211-B Parcel 9
Sample Matrix: Soil

Client Sample ID: SS-08
Prism Sample ID: 0120630-08
Prism Work Order: 0120630
Time Collected: 12/20/10 17:35
Time Submitted: 12/22/10 16:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	mg/kg dry	0.0061	0.00072	1	8260B	12/29/10 16:54	KLA	P0L0575
Ethylbenzene	BRL	mg/kg dry	0.0061	0.00087	1	8260B	12/29/10 16:54	KLA	P0L0575
Isopropyl Ether	BRL	mg/kg dry	0.0061	0.00058	1	8260B	12/29/10 16:54	KLA	P0L0575
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0061	0.00093	1	8260B	12/29/10 16:54	KLA	P0L0575
m,p-Xylenes	BRL	mg/kg dry	0.012	0.0017	1	8260B	12/29/10 16:54	KLA	P0L0575
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.061	0.0035	1	8260B	12/29/10 16:54	KLA	P0L0575
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.0058	1	8260B	12/29/10 16:54	KLA	P0L0575
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.061	0.0012	1	8260B	12/29/10 16:54	KLA	P0L0575
Methylene Chloride	BRL	mg/kg dry	0.0061	0.00051	1	8260B	12/29/10 16:54	KLA	P0L0575
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.012	0.00042	1	8260B	12/29/10 16:54	KLA	P0L0575
Naphthalene	BRL	mg/kg dry	0.012	0.0012	1	8260B	12/29/10 16:54	KLA	P0L0575
n-Butylbenzene	BRL	mg/kg dry	0.0061	0.0011	1	8260B	12/29/10 16:54	KLA	P0L0575
n-Propylbenzene	BRL	mg/kg dry	0.0061	0.00099	1	8260B	12/29/10 16:54	KLA	P0L0575
o-Xylene	BRL	mg/kg dry	0.0061	0.00083	1	8260B	12/29/10 16:54	KLA	P0L0575
sec-Butylbenzene	BRL	mg/kg dry	0.0061	0.0012	1	8260B	12/29/10 16:54	KLA	P0L0575
Styrene	BRL	mg/kg dry	0.0061	0.00098	1	8260B	12/29/10 16:54	KLA	P0L0575
tert-Butylbenzene	BRL	mg/kg dry	0.0061	0.0010	1	8260B	12/29/10 16:54	KLA	P0L0575
Tetrachloroethylene	BRL	mg/kg dry	0.0061	0.00089	1	8260B	12/29/10 16:54	KLA	P0L0575
Toluene	BRL	mg/kg dry	0.0061	0.00079	1	8260B	12/29/10 16:54	KLA	P0L0575
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00091	1	8260B	12/29/10 16:54	KLA	P0L0575
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00064	1	8260B	12/29/10 16:54	KLA	P0L0575
Trichloroethylene	BRL	mg/kg dry	0.0061	0.00062	1	8260B	12/29/10 16:54	KLA	P0L0575
Trichlorofluoromethane	BRL	mg/kg dry	0.0061	0.00069	1	8260B	12/29/10 16:54	KLA	P0L0575
Vinyl acetate	BRL	mg/kg dry	0.031	0.00090	1	8260B	12/29/10 16:54	KLA	P0L0575
Vinyl chloride	BRL	mg/kg dry	0.0061	0.00070	1	8260B	12/29/10 16:54	KLA	P0L0575
Xylenes, total	BRL	mg/kg dry	0.018	0.0025	1	8260B	12/29/10 16:54	KLA	P0L0575

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*94 %*	*70-130*
Dibromofluoromethane	*103 %*	*84-123*
Toluene-d8	*88 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	3.8	1.4	100	MADEP VPH	12/31/10 10:01	hea	P0L0585
C9-C12 Aliphatics	BRL	mg/kg dry	3.8	1.4	100	MADEP VPH	12/31/10 10:01	hea	P0L0585
C9-C10 Aromatics	BRL	mg/kg dry	3.8	0.41	100	MADEP VPH	12/31/10 10:01	hea	P0L0585

Surrogate	Recovery	Control Limits	
2,5-Dibromotoluene (PID)	*136 %*	*70-130*	4, *SR*
2,5-Dibromotoluene (FID)	*170 %*	*70-130*	4, *SR*

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P; Project No: U-2211-B Parcel 9
Asheville, NC 28806

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0575 - 5035										
Blank (P0L0575-BLK1)				Prepared & Analyzed: 12/29/10						
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							

Mactec - Asheville (NCDOT Project)
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P
Asheville, NC 28806

Project: NCDOT Lenoir
Project No: U-2211-B Parcel 9

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0575 - 5035										
Blank (P0L0575-BLK1)				Prepared & Analyzed: 12/29/10						
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*48.1*		*ug/L*	*50.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*51.7*		*ug/L*	*50.0*		*103*	*84-123*			
Surrogate: Toluene-d8	*44.7*		*ug/L*	*50.0*		*89*	*76-129*			
LCS (P0L0575-BS1)				Prepared & Analyzed: 12/29/10						
1,1-Dichloroethylene	0.0575	0.0050	mg/kg wet	0.0500		115	67-149			
Benzene	0.0519	0.0030	mg/kg wet	0.0500		104	74-127			
Chlorobenzene	0.0436	0.0050	mg/kg wet	0.0500		87	74-118			
Toluene	0.0523	0.0050	mg/kg wet	0.0500		105	71-129			
Trichloroethylene	0.0528	0.0050	mg/kg wet	0.0500		106	75-133			
Surrogate: 4-Bromofluorobenzene	*52.4*		*ug/L*	*50.0*		*105*	*70-130*			
Surrogate: Dibromofluoromethane	*50.4*		*ug/L*	*50.0*		*101*	*84-123*			
Surrogate: Toluene-d8	*43.8*		*ug/L*	*50.0*		*88*	*76-129*			

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P: Project No: U-2211-B Parcel 9
Asheville, NC 28806

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0575 - 5035										
LCS Dup (P0L0575-BSD1)				Prepared & Analyzed: 12/29/10						
1,1-Dichloroethylene	0.0594	0.0050	mg/kg wet	0.0500		119	67-149	3	200	
Benzene	0.0540	0.0030	mg/kg wet	0.0500		108	74-127	4	200	
Chlorobenzene	0.0453	0.0050	mg/kg wet	0.0500		91	74-118	4	200	
Toluene	0.0539	0.0050	mg/kg wet	0.0500		108	71-129	3	200	
Trichloroethylene	0.0548	0.0050	mg/kg wet	0.0500		110	75-133	4	200	
Surrogate: 4-Bromofluorobenzene	*49.4*		*ug/L*	*50.0*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*49.8*		*ug/L*	*50.0*		*100*	*84-123*			
Surrogate: Toluene-d8	*44.3*		*ug/L*	*50.0*		*89*	*76-129*			

Mactec - Asheville (NCDOT Project)
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Asheville, NC 28806

Project: NCDOT Lenoir
Project No: U-2211-B Parcel 9

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0594 - 3550C MS										
Blank (P0L0594-BLK1)				Prepared & Analyzed: 12/30/10						
1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							
Di-n-octyl phthalate	BRL	0.33	mg/kg wet							

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P; Project No: U-2211-B Parcel 9
Asheville, NC 28806

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0594 - 3550C MS										
Blank (P0L0594-BLK1)				Prepared & Analyzed: 12/30/10						
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*2.76*		*mg/kg wet*	*3.32*		*83*	*34-134*			
Surrogate: 2-Fluorobiphenyl	*1.43*		*mg/kg wet*	*1.66*		*86*	*17-122*			
Surrogate: 2-Fluorophenol	*2.78*		*mg/kg wet*	*3.32*		*84*	*13-108*			
Surrogate: Nitrobenzene-d5	*1.37*		*mg/kg wet*	*1.66*		*83*	*11-118*			
Surrogate: Phenol-d5	*2.87*		*mg/kg wet*	*3.32*		*87*	*23-109*			
Surrogate: Terphenyl-d14	*1.97*		*mg/kg wet*	*1.66*		*119*	*41-156*			
LCS (P0L0594-BS1)				Prepared: 12/30/10 Analyzed: 12/31/10						
1,2,4-Trichlorobenzene	1.33	0.33	mg/kg wet	1.66		80	35-95			
1,2-Dichlorobenzene	1.29	0.33	mg/kg wet	1.66		78	34-94			
1,3-Dichlorobenzene	1.23	0.33	mg/kg wet	1.66		74	31-92			
1,4-Dichlorobenzene	1.27	0.33	mg/kg wet	1.66		77	33-92			
2,4,6-Trichlorophenol	1.48	0.33	mg/kg wet	1.66		89	43-110			
2,4-Dichlorophenol	1.32	0.33	mg/kg wet	1.66		80	37-103			
2,4-Dimethylphenol	1.38	0.33	mg/kg wet	1.66		83	39-105			
2,4-Dinitrophenol	0.922	0.33	mg/kg wet	1.66		56	28-129			
2,4-Dinitrotoluene	1.68	0.33	mg/kg wet	1.66		102	59-115			
2,6-Dinitrotoluene	1.60	0.33	mg/kg wet	1.66		97	52-120			
2-Chloronaphthalene	1.61	0.33	mg/kg wet	1.66		97	41-104			
2-Chlorophenol	1.39	0.33	mg/kg wet	1.66		84	35-98			
2-Methylnaphthalene	1.34	0.33	mg/kg wet	1.66		81	31-106			
2-Methylphenol	1.38	0.33	mg/kg wet	1.66		83	32-108			
2-Nitrophenol	1.29	0.33	mg/kg wet	1.66		78	35-100			
3,3'-Dichlorobenzidine	1.88	0.33	mg/kg wet	1.66		114	10-200			
3/4-Methylphenol	1.40	0.33	mg/kg wet	1.66		84	36-103			
4,6-Dinitro-2-methylphenol	1.07	0.33	mg/kg wet	1.66		65	44-124			
4-Bromophenyl phenyl ether	1.75	0.33	mg/kg wet	1.66		106	44-119			
4-Chloro-3-methylphenol	1.40	0.33	mg/kg wet	1.66		85	48-106			
4-Chloroaniline	1.13	0.33	mg/kg wet	1.66		68	45-103			
4-Chlorophenyl phenyl ether	1.66	0.33	mg/kg wet	1.66		100	53-109			
4-Nitrophenol	1.66	0.33	mg/kg wet	1.66		100	40-124			

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P: Project No: U-2211-B Parcel 9
Asheville, NC 28806

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0594 - 3550C MS										
LCS (P0L0594-BS1)				Prepared: 12/30/10 Analyzed: 12/31/10						
Acenaphthene	1.55	0.33	mg/kg wet	1.66		93	47-106			
Acenaphthylene	1.42	0.33	mg/kg wet	1.66		86	47-113			
Anthracene	1.53	0.33	mg/kg wet	1.66		92	57-121			
Azobenzene	1.64	0.33	mg/kg wet	1.66		99	49-117			
Benzo(a)anthracene	1.76	0.33	mg/kg wet	1.66		106	55-123			
Benzo(a)pyrene	1.63	0.33	mg/kg wet	1.66		98	61-120			
Benzo(b)fluoranthene	1.63	0.33	mg/kg wet	1.66		99	52-126			
Benzo(g,h,i)perylene	1.73	0.33	mg/kg wet	1.66		104	53-121			
Benzo(k)fluoranthene	1.63	0.33	mg/kg wet	1.66		98	50-131			
Benzoic Acid	0.628	0.33	mg/kg wet	1.66		38	10-75			
Benzyl alcohol	1.30	0.33	mg/kg wet	1.66		78	35-101			
bis(2-Chloroethoxy)methane	1.36	0.33	mg/kg wet	1.66		82	37-106			
Bis(2-Chloroethyl)ether	1.39	0.33	mg/kg wet	1.66		84	33-99			
Bis(2-chloroisopropyl)ether	1.47	0.33	mg/kg wet	1.66		89	26-106			
Bis(2-Ethylhexyl)phthalate	2.24	0.33	mg/kg wet	1.66		135	50-142			
Butyl benzyl phthalate	2.37	0.33	mg/kg wet	1.66		143	49-143			
Chrysene	1.77	0.33	mg/kg wet	1.66		107	53-126			
Dibenzo(a,h)anthracene	1.73	0.33	mg/kg wet	1.66		104	53-124			
Dibenzofuran	1.46	0.33	mg/kg wet	1.66		88	48-109			
Diethyl phthalate	1.91	0.33	mg/kg wet	1.66		116	59-118			
Dimethyl phthalate	1.77	0.33	mg/kg wet	1.66		107	58-113			
Di-n-butyl phthalate	1.98	0.33	mg/kg wet	1.66		120	51-129			
Di-n-octyl phthalate	2.03	0.33	mg/kg wet	1.66		122	49-140			
Fluoranthene	1.20	0.33	mg/kg wet	1.66		73	52-122			
Fluorene	1.68	0.33	mg/kg wet	1.66		101	52-110			
Hexachlorobenzene	1.70	0.33	mg/kg wet	1.66		103	52-117			
Hexachlorobutadiene	1.23	0.33	mg/kg wet	1.66		74	35-101			
Hexachlorocyclopentadiene	1.03	0.33	mg/kg wet	1.66		62	31-111			
Hexachloroethane	1.24	0.33	mg/kg wet	1.66		75	30-93			
Indeno(1,2,3-cd)pyrene	1.83	0.33	mg/kg wet	1.66		111	40-133			
Isophorone	1.29	0.33	mg/kg wet	1.66		78	41-103			
Naphthalene	1.46	0.33	mg/kg wet	1.66		88	38-98			
Nitrobenzene	1.30	0.33	mg/kg wet	1.66		78	28-110			
N-Nitroso-di-n-propylamine	1.35	0.33	mg/kg wet	1.66		81	36-104			
N-Nitrosodiphenylamine	1.83	0.33	mg/kg wet	1.66		111	57-134			
Pentachlorophenol	1.37	0.33	mg/kg wet	1.66		83	48-136			
Phenanthrene	1.68	0.33	mg/kg wet	1.66		101	57-118			
Phenol	1.33	0.33	mg/kg wet	1.66		80	27-107			
Pyrene	2.46	0.33	mg/kg wet	1.66		149	48-132			H
Surrogate: 2,4,6-Tribromophenol	*3.14*		*mg/kg wet*	*3.31*		*95*	*34-134*			
Surrogate: 2-Fluorobiphenyl	*1.43*		*mg/kg wet*	*1.66*		*87*	*17-122*			
Surrogate: 2-Fluorophenol	*2.35*		*mg/kg wet*	*3.31*		*71*	*13-108*			
Surrogate: Nitrobenzene-d5	*1.37*		*mg/kg wet*	*1.66*		*83*	*11-118*			
Surrogate: Phenol-d5	*2.68*		*mg/kg wet*	*3.31*		*81*	*23-109*			
Surrogate: Terphenyl-d14	*2.13*		*mg/kg wet*	*1.66*		*128*	*41-156*			

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P Project No: U-2211-B Parcel 9
Asheville, NC 28806

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0594 - 3550C MS										
LCS Dup (P0L0594-BSD1)				Prepared: 12/30/10 Analyzed: 12/31/10						
1,2,4-Trichlorobenzene	1.46	0.33	mg/kg wet	1.66		88	35-95	9	200	
1,2-Dichlorobenzene	1.47	0.33	mg/kg wet	1.66		88	34-94	13	200	
1,3-Dichlorobenzene	1.39	0.33	mg/kg wet	1.66		84	31-92	13	200	
1,4-Dichlorobenzene	1.52	0.33	mg/kg wet	1.66		92	33-92	18	200	
2,4,6-Trichlorophenol	1.71	0.33	mg/kg wet	1.66		103	43-110	15	200	
2,4-Dichlorophenol	1.64	0.33	mg/kg wet	1.66		98	37-103	22	200	
2,4-Dimethylphenol	1.61	0.33	mg/kg wet	1.66		96	39-105	15	200	
2,4-Dinitrophenol	1.11	0.33	mg/kg wet	1.66		67	28-129	18	200	
2,4-Dinitrotoluene	1.70	0.33	mg/kg wet	1.66		102	59-115	0.8	200	
2,6-Dinitrotoluene	1.77	0.33	mg/kg wet	1.66		107	52-120	10	200	
2-Chloronaphthalene	1.88	0.33	mg/kg wet	1.66		113	41-104	15	200	L2
2-Chlorophenol	1.55	0.33	mg/kg wet	1.66		93	35-98	10	200	
2-Methylnaphthalene	1.67	0.33	mg/kg wet	1.66		100	31-106	22	200	
2-Methylphenol	1.55	0.33	mg/kg wet	1.66		93	32-108	11	200	
2-Nitrophenol	1.65	0.33	mg/kg wet	1.66		99	35-100	24	200	
3,3'-Dichlorobenzidine	2.12	0.33	mg/kg wet	1.66		128	10-200	12	200	
3/4-Methylphenol	1.62	0.33	mg/kg wet	1.66		97	36-103	15	200	
4,6-Dinitro-2-methylphenol	1.32	0.33	mg/kg wet	1.66		79	44-124	20	200	
4-Bromophenyl phenyl ether	1.85	0.33	mg/kg wet	1.66		111	44-119	5	200	
4-Chloro-3-methylphenol	1.75	0.33	mg/kg wet	1.66		105	48-106	22	200	
4-Chloroaniline	1.49	0.33	mg/kg wet	1.66		90	45-103	28	200	
4-Chlorophenyl phenyl ether	1.81	0.33	mg/kg wet	1.66		109	53-109	8	200	
4-Nitrophenol	1.73	0.33	mg/kg wet	1.66		104	40-124	4	200	
Acenaphthene	1.72	0.33	mg/kg wet	1.66		104	47-106	11	200	
Acenaphthylene	1.73	0.33	mg/kg wet	1.66		104	47-113	19	200	
Anthracene	1.65	0.33	mg/kg wet	1.66		99	57-121	7	200	
Azobenzene	1.71	0.33	mg/kg wet	1.66		103	49-117	4	200	
Benzo(a)anthracene	1.81	0.33	mg/kg wet	1.66		109	55-123	3	200	
Benzo(a)pyrene	1.70	0.33	mg/kg wet	1.66		102	61-120	4	200	
Benzo(b)fluoranthene	1.82	0.33	mg/kg wet	1.66		109	52-126	11	200	
Benzo(g,h,i)perylene	1.89	0.33	mg/kg wet	1.66		114	53-121	9	200	
Benzo(k)fluoranthene	1.61	0.33	mg/kg wet	1.66		97	50-131	0.9	200	
Benzoic Acid	0.661	0.33	mg/kg wet	1.66		40	10-75	5	200	
Benzyl alcohol	1.52	0.33	mg/kg wet	1.66		91	35-101	16	200	
bis(2-Chloroethoxy)methane	1.66	0.33	mg/kg wet	1.66		100	37-106	20	200	
Bis(2-Chloroethyl)ether	1.59	0.33	mg/kg wet	1.66		96	33-99	14	200	
Bis(2-chloroisopropyl)ether	1.71	0.33	mg/kg wet	1.66		103	26-106	15	200	
Bis(2-Ethylhexyl)phthalate	2.33	0.33	mg/kg wet	1.66		140	50-142	4	200	
Butyl benzyl phthalate	2.39	0.33	mg/kg wet	1.66		144	49-143	1	200	L2
Chrysene	1.89	0.33	mg/kg wet	1.66		114	53-126	7	200	
Dibenzo(a,h)anthracene	1.98	0.33	mg/kg wet	1.66		119	53-124	14	200	
Dibenzofuran	1.66	0.33	mg/kg wet	1.66		100	48-109	13	200	
Diethyl phthalate	2.00	0.33	mg/kg wet	1.66		120	59-118	4	200	L2
Dimethyl phthalate	1.97	0.33	mg/kg wet	1.66		118	58-113	10	200	L2
Di-n-butyl phthalate	2.04	0.33	mg/kg wet	1.66		123	51-129	3	200	
Di-n-octyl phthalate	1.99	0.33	mg/kg wet	1.66		120	49-140	2	200	

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
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c/o MACTEC Eng. & Consulting, Inc, 1308 P: Project No: U-2211-B Parcel 9
Asheville, NC 28806

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0594 - 3550C MS										
LCS Dup (P0L0594-BSD1)				Prepared: 12/30/10 Analyzed: 12/31/10						
Fluoranthene	1.37	0.33	mg/kg wet	1.66		82	52-122	13	200	
Fluorene	1.80	0.33	mg/kg wet	1.66		108	52-110	7	200	
Hexachlorobenzene	1.73	0.33	mg/kg wet	1.66		104	52-117	2	200	
Hexachlorobutadiene	1.66	0.33	mg/kg wet	1.66		100	35-101	30	200	
Hexachlorocyclopentadiene	1.28	0.33	mg/kg wet	1.66		77	31-111	22	200	
Hexachloroethane	1.44	0.33	mg/kg wet	1.66		87	30-93	15	200	
Indeno(1,2,3-cd)pyrene	1.99	0.33	mg/kg wet	1.66		120	40-133	9	200	
Isophorone	1.55	0.33	mg/kg wet	1.66		93	41-103	19	200	
Naphthalene	1.68	0.33	mg/kg wet	1.66		101	38-98	14	200	L2
Nitrobenzene	1.57	0.33	mg/kg wet	1.66		95	28-110	19	200	
N-Nitroso-di-n-propylamine	1.58	0.33	mg/kg wet	1.66		95	36-104	16	200	
N-Nitrosodiphenylamine	1.86	0.33	mg/kg wet	1.66		112	57-134	2	200	
Pentachlorophenol	1.54	0.33	mg/kg wet	1.66		93	48-136	12	200	
Phenanthrene	1.75	0.33	mg/kg wet	1.66		105	57-118	4	200	
Phenol	1.39	0.33	mg/kg wet	1.66		83	27-107	4	200	
Pyrene	2.57	0.33	mg/kg wet	1.66		154	48-132	4	200	H
Surrogate: 2,4,6-Tribromophenol	*3.38*		*mg/kg wet*	*3.33*		*102*	*34-134*			
Surrogate: 2-Fluorobiphenyl	*1.58*		*mg/kg wet*	*1.66*		*95*	*17-122*			
Surrogate: 2-Fluorophenol	*2.65*		*mg/kg wet*	*3.33*		*80*	*13-108*			
Surrogate: Nitrobenzene-d5	*1.63*		*mg/kg wet*	*1.66*		*98*	*11-118*			
Surrogate: Phenol-d5	*2.88*		*mg/kg wet*	*3.33*		*87*	*23-109*			
Surrogate: Terphenyl-d14	*2.14*		*mg/kg wet*	*1.66*		*128*	*41-156*			
Matrix Spike (P0L0594-MS1)		**Source: 0120630-08**		Prepared: 12/30/10 Analyzed: 12/31/10						
1,2,4-Trichlorobenzene	1.86	0.41	mg/kg dry	2.05	BRL	91	25-104			
1,2-Dichlorobenzene	1.82	0.41	mg/kg dry	2.05	BRL	89	22-103			
1,3-Dichlorobenzene	1.71	0.41	mg/kg dry	2.05	BRL	83	18-101			
1,4-Dichlorobenzene	1.82	0.41	mg/kg dry	2.05	BRL	89	14-108			
2,4,6-Trichlorophenol	2.18	0.41	mg/kg dry	2.05	BRL	106	44-115			
2,4-Dichlorophenol	2.05	0.41	mg/kg dry	2.05	BRL	100	26-120			
2,4-Dimethylphenol	1.93	0.41	mg/kg dry	2.05	BRL	94	33-113			
2,4-Dinitrophenol	1.42	0.41	mg/kg dry	2.05	BRL	69	14-148			
2,4-Dinitrotoluene	2.16	0.41	mg/kg dry	2.05	BRL	105	49-134			
2,6-Dinitrotoluene	2.01	0.41	mg/kg dry	2.05	BRL	98	44-131			
2-Chloronaphthalene	2.28	0.41	mg/kg dry	2.05	BRL	111	38-112			
2-Chlorophenol	1.92	0.41	mg/kg dry	2.05	BRL	94	26-108			
2-Methylnaphthalene	2.05	0.41	mg/kg dry	2.05	BRL	100	12-128			
2-Methylphenol	1.88	0.41	mg/kg dry	2.05	BRL	92	26-116			
2-Nitrophenol	1.94	0.41	mg/kg dry	2.05	BRL	95	20-119			
3,3'-Dichlorobenzidine	2.13	0.41	mg/kg dry	2.05	BRL	104	10-191			
3/4-Methylphenol	2.01	0.41	mg/kg dry	2.05	BRL	98	28-116			
4,6-Dinitro-2-methylphenol	1.71	0.41	mg/kg dry	2.05	BRL	84	30-148			
4-Bromophenyl phenyl ether	2.32	0.41	mg/kg dry	2.05	BRL	113	43-126			
4-Chloro-3-methylphenol	2.24	0.41	mg/kg dry	2.05	BRL	109	41-120			
4-Chloroaniline	1.68	0.41	mg/kg dry	2.05	BRL	82	35-115			
4-Chlorophenyl phenyl ether	2.12	0.41	mg/kg dry	2.05	BRL	103	45-123			
4-Nitrophenol	2.07	0.41	mg/kg dry	2.05	BRL	101	33-136			

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
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Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0594 - 3550C MS										
Matrix Spike (P0L0594-MS1)	**Source: 0120630-08**			Prepared: 12/30/10 Analyzed: 12/31/10						
Acenaphthene	2.14	0.41	mg/kg dry	2.05	BRL	105	46-115			
Acenaphthylene	2.10	0.41	mg/kg dry	2.05	BRL	102	40-125			
Anthracene	1.83	0.41	mg/kg dry	2.05	BRL	89	56-127			
Azobenzene	2.18	0.41	mg/kg dry	2.05	BRL	106	49-123			
Benzo(a)anthracene	2.25	0.41	mg/kg dry	2.05	BRL	110	50-134			
Benzo(a)pyrene	1.99	0.41	mg/kg dry	2.05	BRL	97	59-129			
Benzo(b)fluoranthene	2.36	0.41	mg/kg dry	2.05	BRL	115	46-141			
Benzo(g,h,i)perylene	2.37	0.41	mg/kg dry	2.05	BRL	116	47-136			
Benzo(k)fluoranthene	2.12	0.41	mg/kg dry	2.05	BRL	103	36-151			
Benzoic Acid	1.45	0.41	mg/kg dry	2.05	BRL	71	10-122			
Benzyl alcohol	1.93	0.41	mg/kg dry	2.05	BRL	94	29-112			
bis(2-Chloroethoxy)methane	2.03	0.41	mg/kg dry	2.05	BRL	99	31-119			
Bis(2-Chloroethyl)ether	2.00	0.41	mg/kg dry	2.05	BRL	98	23-111			
Bis(2-chloroisopropyl)ether	1.98	0.41	mg/kg dry	2.05	BRL	97	22-109			
Bis(2-Ethylhexyl)phthalate	2.90	0.41	mg/kg dry	2.05	BRL	142	45-153			
Butyl benzyl phthalate	3.06	0.41	mg/kg dry	2.05	BRL	150	43-156			
Chrysene	2.33	0.41	mg/kg dry	2.05	BRL	114	46-140			
Dibenzo(a,h)anthracene	2.36	0.41	mg/kg dry	2.05	BRL	115	43-141			
Dibenzofuran	2.08	0.41	mg/kg dry	2.05	BRL	101	45-121			
Diethyl phthalate	2.21	0.41	mg/kg dry	2.05	BRL	108	53-128			
Dimethyl phthalate	2.16	0.41	mg/kg dry	2.05	BRL	105	54-123			
Di-n-butyl phthalate	2.32	0.41	mg/kg dry	2.05	BRL	113	44-137			
Di-n-octyl phthalate	2.80	0.41	mg/kg dry	2.05	BRL	137	45-151			
Fluoranthene	1.86	0.41	mg/kg dry	2.05	BRL	91	37-140			
Fluorene	2.29	0.41	mg/kg dry	2.05	BRL	112	49-119			
Hexachlorobenzene	2.29	0.41	mg/kg dry	2.05	BRL	112	47-128			
Hexachlorobutadiene	1.84	0.41	mg/kg dry	2.05	BRL	90	24-107			
Hexachlorocyclopentadiene	1.64	0.41	mg/kg dry	2.05	BRL	80	20-121			
Hexachloroethane	1.76	0.41	mg/kg dry	2.05	BRL	86	17-102			
Indeno(1,2,3-cd)pyrene	2.45	0.41	mg/kg dry	2.05	BRL	120	27-156			
Isophorone	2.00	0.41	mg/kg dry	2.05	BRL	98	22-130			
Naphthalene	2.10	0.41	mg/kg dry	2.05	BRL	103	27-111			
Nitrobenzene	1.84	0.41	mg/kg dry	2.05	BRL	90	23-120			
N-Nitroso-di-n-propylamine	1.95	0.41	mg/kg dry	2.05	BRL	95	27-120			
N-Nitrosodiphenylamine	2.50	0.41	mg/kg dry	2.05	BRL	122	46-153			
Pentachlorophenol	2.00	0.41	mg/kg dry	2.05	BRL	97	36-155			
Phenanthrene	2.19	0.41	mg/kg dry	2.05	BRL	107	48-137			
Phenol	1.84	0.41	mg/kg dry	2.05	BRL	90	23-115			
Pyrene	2.97	0.41	mg/kg dry	2.05	BRL	145	43-146			
Surrogate: 2,4,6-Tribromophenol	*3.79*		*mg/kg dry*	*4.10*		*92*	*34-134*			
Surrogate: 2-Fluorobiphenyl	*1.97*		*mg/kg dry*	*2.05*		*96*	*17-122*			
Surrogate: 2-Fluorophenol	*3.30*		*mg/kg dry*	*4.10*		*81*	*13-108*			
Surrogate: Nitrobenzene-d5	*1.91*		*mg/kg dry*	*2.05*		*93*	*11-118*			
Surrogate: Phenol-d5	*3.70*		*mg/kg dry*	*4.10*		*90*	*23-109*			
Surrogate: Terphenyl-d14	*2.64*		*mg/kg dry*	*2.05*		*129*	*41-156*			

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P: Project No: U-2211-B Parcel 9
Asheville, NC 28806

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0594 - 3550C MS										
Matrix Spike Dup (P0L0594-MSD1)	**Source: 0120630-08**			Prepared: 12/30/10 Analyzed: 12/31/10						
1,2,4-Trichlorobenzene	1.31	0.41	mg/kg dry	2.05	BRL	64	25-104	34	46	
1,2-Dichlorobenzene	1.21	0.41	mg/kg dry	2.05	BRL	59	22-103	40	49	
1,3-Dichlorobenzene	1.24	0.41	mg/kg dry	2.05	BRL	60	18-101	32	55	
1,4-Dichlorobenzene	1.30	0.41	mg/kg dry	2.05	BRL	63	14-108	33	50	
2,4,6-Trichlorophenol	1.51	0.41	mg/kg dry	2.05	BRL	74	44-115	36	35	D
2,4-Dichlorophenol	1.36	0.41	mg/kg dry	2.05	BRL	67	26-120	40	45	
2,4-Dimethylphenol	1.23	0.41	mg/kg dry	2.05	BRL	60	33-113	44	47	
2,4-Dinitrophenol	1.11	0.41	mg/kg dry	2.05	BRL	54	14-148	24	39	
2,4-Dinitrotoluene	1.75	0.41	mg/kg dry	2.05	BRL	85	49-134	21	28	
2,6-Dinitrotoluene	1.85	0.41	mg/kg dry	2.05	BRL	90	44-131	8	31	
2-Chloronaphthalene	1.66	0.41	mg/kg dry	2.05	BRL	81	38-112	31	37	
2-Chlorophenol	1.37	0.41	mg/kg dry	2.05	BRL	67	26-108	33	51	
2-Methylnaphthalene	1.49	0.41	mg/kg dry	2.05	BRL	73	12-128	32	48	
2-Methylphenol	1.30	0.41	mg/kg dry	2.05	BRL	63	26-116	37	48	
2-Nitrophenol	1.32	0.41	mg/kg dry	2.05	BRL	65	20-119	38	44	
3,3'-Dichlorobenzidine	1.92	0.41	mg/kg dry	2.05	BRL	94	10-191	10	35	
3/4-Methylphenol	1.38	0.41	mg/kg dry	2.05	BRL	67	28-116	37	45	
4,6-Dinitro-2-methylphenol	1.35	0.41	mg/kg dry	2.05	BRL	66	30-148	24	27	
4-Bromophenyl phenyl ether	1.99	0.41	mg/kg dry	2.05	BRL	97	43-126	15	26	
4-Chloro-3-methylphenol	1.82	0.41	mg/kg dry	2.05	BRL	89	41-120	21	35	
4-Chloroaniline	1.32	0.41	mg/kg dry	2.05	BRL	64	35-115	24	41	
4-Chlorophenyl phenyl ether	1.97	0.41	mg/kg dry	2.05	BRL	96	45-123	7	30	
4-Nitrophenol	1.83	0.41	mg/kg dry	2.05	BRL	89	33-136	12	31	
Acenaphthene	1.74	0.41	mg/kg dry	2.05	BRL	85	46-115	21	35	
Acenaphthylene	1.62	0.41	mg/kg dry	2.05	BRL	79	40-125	25	35	
Anthracene	1.71	0.41	mg/kg dry	2.05	BRL	84	56-127	6	26	
Azobenzene	1.83	0.41	mg/kg dry	2.05	BRL	90	49-123	17	30	
Benzo(a)anthracene	1.88	0.41	mg/kg dry	2.05	BRL	92	50-134	18	25	
Benzo(a)pyrene	1.83	0.41	mg/kg dry	2.05	BRL	89	59-129	9	22	
Benzo(b)fluoranthene	2.00	0.41	mg/kg dry	2.05	BRL	98	46-141	17	33	
Benzo(g,h,i)perylene	1.72	0.41	mg/kg dry	2.05	BRL	84	47-136	32	26	D
Benzo(k)fluoranthene	1.86	0.41	mg/kg dry	2.05	BRL	91	36-151	13	38	
Benzoic Acid	1.07	0.41	mg/kg dry	2.05	BRL	52	10-122	31	60	
Benzyl alcohol	1.27	0.41	mg/kg dry	2.05	BRL	62	29-112	42	43	
bis(2-Chloroethoxy)methane	1.42	0.41	mg/kg dry	2.05	BRL	69	31-119	36	46	
Bis(2-Chloroethyl)ether	1.29	0.41	mg/kg dry	2.05	BRL	63	23-111	43	54	
Bis(2-chloroisopropyl)ether	1.32	0.41	mg/kg dry	2.05	BRL	64	22-109	40	50	
Bis(2-Ethylhexyl)phthalate	2.55	0.41	mg/kg dry	2.05	BRL	125	45-153	13	26	
Butyl benzyl phthalate	2.82	0.41	mg/kg dry	2.05	BRL	138	43-156	8	22	
Chrysene	2.04	0.41	mg/kg dry	2.05	BRL	100	46-140	13	32	
Dibenzo(a,h)anthracene	1.91	0.41	mg/kg dry	2.05	BRL	93	43-141	21	25	
Dibenzofuran	1.61	0.41	mg/kg dry	2.05	BRL	79	45-121	25	36	
Diethyl phthalate	2.10	0.41	mg/kg dry	2.05	BRL	103	53-128	5	20	
Dimethyl phthalate	1.99	0.41	mg/kg dry	2.05	BRL	97	54-123	8	24	
Di-n-butyl phthalate	2.08	0.41	mg/kg dry	2.05	BRL	102	44-137	11	33	
Di-n-octyl phthalate	2.47	0.41	mg/kg dry	2.05	BRL	121	45-151	13	25	

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P: Project No: U-2211-B Parcel 9
Asheville, NC 28806

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0594 - 3550C MS										
Matrix Spike Dup (P0L0594-MSD1)		**Source: 0120630-08**		Prepared: 12/30/10 Analyzed: 12/31/10						
Fluoranthene	1.55	0.41	mg/kg dry	2.05	BRL	76	37-140	18	35	
Fluorene	1.85	0.41	mg/kg dry	2.05	BRL	90	49-119	21	31	
Hexachlorobenzene	1.91	0.41	mg/kg dry	2.05	BRL	94	47-128	18	23	
Hexachlorobutadiene	1.24	0.41	mg/kg dry	2.05	BRL	60	24-107	39	50	
Hexachlorocyclopentadiene	0.971	0.41	mg/kg dry	2.05	BRL	47	20-121	51	50	D
Hexachloroethane	1.19	0.41	mg/kg dry	2.05	BRL	58	17-102	39	50	
Indeno(1,2,3-cd)pyrene	1.92	0.41	mg/kg dry	2.05	BRL	94	27-156	24	35	
Isophorone	1.38	0.41	mg/kg dry	2.05	BRL	67	22-130	37	37	
Naphthalene	1.45	0.41	mg/kg dry	2.05	BRL	71	27-111	37	51	
Nitrobenzene	1.29	0.41	mg/kg dry	2.05	BRL	63	23-120	35	43	
N-Nitroso-di-n-propylamine	1.29	0.41	mg/kg dry	2.05	BRL	63	27-120	40	47	
N-Nitrosodiphenylamine	2.14	0.41	mg/kg dry	2.05	BRL	105	46-153	16	29	
Pentachlorophenol	1.61	0.41	mg/kg dry	2.05	BRL	79	36-155	21	31	
Phenanthrene	1.88	0.41	mg/kg dry	2.05	BRL	92	48-137	15	32	
Phenol	1.34	0.41	mg/kg dry	2.05	BRL	66	23-115	31	56	
Pyrene	2.83	0.41	mg/kg dry	2.05	BRL	138	43-146	5	31	
Surrogate: 2,4,6-Tribromophenol	*3.38*		*mg/kg dry*	*4.09*		*83*	*34-134*			
Surrogate: 2-Fluorobiphenyl	*1.36*		*mg/kg dry*	*2.05*		*67*	*17-122*			
Surrogate: 2-Fluorophenol	*2.33*		*mg/kg dry*	*4.09*		*57*	*13-108*			
Surrogate: Nitrobenzene-d5	*1.30*		*mg/kg dry*	*2.05*		*64*	*11-118*			
Surrogate: Phenol-d5	*2.51*		*mg/kg dry*	*4.09*		*61*	*23-109*			
Surrogate: Terphenyl-d14	*2.47*		*mg/kg dry*	*2.05*		*121*	*41-156*			

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P; Project No: U-2211-B Parcel 9
Asheville, NC 28806

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0585 - MADEP VPH (S)										
Blank (P0L0585-BLK1)				Prepared: 12/30/10 Analyzed: 12/31/10						
C5-C8 Aliphatics	BRL	5.0	mg/kg wet							
C9-C12 Aliphatics	BRL	5.0	mg/kg wet							
C9-C10 Aromatics	BRL	5.0	mg/kg wet							
Surrogate: 2,5-Dibromotoluene (PID)	*5.86*		*mg/kg wet*	*8.33*		*70*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*7.39*		*mg/kg wet*	*8.33*		*89*	*70-130*			
LCS (P0L0585-BS1)				Prepared & Analyzed: 12/30/10						
C5-C8 Aliphatics	32.1	5.0	mg/kg wet	32.0		100	70-130			
C9-C10 Aromatics	8.86	5.0	mg/kg wet	10.7		83	70-130			
C9-C12 Aliphatic	34.5	5.0	mg/kg wet	32.0		108	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*6.90*		*mg/kg wet*	*8.33*		*83*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*7.86*		*mg/kg wet*	*8.33*		*94*	*70-130*			
LCS Dup (P0L0585-BSD1)				Prepared: 12/30/10 Analyzed: 12/31/10						
C5-C8 Aliphatics	27.9	5.0	mg/kg wet	32.0		87	70-130	14	200	
C9-C10 Aromatics	8.70	5.0	mg/kg wet	10.7		82	70-130	2	200	
C9-C12 Aliphatic	25.8	5.0	mg/kg wet	32.0		81	70-130	29	200	
Surrogate: 2,5-Dibromotoluene (PID)	*7.48*		*mg/kg wet*	*8.33*		*90*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*9.25*		*mg/kg wet*	*8.33*		*111*	*70-130*			

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P; Project No: U-2211-B Parcel 9
Asheville, NC 28806

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0499 - 5035										
Blank (P0L0499-BLK1)				Prepared & Analyzed: 12/27/10						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*5.40*		*mg/kg wet*	*5.00*		*108*	*55-129*			
LCS (P0L0499-BS1)				Prepared & Analyzed: 12/27/10						
Gasoline Range Organics	44.4	5.0	mg/kg wet	50.0		89	67-116			
Surrogate: a,a,a-Trifluorotoluene	*5.45*		*mg/kg wet*	*5.00*		*109*	*55-129*			
LCS Dup (P0L0499-BSD1)				Prepared & Analyzed: 12/27/10						
Gasoline Range Organics	45.6	5.0	mg/kg wet	50.0		91	67-116	3	200	
Surrogate: a,a,a-Trifluorotoluene	*5.40*		*mg/kg wet*	*5.00*		*108*	*55-129*			
Matrix Spike (P0L0499-MS1)	**Source: 0120630-08**			Prepared & Analyzed: 12/27/10						
Gasoline Range Organics	69.4	6.2	mg/kg dry	61.6	BRL	113	57-113			
Surrogate: a,a,a-Trifluorotoluene	*8.31*		*mg/kg dry*	*6.16*		*135*	*55-129*			*SR*
Matrix Spike Dup (P0L0499-MSD1)	**Source: 0120630-08**			Prepared & Analyzed: 12/27/10						
Gasoline Range Organics	70.3	6.2	mg/kg dry	61.6	BRL	114	57-113	1	23	M
Surrogate: a,a,a-Trifluorotoluene	*8.44*		*mg/kg dry*	*6.16*		*137*	*55-129*			*SR*
Batch P0L0530 - 5035										
Blank (P0L0530-BLK1)				Prepared & Analyzed: 12/28/10						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*5.45*		*mg/kg wet*	*5.00*		*109*	*55-129*			
LCS (P0L0530-BS1)				Prepared & Analyzed: 12/28/10						
Gasoline Range Organics	45.2	5.0	mg/kg wet	50.0		90	67-116			
Surrogate: a,a,a-Trifluorotoluene	*5.50*		*mg/kg wet*	*5.00*		*110*	*55-129*			

Mactec - Asheville (NCDOT Project)
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P
Asheville, NC 28806

Project: NCDOT Lenoir
Project No: U-2211-B Parcel 9

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0530 - 5035										
LCS Dup (P0L0530-BSD1)				Prepared & Analyzed: 12/28/10						
Gasoline Range Organics	45.8	5.0	mg/kg wet	50.0		92	67-116	1	200	
Surrogate: a,a,a-Trifluorotoluene	*5.50*		*mg/kg wet*	*5.00*		*110*	*55-129*			

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
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Asheville, NC 28806

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0551 - MADEP EPH (S)										
Blank (P0L0551-BLK1)				Prepared: 12/28/10 Analyzed: 01/03/11						
C9-C18 Aliphatics	BRL	9.8	mg/kg wet							
C19-C36 Aliphatics	BRL	9.8	mg/kg wet							
C11-C22 Aromatics	BRL	9.8	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.28*		*mg/kg wet*	*1.96*		*65*	*40-140*			
Surrogate: o-Terphenyl	*1.59*		*mg/kg wet*	*1.96*		*81*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.45*		*mg/kg wet*	*3.93*		*88*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.44*		*mg/kg wet*	*3.93*		*88*	*40-140*			
LCS (P0L0551-BS1)				Prepared: 12/28/10 Analyzed: 01/03/11						
C9-C18 Aliphatics	34.3	9.9	mg/kg wet	59.5		58	40-140			
C19-C36 Aliphatics	57.4	9.9	mg/kg wet	79.4		72	40-140			
C11-C22 Aromatics	122	9.9	mg/kg wet	169		72	40-140			
Surrogate: 1-Chlorooctadecane	*1.47*		*mg/kg wet*	*1.98*		*74*	*40-140*			
Surrogate: o-Terphenyl	*1.81*		*mg/kg wet*	*1.98*		*91*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.35*		*mg/kg wet*	*3.97*		*84*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.42*		*mg/kg wet*	*3.97*		*86*	*40-140*			
LCS Dup (P0L0551-BSD1)				Prepared: 12/28/10 Analyzed: 01/03/11						
C9-C18 Aliphatics	38.8	9.8	mg/kg wet	59.0		66	40-140	12	50	
C19-C36 Aliphatics	57.3	9.8	mg/kg wet	78.7		73	40-140	0.2	50	
C11-C22 Aromatics	112	9.8	mg/kg wet	167		67	40-140	9	50	
Surrogate: 1-Chlorooctadecane	*1.51*		*mg/kg wet*	*1.97*		*77*	*40-140*			
Surrogate: o-Terphenyl	*1.66*		*mg/kg wet*	*1.97*		*85*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.29*		*mg/kg wet*	*3.93*		*84*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.34*		*mg/kg wet*	*3.93*		*85*	*40-140*			
Matrix Spike (P0L0551-MS1)	**Source: 0120630-08**			Prepared: 12/29/10 Analyzed: 01/04/11						
C9-C18 Aliphatics	44.4	12	mg/kg dry	71.1	BRL	62	40-140			
C19-C36 Aliphatics	73.4	12	mg/kg dry	94.8	BRL	77	40-140			
C11-C22 Aromatics	145	12	mg/kg dry	202	BRL	72	40-140			
Surrogate: 1-Chlorooctadecane	*1.75*		*mg/kg dry*	*2.37*		*74*	*40-140*			
Surrogate: o-Terphenyl	*2.03*		*mg/kg dry*	*2.37*		*85*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*4.47*		*mg/kg dry*	*4.74*		*94*	*40-140*			
Surrogate: 2-Bromonaphthalene	*4.52*		*mg/kg dry*	*4.74*		*95*	*40-140*			

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P; Project No: U-2211-B Parcel 9
Asheville, NC 28806

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0551 - MADEP EPH (S)										
Matrix Spike Dup (P0L0551-MSD1)	**Source: 0120630-08**		Prepared: 12/29/10 Analyzed: 01/04/11							
C9-C18 Aliphatics	48.8	12	mg/kg dry	71.6	BRL	68	40-140	10	50	
C19-C36 Aliphatics	74.3	12	mg/kg dry	95.5	BRL	78	40-140	1	50	
C11-C22 Aromatics	146	12	mg/kg dry	203	BRL	72	40-140	0.7	50	
Surrogate: 1-Chlorooctadecane	*1.76*		*mg/kg dry*	*2.39*		*74*	*40-140*			
Surrogate: o-Terphenyl	*2.12*		*mg/kg dry*	*2.39*		*89*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*4.34*		*mg/kg dry*	*4.77*		*91*	*40-140*			
Surrogate: 2-Bromonaphthalene	*4.45*		*mg/kg dry*	*4.77*		*93*	*40-140*			

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P; Project No: U-2211-B Parcel 9
Asheville, NC 28806

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0537 - 3545A										
Blank (P0L0537-BLK1)				Prepared: 12/27/10 Analyzed: 12/29/10						
Diesel Range Organics	BRL	6.9	mg/kg wet							
Surrogate: o-Terphenyl	*1.29*		*mg/kg wet*	*1.58*		*82*	*49-124*			
LCS (P0L0537-BS1)				Prepared: 12/27/10 Analyzed: 12/29/10						
Diesel Range Organics	65.8	6.9	mg/kg wet	78.9		83	55-109			
Surrogate: o-Terphenyl	*1.96*		*mg/kg wet*	*1.58*		*124*	*49-124*			
LCS Dup (P0L0537-BSD1)				Prepared: 12/27/10 Analyzed: 12/29/10						
Diesel Range Organics	59.0	6.9	mg/kg wet	78.8		75	55-109	11	200	
Surrogate: o-Terphenyl	*1.91*		*mg/kg wet*	*1.58*		*121*	*49-124*			
Matrix Spike (P0L0537-MS1)	**Source: 0120630-01**			Prepared: 12/27/10 Analyzed: 12/29/10						
Diesel Range Organics	551	8.8	mg/kg dry	100	385	165	50-117			MI
Surrogate: o-Terphenyl	*6.38*		*mg/kg dry*	*2.01*		*318*	*49-124*			*SR*
Matrix Spike Dup (P0L0537-MSD1)	**Source: 0120630-01**			Prepared: 12/27/10 Analyzed: 12/29/10						
Diesel Range Organics	686	8.7	mg/kg dry	99.7	385	302	50-117	22	24	MI
Surrogate: o-Terphenyl	*7.47*		*mg/kg dry*	*1.99*		*375*	*49-124*			*SR*

Mactec - Asheville (NCDOT Project) Project: NCDOT Lenoir
Attn: Kirk Weir
c/o MACTEC Eng. & Consulting, Inc, 1308 P; Project No: U-2211-B Parcel 9
Asheville, NC 28806

Prism Work Order: 0120630
Time Submitted: 12/22/2010 4:00:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0511 - NO PREP										
Blank (P0L0511-BLK1)				Prepared & Analyzed: 12/27/10						
% Solids	100	0.100	% by Weight							
Duplicate (P0L0511-DUP3)		**Source: 0120630-07**		Prepared & Analyzed: 12/27/10						
% Solids	78.1	0.100	% by Weight		76.9			2	20	

Sample Extraction Data

Prep Method: 3545A

Lab Number	Batch	Initial	Final	Date
0120630-01	P0L0537	25.04 g	1 mL	12/27/10
0120630-02	P0L0537	24.97 g	1 mL	12/27/10
0120630-03	P0L0537	25 g	1 mL	12/27/10
0120630-04	P0L0537	25.27 g	1 mL	12/27/10
0120630-05	P0L0537	25.11 g	1 mL	12/27/10
0120630-06	P0L0537	25.24 g	1 mL	12/27/10
0120630-07	P0L0537	24.98 g	1 mL	12/27/10
0120630-08	P0L0537	25.06 g	1 mL	12/27/10

Prep Method: MADEP EPH (S)

Lab Number	Batch	Initial	Final	Date
0120630-04	P0L0551	10.18 g	2 mL	12/29/10
0120630-04	P0L0551	10.18 g	2 mL	12/29/10
0120630-07	P0L0551	10.23 g	2 mL	12/29/10
0120630-07	P0L0551	10.23 g	2 mL	12/29/10
0120630-08	P0L0551	10.16 g	2 mL	12/29/10
0120630-08	P0L0551	10.16 g	2 mL	12/29/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0120630-01	P0L0530	4.8 g	5 mL	12/28/10
0120630-02	P0L0530	6.17 g	5 mL	12/28/10
0120630-03	P0L0530	6.39 g	5 mL	12/28/10
0120630-04	P0L0499	5.57 g	5 mL	12/27/10
0120630-05	P0L0499	5.61 g	5 mL	12/27/10
0120630-06	P0L0499	5.75 g	5 mL	12/27/10
0120630-07	P0L0499	5.05 g	5 mL	12/27/10
0120630-08	P0L0499	5.05 g	5 mL	12/27/10

NO PREP

Lab Number	Batch	Initial	Final	Date
0120630-01	P0L0511	30 g	30 mL	12/27/10
0120630-02	P0L0511	30 g	30 mL	12/27/10
0120630-03	P0L0511	30 g	30 mL	12/27/10
0120630-04	P0L0511	30 g	30 mL	12/27/10
0120630-05	P0L0511	30 g	30 mL	12/27/10
0120630-06	P0L0511	30 g	30 mL	12/27/10
0120630-07	P0L0511	30 g	30 mL	12/27/10
0120630-08	P0L0511	30 g	30 mL	12/27/10

Prep Method: 3550C MS

Lab Number	Batch	Initial	Final	Date
0120630-04	P0L0594	30.21 g	1 mL	12/30/10
0120630-07	P0L0594	30.21 g	1 mL	12/30/10
0120630-08	P0L0594	30.23 g	1 mL	12/30/10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date
0120630-04	P0L0575	6.24 g	5 mL	12/29/10
0120630-07	P0L0575	5.34 g	5 mL	12/29/10
0120630-08	P0L0575	5.02 g	5 mL	12/29/10

Sample Extraction Data

Prep Method: MADEP VPH (S)

Lab Number	Batch	Initial	Final	Date
0120630-04	P0L0585	17.81 g	16 mL	12/30/10
0120630-07	P0L0585	19.06 g	16 mL	12/30/10
0120630-08	P0L0585	24 g	16 mL	12/30/10

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

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

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

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: U-2211-B

Client Company Name: MACTEC
Report To/Contact Name: Kirk Weir
Reporting Address: 1308 Patton Ave Asheville NC, 28806
Phone: 828 252-8130 Fax (Yes) (No):
Email (Yes) (No) Email Address wkweir@mactec.com
EDD Type: PDF ✓ Excel ___ Other ___
Site Location Name: NCDOT- Lenoir
Site Location Physical Address: 201 Hibriten Drive Lenoir, NC

Project Name: NCDOT Project U-2211 (crossed out)
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: NCDOT WBS # 34783.1.1
Address:

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

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 4.0	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ USACE ___ FL ___ NC ✓
SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ✓
Sample Iced Upon Collection: YES ✓ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	*TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	TPH GRO	TPH DRO	8260	8270	MADEP EPH	MADEP VPH	REMARKS	PRISM LAB ID NO.
SS-01	12/20/10	1545	Soil	various	4	various	(2) methanol (2) Ice only	✓	✓					See below	
SS-02	12/20/10	1555	Soil	various	4	various	(2) methanol (2) Ice only	✓	✓					↓	
SS-03	12/20/10	1620	Soil	various	12	various	(2) NaSO4 (5) CH3OH (5) Ice only	✓	✓	✓	✓	✓	✓	↓	
SS-04	12/20/10	1640	Soil	various	12	various	(2) NaSO4 (5) CH3OH (5) Ice only	✓	✓	✓	✓	✓	✓	↓	
SS-05	12/20/10	1650	Soil	various	12	various	(2) NaSO4 (5) CH3OH (5) Ice only	✓	✓	✓	✓	✓	✓	↓	
SS-06	12/20/10	1710	Soil	various	12	various	(2) NaSO4 (5) CH3OH (5) Ice only	✓	✓	✓	✓	✓	✓	↓	
SS-07	12/20/10	1720	Soil	various	12	various	(2) NaSO4 (5) CH3OH (5) Ice only	✓	✓	✓	✓	✓	✓	↓	
SS-08	12/20/10	1735	Soil	various	12	various	(2) NaSO4 (5) CH3OH (5) Ice only	✓	✓	✓	✓	✓	✓	↓	

Sampler's Signature [signature] Sampled By (Print Name) Wm. Kirk Weir Affiliation MACTEC

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	12/21/10 (12/20/10 crossed out)	1830
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	12/22/10	1600

COC Group No. 0120630

Additional Comments: GRO/DRO require RUSH analysis. If GRO or DRO ≥10 ppm run additional "risk-based" analyses for that sample.

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

☑ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES: ☐ NC ☐ SC ☐ | UST: ☑ NC ☐ SC ☐ | 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 TE...

ORIGINAL

APPENDIX E

UST Closure Forms (UST-2 and UST-61)

UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

Return completed form to:
The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out.
SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY:
I.D. #_____
Date Received_____

INSTRUCTIONS (READ THIS FIRST)

For more than five UST systems you may attach additional forms as needed.

Permanent closure – For permanent closure, complete all sections of this form.

Change-in-service – For change-in-service where UST systems will be converted from containing a regulated substance to storing a non-regulated substance, complete sections I, II, III, IV, and VIII

Effective February 1, 1995, all UST closure/change-in-service reports must be submitted in the format provided in the UST-12 form. UST closure and change-in-services must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. A copy of the UST-12 form and the *Guidelines for Tank Closure* can be obtained at www.wastenotnc.org.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

I. OWNERSHIP OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity) Marie Antha Thomas (formerly)	
Street Address 102 Hibriten Drive SW	
City Lenoir	County Caldwell
State NC	Zip Code 28645
Phone Number Unkown	

II. LOCATION OF TANKS

Facility Name or Company Former Marie Antha Thomas Property (Parcel #20; NCDOT U-2211		
Facility ID # (If known)		
Street Address 102 Hibriten Drive SW		
City Lenoir	County Caldwell	Zip Code 28645
Phone Number N/A		

III. CONTACT PERSONNEL

Contact for Facility: Ethan Caldwell		Job Title: NCDOT GeoEnvironmental Project Mgr.	Phone. No: 919-250-4088
Closure Contractor Name: Gene Cline	Closure Contractor Company: Zebra Environmental & Industri	Address: PO Box 357, High Point, NC 27261	Phone. No: 336-841-5276
Primary Consultant Name: Matthew E. Wallace	Primary Consultant Company: MACTEC Engineering & Consultin	Address: 1308 Patton Avenue, Asheville, NC	Phone. No: 828-252-8130

IV. UST INFORMATION FOR REGISTERED UST SYSTEMS

V. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Change-in-Service Date	Water in excavation Yes	Water in excavation No	Free product Yes	Free product No	Notable odor or visible soil contamination Yes	Notable odor or visible soil contamination No
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐

VI. UST INFORMATION FOR UNREGISTERED UST SYSTEMS

VII. EXCAVATION CONDITION

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Tank Owner Name *	Water in excavation Yes	Water in excavation No	Free product Yes	Free product No	Notable odor or visible soil contamination Yes	Notable odor or visible soil contamination No
1	550	3.5 x 7.5	Heating Oil	unknow	12/20/10	see section I	☐	☒	☐	☒	☒	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐
							☒	☐	☐	☐	☐	☐

* If the tank owner address is different from the one listed in Section I., then enter the street address, city, state, zip code and telephone no. below:

VIII. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete.

Print name and official title of owner or owner's authorized representative	Signature	Date Signed
Matthew E. Wallace, as owner's agent on behalf of NCDOT		

UST-61 — 24-Hour Release and UST Leak Reporting Form.

For Releases in NC

This form should be completed and submitted to the UST Section's regional office following a known or suspected release from an underground storage tank (UST) system. This form is required to be submitted within 24 hours of discovery of a known or suspected release

(DWM USE ONLY)
Incident # _____ Risk (H,I,L,U)_____
Received On _____ Received By _____
Reported by (*circle one*): Phone, Fax or Report
Region _____

Suspected Contamination? (Y/N) Y
Confirmed GW Contamination? (Y/N) N
Confirmed Soil Contamination ?(Y/N) Y
Samples Taken?(Y/N) Y
Free Product? (Y/N) N If Yes, State Greatest Thickness _____

Facility ID Number _____
Date Leak Discovered 12/20/10
Comm/Non-Commercial? Non-Com
Reg/Non-regulated? Non-Reg

INCIDENT DESCRIPTION

Incident Name: Former Marie Antha Property

Address: 102 Hibriten Drive SW | County: Caldwell

City/Town: Lenoir, NC | Zip Code: 28645 | Regional Office (*circle one*): Asheville, Mooresville, Fayetteville, Raleigh, Washington, Wilmington, Winston-Salem

Latitude (decimal degrees): 35.890954 Longitude (decimal degrees) : - 81.520491

Obtained by:
- ☐ GPS
- ☐ Topographic map
- ☑ GIS Address matching
- ☐ Other
- ☐ Unknown

Describe location:

Briefly describe suspected or confirmed release: *(including but not limited to: nature of release, date of release, amount of release, amount of free product present and recovery efforts, initial responses conducted, impacts to receptors)*

Suspected contamination observed upon removal of former Heating oil tank (odor & stained soil). Visual observations of the removed UST indicated severe corrosion.

HOW RELEASE WAS DISCOVERED (Release Code)

(Check one)

- ☐ Release Detection Equipment or Methods
- ☑ During UST Closure/Removal
- ☐ Property Transfer
- ☑ Visual/Odor
- ☐ Water in Tank
- ☐ Water Supply Well Contamination
- ☐ Groundwater Contamination
- ☐ Surface Water Contamination
- ☐ Other (specify) _____

SOURCE OF CONTAMINATION

Source of Release *(Check one to indicate primary source)*
- ☑ Tank
- ☐ Piping
- ☐ Dispenser
- ☐ Submersible Turbine Pump
- ☐ Delivery Problem
- ☐ Other
- ☐ Unknown

Definitions presented on reverse

Cause of Release *(Check one to indicate primary cause)*
- ☐ Spill
- ☐ Overfill
- ☑ Corrosion
- ☐ Physical or Mechanical Damage
- ☐ Install Problem
- ☐ Other
- ☐ Unknown

Definitions presented on reverse

Type of Release *(Check one)*
- ☑ Petroleum
- ☐ Non-Petroleum
- ☐ Both

Location *(Check one)*
- ☐ Facility
- ☑ Residence
- ☐ Other

Product Type Released *(Check one to indicate primary product type released)*
- ☐ Gasoline/ Diesel/ Kerosene
- ☑ Heating Oil
- ☐ Other Petroleum Products
- ☐ Metals
- ☐ Other Inorganics
- ☐ Other Organics
- ☐ Diesel/Veg. Oil Blend
- ☐ Vegetable Oil 100%
- ☐ E10 – E20
- ☐ E21 – E84
- ☐ E85 – E99
- ☐ Ethanol 100%
- ☐ E01 – E09

Ownership
1. Municipal 2. Military 3. Unknown 4. Private 5. Federal 6. County 7. State

Operation Type
1. Public Service 2. Agricultural 3. Residential 4. Education/Relig. 5. Industrial 6. Commercial 7. Mining

Notified J. Anderson via telephone on 12/21/10

IMPACT ON DRINKING WATER SUPPLIES

Water Supply Wells Affected? 1. Yes 2. No (3. Unknown)

Number of Water Supply Wells Affected _____

Water Supply Wells Contaminated: (*Include Users Names, Addresses and Phone Numbers. Attach additional sheet if necessary*)

1.
2.
3.

UST SYSTEM OWNER

UST Owner/Company			
(formerly) Marie Anther Property			
Point of Contact		Address	
unkown		102 Hibriten Dr. SW	
City	State	Zip Code	Telephone Number
Lenoir	NC	28645	unkown

UST SYSTEM OPERATOR

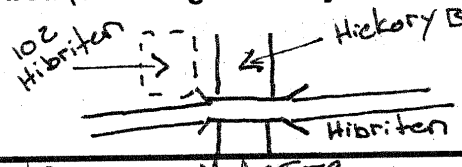
UST Operator/Company		Address	
City	State	Zip Code	Telephone Number

LANDOWNER AT LOCATION OF UST INCIDENT

Attn: Albert Steib NCDOT ROW Agent

Landowner		Address	
North Carolina Dept. of Transportation		1589 Mail Service Center	
City	State	Zip Code	Telephone Number
Raleigh	NC	27699	919.250.4088

Draw Sketch of Area (showing two major road intersections) or Attach Map



* See attached

Person Reporting Incident	K. Weir	Company	MACTEC	Telephone Number	828 2528130
Title	Staff Geologist	Address	1308 Patton Ave, Asheville NC 28806	Date	12/30/2010

UST Form 61 (02/08)

Definitions of Sources

Tank: means the tank that stores the product and is part of the underground storage tank system

Piping: means the piping and connectors running from the tank or submersible turbine pump to the dispenser or other end-use equipment (Vent, vapor recovery, or fill lines are excluded.)

Dispenser: includes the dispenser and the equipment used to connect the dispenser to the piping (e.g., a release from a suction pump or from components located above the shear valve)

Submersible Turbine Pump (STP) Area includes the submersible turbine pump head (typically located in the tank sump), the line leak detector, and the piping that connects the submersible turbine pump to the tank

Delivery Problem: identifies releases that occurred during product delivery to the tank. (Typical causes associated with this source are spills and overfills.)

Other: serves as the option to use when the release source is known but does not fit into one of the preceding categories (e.g., for releases from vent lines, vapor recovery lines, and fill lines)

Unknown: identifies releases for which the source has not been determined

Definitions of Causes

Spill: use this cause when a spill occurs (e.g., when the delivery hose is disconnected from the tank fill pipe or when the nozzle is removed from the dispenser)

Overfill: use when an overfill occurs (e.g., overfills may occur from the fill pipe at the tank or when the nozzle fails to shut off at the dispenser)

Physical or Mechanical Damage: use for all types of physical or mechanical damage, except corrosion (e.g., puncture of tank or piping, loose fittings, broken components, and components that have changed dimension)

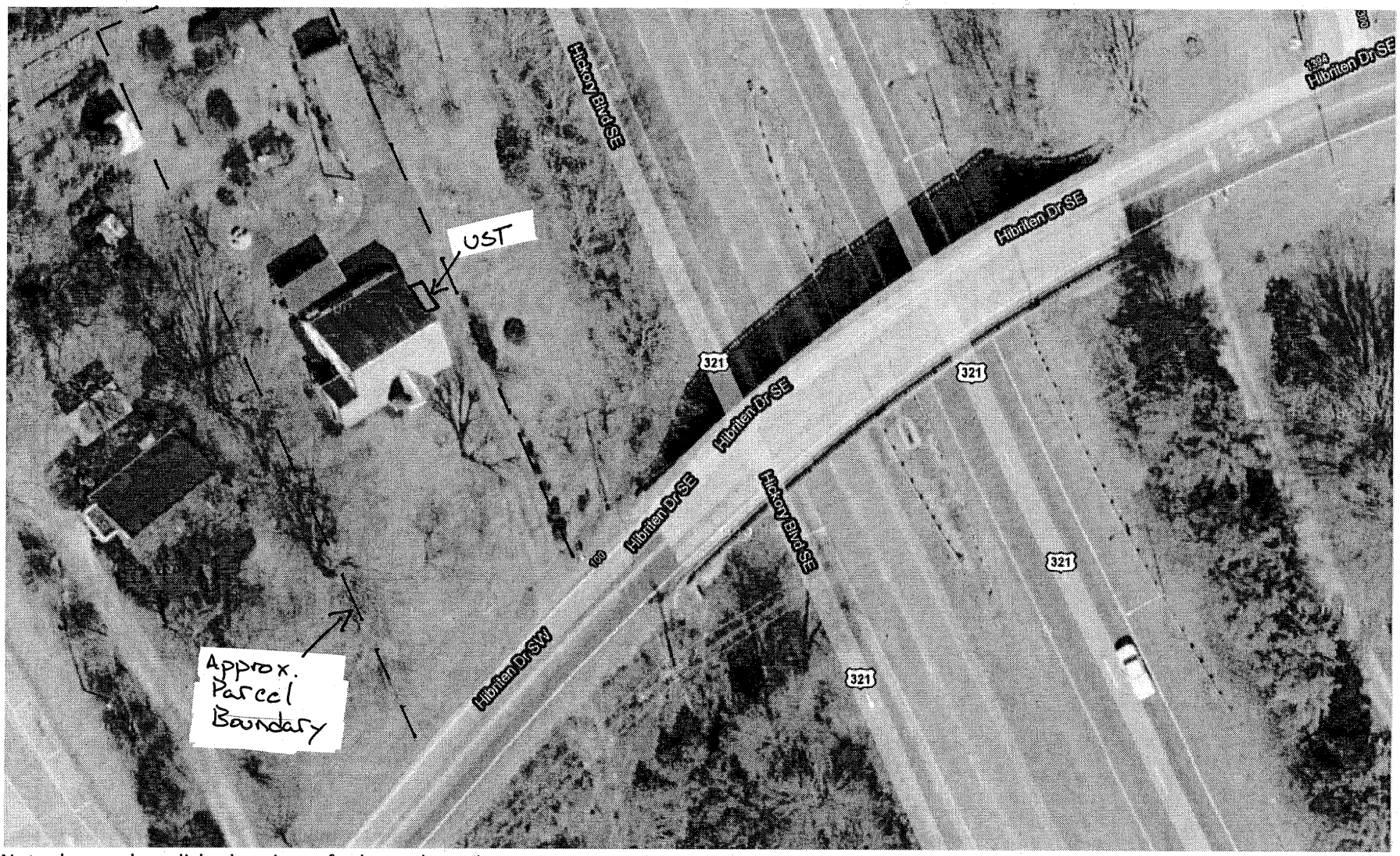
Corrosion: use when a metal tank, piping, or other component has a release due to corrosion (e.g., for steel, corrosion takes the form of rust)

Installation Problem: use when the problem is determined to have occurred specifically because the UST system was not installed properly

Other: use this option when the cause is known but does not fit into one of the preceding categories (e.g., putting regulated substances into monitoring wells)

Unknown: use when the cause has not been determined

Map of 102 Hibriten Drive SW Lenoir, NC and approximate UST location



Note: house demolished at time of release detection