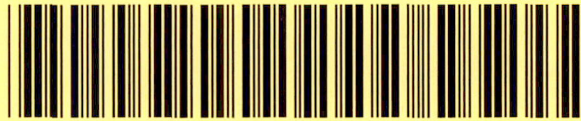


\*587IHSSF3072\*



DocumentID NONCD0002174

Site Name NCDOT ASPHALT SITE #67

DocumentType Correspondence (C)

RptSegment

DocDate 4/23/2009

DocRcvd 4/27/2009

Box SF3072

AccessLevel PUBLIC

Division WASTE MANAGEMENT

Section SUPERFUND

Program IHS (IHS)

DocCat FACILITY



## North Carolina Department of Environment and Natural Resources

Dexter Matthews, Director

Division of Waste Management

Beverly Eaves Perdue, Governor  
Dee Freeman, Secretary

23 April 2009

Mr. Chris Niver  
Environmental Operations Engineer  
Environmental Operations & Rest Area  
NC Department of Transportation  
1566 Mail Service Center  
Raleigh, NC 27699

**RECEIVED**

**APR 27 2009**

**NCDENR MRO IHSB**

RE: Former Asphalt Testing Sites

As you know, the Department of Environment and Natural Resources reorganized and consolidated its staff overseeing remediation of non-permitted spill sites into the Division of Waste Management (DWM). The oversight of non-petroleum contaminant releases at former asphalt testing sites now lies within the DWM's Inactive Hazardous Sites Branch (Branch). Since the reorganization, the Branch has been receiving monitoring reports, CSAs and other documents from the Department of Transportation (DOT) on several former asphalt testing sites. This letter is to provide you with some direction and determine your interest on the continued oversight of these cases.

We understand there were originally 74 former asphalt testing locations identified. We have found 63 cataloged in the Division of Water Quality's (DWQ) incident database. Ten of the non-cataloged sites were included on a list of those with "No Significant Findings." The eleventh non-cataloged site was determined not to be associated with asphalt testing operations. The incidents flagged as open have been incorporated into the Inactive Hazardous Sites database.

With the reorganization, staff that had been working on remediation of contaminated sites with the DWQ, transferred from the DWQ to the DWM. However, both agencies have always had a limited number of staff to provide oversight and approval of assessments and remediation of contamination. To address this need, the legislature earlier established a mechanism in the Inactive Hazardous Sites Response Act to privatize approval of certain voluntary remedial actions. Since the Branch is compelled by statute to address the most serious sites first, staff resources are dedicated to addressing those sites posing the highest threats to public health and the environment. However, the Branch's privatized oversight program, known as the Registered Environmental Consultant (REC) Program, provides an almost unlimited resource for addressing lower priority sites having parties volunteering to assess and remediate those sites.

The REC Program works this way. The Branch approves firms meeting certain qualifications as Registered Environmental Consultants or RECs. The volunteering party hires an REC to both conduct, and to certify the regulatory compliance of, a site's assessment and cleanup. The REC certification replaces state oversight. The state audits a portion of the REC projects to ensure integrity of the program. The state sanctions RECs where necessary. A state staff auditor is funded through fees collected from the voluntary participants. Details of this program can be found at <http://www.wastenotnc.org/sfhome/recprog.htm>.

1646 Mail Service Center, Raleigh, North Carolina 27699-1646  
Phone: 919-508-8400 \ FAX: 919-715-4061 \ Internet: [www.wastenotnc.org](http://www.wastenotnc.org)

Due to our limited staff resources being dedicated to overseeing work at sites with more serious health threats, the DOT will need to work through the REC Program to receive continued approval of its actions at the asphalt testing sites, unless a site is determined to be a priority case requiring staff oversight. The Branch otherwise does not have the resources to review documents submitted for non-priority sites and therefore these documents would not be approved. An exception are those sites in Guilford County. Sites in Guilford County under agreements with the Branch will undergo direct oversight by our partners in the Guilford County Department of Public Health rather than by the REC Program.

In receiving continued approval through the REC Program, the DOT will not have to repeat any work. However, all potentially contaminated media must have been sampled. All areas known or suspected to have a release of contaminants related to asphalt testing activities or other DOT activities must be sampled. Each site must be tested for all contaminants related to the types of release and for their degradation products. Note that if any of the sites identified by the DOT as having "No Significant Findings" have media, areas, or contaminants that were not tested/cleaned up, those sites will require further work. If the DOT used the DWQ's soil to groundwater published cleanup targets for soil, these numbers are sufficiently low for most contaminants that they easily meet both cleanup criteria for soils: protection of groundwater numbers for soil and levels acceptable for unrestricted use by direct contact (or restricted use with land use restrictions). Therefore, if source area soils were adequately tested for the contaminants of concern and found to meet the published DWQ targets, no further work is likely necessary for soils. One of the primary reasons for reorganization and consolidation of the remediation programs is so a party need only work with one agency to address all contaminated media.

In reviewing your work to confirm no additional work is needed, you will need to look at the performance of your remedy. Many of the asphalt testing sites had L CAPs. Since many of these were approved years ago, you will need to look at the data and confirm that contaminants are in fact attenuating. If they are not, you should review the work to ensure that the source material was adequately treated/removed/controlled as required by 15A NCAC 2L or consider another remedy. Regardless of the type of CAP, you should continually evaluate performance of the remedy. Note that it might be appropriate in some cases to reduce frequency of monitoring of Natural Attenuation corrective actions to less often than a quarterly basis.

An alternative to the REC Program if the DOT would like direct state approval of its work is for the DOT to provide funding to support one or more positions in the Branch. The DWM has other similar funding programs where the volunteer provides oversight funds to secure state review.


For any former asphalt testing sites for which you are willing to continue to volunteer to conduct assessment or abatement, a Site Cleanup Questionnaire, available on our website at <http://www.wastenotnc.org/sfjome/ihsbrnch.htm> must be completed and returned to the contacts identified below. A map indicating our regional office locations is available at this web site as well. The information you provide will be reviewed along with other information to determine a site's priority, so please make certain that the information you provide is complete and accurate. Please note that your failure to inform the Branch of any nearby potable wells or other high risk conditions may adversely affect the Branch's ability to identify this site as a higher-risk site.

For sites in the Eastern Region:  
John Walch  
Eastern Regional Supervisor  
Inactive Hazardous Sites Branch  
Division of Waste Management  
401 Oberlin Road  
Raleigh, NC 27605

For sites in the Western Region:  
Bruce Parris  
Western Regional Supervisor  
Inactive Hazardous Sites Branch  
Division of Waste Management  
610 E Center Avenue; Ste 301  
 Mooresville, NC 28115

Please consider this letter a response to the documents submitted to the Branch. You may however, receive additional correspondence on special case questions. If you have any questions or are interested in pursuing the option to fund staff oversight, I can be reached at (919) 508-8460.

Sincerely,



Charlotte Jesneck, Head  
Inactive Hazardous Sites Branch  
Superfund Section

One  
North Carolina  
*Naturally*



COPY

North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

November 24, 2008

ABM Landscape Service  
11301 Reames Road  
Charlotte, North Carolina 28269

Re: **Well Sampling Results (WSW No. 5)**  
ABM Landscape Service  
11301 Reames Road  
Charlotte, Mecklenburg County, North Carolina

Dear Sir or Madam:

On May 21, 2008, Hart & Hickman collected a groundwater sample from an irrigation well (WSW No. 5) located at the above referenced facility. The sample was collected and submitted for analyses as part of groundwater monitoring of NCDOT Asphalt Site No. 67 (IHSB # NONCD0002174). Analytical results from the May 21, 2008 and prior sampling events reported by Hart & Hickman are summarized in the following table for your review.

| Water Supply Well ID | Sampling Date | Compound        | Concentration ( $\mu\text{g/L}$ ) |
|----------------------|---------------|-----------------|-----------------------------------|
| WSW No. 5            | 11/2/2004     | Trichloroethene | 0.78                              |
| WSW No. 5            | 11/13/2007    | Trichloroethene | 0.60                              |
| WSW No. 5            | 5/21/2008     | Trichloroethene | 1.3                               |

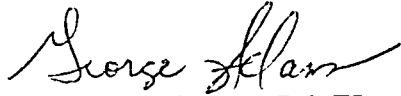
$\mu\text{g/L}$  = micrograms per liter (~parts per billion)

Trichloroethene was reported in three subsequent sampling events of the irrigation well located at your facility. The concentrations of trichloroethene in the groundwater are below North Carolina Groundwater Standard (2L) and the Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) for drinking water.

The data summarized above was used to conduct a Health Risk Evaluation (HRE) by Hanna Assefa of the Division of Waste Management. Enclosed is a copy for your review.

I appreciate your attention to this matter. If you have questions or need additional information, please contact please contact Hanna Assefa at (919) 508-8445 or the Inactive Hazardous Sites Branch at (704) 663-1699.

Sincerely,



George D. Adams, PG & EI  
Environmental Engineer II  
Department of Environment and Natural Resources  
Division of Waste Management  
Superfund Section - Inactive Hazardous Sites Branch

Enclosure

cc: The Rowboat Company, Inc.  
858 Williamson Road  
Mooresville, North Carolina 28117

Mecklenburg County Health Department

**MEMORANDUM**

DATE: November 22, 2008

TO: George Adams, Environmental Engineer  
Superfund Section, IHSB-Mooresville Regional Office

FROM: Hanna Assefa, Environmental Toxicologist *HA*  
Superfund Section, Inactive Hazardous Sites Branch

RE: **Health Risk Evaluation**  
ABM Landscape Service (WSW No. 5)  
11301 Reames Road  
Charlotte, North Carolina 28269

A water sample was collected on November 2, 2004, November 13, 2007 and May 21, 2008 from the irrigation well at the subject address. During this sampling event, trichloroethene was detected in the well water. The concentration of trichloroethene detected did not exceed its applicable standard in all three sampling events. The standards used to determine if the water is suitable for drinking and cooking and all residential purposes are the federal drinking water standards (USEPA MCL), or where there is no MCL, the North Carolina Groundwater Quality Standard (NC 2L).

**Based on this evaluation, the water from this well can be used for all residential purposes including irrigation.** The table below compares detected contaminant concentrations with the applicable standards.

| Water Supply Well ID | Sampling Date | Compound        | Concentration (µg/L) | USEPA MCL (ug/L) |
|----------------------|---------------|-----------------|----------------------|------------------|
| WSW No. 5            | 11/2/2004     | Trichloroethene | 0.78                 | 5                |
| WSW No. 5            | 11/13/2007    | Trichloroethene | 0.60                 | 5                |
| WSW No. 5            | 5/21/2008     | Trichloroethene | 1.3                  | 5                |

**Subject:** HRE ABM Landscape Service  
**From:** George Adams <george.adams@ncmail.net>  
**Date:** Mon, 10 Nov 2008 11:21:30 -0500  
**To:** HANNA ASSEFA <HANNA.ASSEFA@ncmail.net>

Hanna,

Enclosed is an electronic copy of an HRE request. Please contact me if you have questions, or need additional information.

--

George Adams - [George.Adams@ncmail.net](mailto:George.Adams@ncmail.net)  
North Carolina Dept. of Environment & Natural Resources  
Div. of Waste Mgt. - Superfund Section - Inactive Hazardous Sites  
610 E. Center Ave., Suite 301  
Mooresville, NC 28115  
Ph: (704) 663-1699 Fax: (704) 663-6040

|   |   |
|---|---|
| <b>NCDOT # 67 NONCD0002174 # 85169 HRE for WSW No. 11.10.08.pdf</b> | <b>Content-Type:</b> application/pdf<br><b>Content-Encoding:</b> base64 |
|---|---|

|   |  |
|---|--|
| <b>NCDOT # 67 NONCD0002174 # 85169 HRE request 11.10.08.doc</b> | <b>Content-Type:</b> application/msword<br><b>Content-Encoding:</b> base64 |
|---|--|





North Carolina Department of Environment and Natural Resources


Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

**MEMORANDUM**

**TO:** Hanna Assefa, Industrial Hygienist  
Superfund Section, Inactive Hazardous Sites Branch (IHSB)

**FROM:** George Adams, Environmental Engineer  
Superfund Section, IHSB-Mooresville Regional Office 

**DATE:** November 10, 2008

**RE:** **Health Risk Evaluation Request**  
ABM Landscape Service (WSW No. 5)  
11301 Reames Road  
Charlotte, North Carolina 28269

The August 2008 Semi-Annual Ground Water Monitoring Report by Hart and Hickman states that an irrigation well (WSW No. 5) exists at ABM Landscape Service in Charlotte, North Carolina. The report indicates that the well is used for irrigation and the facility has a municipal water connection. Analytical results of groundwater collected from the irrigation well are summarized in the following table for your review.

| Water Supply Well ID | Sampling Date | Compound        | Concentration (µg/L) |
|----------------------|---------------|-----------------|----------------------|
| WSW No. 5            | 11/2/2004     | Trichloroethene | 0.78                 |
| WSW No. 5            | 11/13/2007    | Trichloroethene | 0.60                 |
| WSW No. 5            | 5/21/2008     | Trichloroethene | 1.3                  |

µg/L = micrograms per liter (~parts per billion)

Sampling of the irrigation well was conducted as part of groundwater monitoring of **NCDOT Asphalt Test Site No. 67** (IHSB # NONCD0002174). Enclosed is a copy of the July 2008 Water Supply Well Sampling report. The reported property owner information includes the following:

The Rowboat Company, Inc.  
858 Williamson Road  
Mooresville, North Carolina 28117

The IHSB requests a Health Risk Evaluation (HRE). If you have questions or need additional information, please contact ABM Landscape Service at (704) 596-7004 or the Mooresville IHSB at (704) 663-1699.

Attachment



OUR CLIENTS DEMAND A SMARTER SOLUTION

**Via 2<sup>nd</sup> Day Federal Express**

July 9, 2008

North Carolina Department of Environment  
and Natural Resources  
610 East Center Avenue  
Suite 301  
Mooresville, North Carolina 28115

Attention: Mr. Bruce Parris

Re: Water Supply Well Sampling Results  
Former NC DOT  
Asphalt Testing Site No. 67  
Charlotte, North Carolina  
H&H Job No. DOT-411

Hart & Hickman, PC  
2923 South Tryon Street  
Suite 100 Charlotte, NC  
28203-5449

704-586-0007 phone  
704-586-0373 fax  
www.harthickman.com



Dear Mr. Parris:

On behalf of the North Carolina Department of Transportation (NC DOT), Hart & Hickman, PC (H&H) recently conducted ground water assessment activities at the former NC DOT asphalt testing laboratory site No. 67 located at 11333 Reames Road in Charlotte, Mecklenburg County, North Carolina. This site is currently operated by Blythe Construction Company as an asphalt product plant. As part of our ground water assessment activities, H&H sampled eight site-related monitoring wells and two off-site non-potable water supply wells (labeled WSW No.5 and WSW No. 8) on May 21, 2008.

Trichloroethene (TCE) was detected in off-site non-potable well WSW No. 5 at a concentration of 1.3 µg/l which is below the North Carolina ground water standard of 2.8 µg/l for TCE. This well is located at 11301 Reames Road approximately 750 ft northwest of the former laboratory on property owned by the Rowboat Company, Inc. This property is currently occupied and leased to ABM Landscaping Services. No target compounds were detected in the sample collected from WSW No. 8 located at 9700 Metromont Industrial Boulevard. The ground water analytical data for the water supply wells are attached to this letter.

Although TCE is a target compound at NC DOT asphalt testing laboratory site No. 67, the source of the ground water impact is not conclusively known at this time. ABM Landscaping Services is located in an industrial area, and there may be other potential sources of TCE in the area. Additional assessment would be required to determine the specific source of the TCE impact.

Mr. Bruce Parris  
July 9, 2008  
Page 2

H&H has provided a copy of this letter and water supply well analytical results to the Mecklenburg County Health Department and the property owner and occupant.

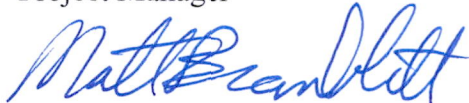
If you have any questions or comments, please feel free to contact us at (704) 586-0007 or NC DOT (Attn: Mr. Chris Niver) at (919) 835-8481.

Very truly yours,

***Hart & Hickman, PC***



Shannon Cottrill  
Project Manager



Matt Bramblett, PE  
Principal and Project Manager

Attachment

MVB/slc

Cc: Mr. Mr. David McDonald, ABM Landscaping (via certified mail)  
Mr. Bob Wilson, The Rowboat Company, Inc. (via certified mail)  
Mr. E. Winters Mabry, MD, Mecklenburg County Health Director (via certified mail)  
Mr. Chris Niver, NC DOT (US Mail)



## Case Narrative

**Date:** 06/05/08  
**Company:** North Carolina Department of Transportation  
**Contact:** Steve Libbey  
**Address:** c/o Hart and Hickman  
2923 South Tryon St. Ste 100  
Charlotte, NC 28203

**Client Project ID:** DOT-111(Reames Rd)  
**Prism COC Group No:** G0508623  
**Collection Date(s):** 05/21/08  
**Lab Submittal Date(s):** 05/22/08  
  
**Client Project Name Or No:** WBS# 34613.1.52

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 42 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

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

### Semi Volatile Analysis

N/A

### Volatile Analysis

Analysis Note for Q32897 LCS Bromomethane: Recovery was outside of the control limits. Compound was not detected in samples associated with this batch. No further action was taken.

Analysis Note for Q32897 MS Bromomethane: Recovery above the control limits.

Analysis Note for Q32897 MSD Bromomethane: Recovery above the control limits.

### Metals Analysis

N/A

### Wet Lab and Micro Analysis

N/A

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

**Date Reviewed by:** Paula A. Gilleland

**Project Manager:** Angela D. Overcash

**Signature:** 

**Signature:** 

**Review Date:** 06/05/08

**Approval Date:** 06/05/08

### Data Qualifiers Key Reference:

B: Compound also detected in the method blank.

#: Result outside of the QC limits.

DO: Compound diluted out.

E: Estimated concentration, calibration range exceeded.

J: The analyte was positively identified but the value is estimated below the reporting limit.

H: Estimated concentration with a high bias.

L: Estimated concentration with a low bias.

M: A matrix effect is present.

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



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

# Laboratory Report

06/04/08

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

Project ID: DOT-111(Reames Rd)  
 Project No.: WBS# 34613.1.52  
 Sample Matrix: Water

Client Sample ID: WSW-5  
 Prism Sample ID: 215064  
 COC Group: G0508623  
 Time Collected: 05/21/08 14:20  
 Time Submitted: 05/22/08 8:57

| Parameter   | Result | Units | Report Limit | MDL   | Dilution Factor | Method | Analysis Date/Time | Analyst  | Batch ID |
|---|--------|-------|--------------|-------|-----------------|--------|--------------------|----------|----------|
| <b><u>Aromatic and Halogenated Volatiles by GC/PID-ELCD</u></b> |        |       |              |       |                 |        |                    |          |          |
| 1,1,1,2-Tetrachloroethane                                       | BRL    | µg/L  | 0.50         | 0.37  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,1,1-Trichloroethane   | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,1,2,2-Tetrachloroethane                                       | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,1,2-Trichloroethane   | BRL    | µg/L  | 0.50         | 0.13  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,1-Dichloroethane  | BRL    | µg/L  | 0.50         | 0.14  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,1-Dichloroethene  | BRL    | µg/L  | 0.50         | 0.19  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,1-Dichloropropene   | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,2,3-Trichlorobenzene  | BRL    | µg/L  | 2.0          | 0.086 | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,2,3-Trichloropropane  | BRL    | µg/L  | 0.50         | 0.17  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,2,4-Trichlorobenzene  | BRL    | µg/L  | 1.0          | 0.47  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,2,4-Trimethylbenzene  | BRL    | µg/L  | 0.50         | 0.25  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,2-Dibromo-3-chloropropane                                     | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,2-Dibromoethane (EDB)   | BRL    | µg/L  | 0.50         | 0.12  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,2-Dichlorobenzene   | BRL    | µg/L  | 0.50         | 0.096 | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,2-Dichloroethane  | BRL    | µg/L  | 0.50         | 0.16  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,2-Dichloropropane   | BRL    | µg/L  | 0.50         | 0.16  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,3,5-Trimethylbenzene  | BRL    | µg/L  | 0.50         | 0.30  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,3-Dichlorobenzene   | BRL    | µg/L  | 0.50         | 0.17  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,3-Dichloropropane   | BRL    | µg/L  | 0.50         | 0.11  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 1,4-Dichlorobenzene   | BRL    | µg/L  | 0.50         | 0.12  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 2,2-Dichloropropane   | BRL    | µg/L  | 0.50         | 0.51  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 2-Chlorotoluene   | BRL    | µg/L  | 0.50         | 0.22  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| 4-Chlorotoluene   | BRL    | µg/L  | 1.0          | 0.13  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Benzene   | BRL    | µg/L  | 0.50         | 0.19  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Bromobenzene  | BRL    | µg/L  | 0.50         | 0.066 | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Bromochloromethane  | BRL    | µg/L  | 0.50         | 0.10  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Bromodichloromethane  | BRL    | µg/L  | 0.50         | 0.11  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |

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

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

Page 25 of 33



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

# Laboratory Report

06/04/08

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

Project ID: DOT-111(Reames Rd)  
 Project No.: WBS# 34613.1.52  
 Sample Matrix: Water

Client Sample ID: WSW-5  
 Prism Sample ID: 215064  
 COC Group: G0508623  
 Time Collected: 05/21/08 14:20  
 Time Submitted: 05/22/08 8:57

| Parameter                   | Result | Units | Report Limit | MDL   | Dilution Factor | Method | Analysis Date/Time | Analyst  | Batch ID |
|-----------------------------|--------|-------|--------------|-------|-----------------|--------|--------------------|----------|----------|
| Bromoform                   | BRL    | µg/L  | 0.50         | 0.094 | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Bromomethane                | BRL    | µg/L  | 0.50         | 0.087 | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Carbon Tetrachloride        | BRL    | µg/L  | 0.50         | 0.23  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Chlorobenzene               | BRL    | µg/L  | 0.50         | 0.37  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Chloroethane                | BRL    | µg/L  | 0.50         | 0.25  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Chloroform                  | BRL    | µg/L  | 0.50         | 0.18  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Chloromethane               | BRL    | µg/L  | 0.50         | 0.24  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| cis-1,2-Dichloroethene      | BRL    | µg/L  | 0.50         | 0.19  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| cis-1,3-Dichloropropene     | BRL    | µg/L  | 0.50         | 0.16  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Dibromochloromethane        | BRL    | µg/L  | 0.50         | 0.12  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Dibromomethane              | BRL    | µg/L  | 0.50         | 0.097 | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Dichlorodifluoromethane     | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Ethylbenzene                | BRL    | µg/L  | 0.50         | 0.28  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Hexachlorobutadiene         | BRL    | µg/L  | 1.0          | 0.16  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Isopropyl ether (IPE)       | BRL    | µg/L  | 0.50         | 0.18  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Isopropylbenzene            | BRL    | µg/L  | 0.50         | 0.27  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| m,p-Xylenes                 | BRL    | µg/L  | 1.0          | 0.51  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Methyl t-butyl ether (MTBE) | BRL    | µg/L  | 0.50         | 0.17  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Methylene chloride          | BRL    | µg/L  | 2.0          | 0.12  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| n-Butylbenzene              | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| n-Propylbenzene             | BRL    | µg/L  | 0.50         | 0.32  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Naphthalene                 | BRL    | µg/L  | 1.0          | 0.63  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| o-Xylene                    | BRL    | µg/L  | 0.50         | 0.31  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| p-Isopropyltoluene          | BRL    | µg/L  | 0.50         | 0.23  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| sec-Butylbenzene            | BRL    | µg/L  | 0.50         | 0.28  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Styrene                     | BRL    | µg/L  | 0.50         | 0.23  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| tert-Butylbenzene           | BRL    | µg/L  | 0.50         | 0.32  | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |

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

# Laboratory Report

06/04/08

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

Project ID: DOT-111(Reames Rd) Client Sample ID: WSW-5  
 Project No.: WBS# 34613.1.52 Prism Sample ID: 215064  
 Sample Matrix: Water COC Group: G0508623  
 Time Collected: 05/21/08 14:20  
 Time Submitted: 05/22/08 8:57

| Parameter                 | Result | Units | Report Limit | MDL  | Dilution Factor | Method | Analysis Date/Time | Analyst  | Batch ID |
|---------------------------|--------|-------|--------------|------|-----------------|--------|--------------------|----------|----------|
| Tetrachloroethene         | BRL    | µg/L  | 0.50         | 0.26 | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Toluene                   | BRL    | µg/L  | 0.50         | 0.23 | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| trans-1,2-Dichloroethene  | BRL    | µg/L  | 0.50         | 0.17 | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| trans-1,3-Dichloropropene | BRL    | µg/L  | 0.50         | 0.19 | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Trichloroethene           | 1.3    | µg/L  | 0.50         | 0.21 | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Trichlorofluoromethane    | BRL    | µg/L  | 0.50         | 0.24 | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |
| Vinyl chloride            | BRL    | µg/L  | 0.50         | 0.38 | 1               | 6230D  | 05/30/08 5:11      | erussell | Q32897   |

| Surrogate               | % Recovery | Control Limits |
|-------------------------|------------|----------------|
| Bromochlorobenzene-ELCD | 94         | 60 - 144       |
| 1,4-Difluorobenzene-PID | 110        | 50 - 141       |

**Sample Comment(s):**

*BRL = Below Reporting Limit*

*Values are reported down to the reporting limit only. No J-Flags applied.*

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

*All results are reported on a wet-weight basis*

Angela D. Overcash, V.P. Laboratory Services



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

# Laboratory Report

06/04/08

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

Project ID: DOT-111(Reames Rd)  
 Project No.: WBS# 34613.1.52  
 Sample Matrix: Water

Client Sample ID: WSW-8  
 Prism Sample ID: 215065  
 COC Group: G0508623  
 Time Collected: 05/21/08 14:40  
 Time Submitted: 05/22/08 8:57

| Parameter   | Result | Units | Report Limit | MDL   | Dilution Factor | Method | Analysis Date/Time | Analyst  | Batch ID |
|---|--------|-------|--------------|-------|-----------------|--------|--------------------|----------|----------|
| <b><u>Aromatic and Halogenated Volatiles by GC/PID-ELCD</u></b> |        |       |              |       |                 |        |                    |          |          |
| 1,1,1,2-Tetrachloroethane                                       | BRL    | µg/L  | 0.50         | 0.37  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,1,1-Trichloroethane   | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,1,2,2-Tetrachloroethane                                       | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,1,2-Trichloroethane   | BRL    | µg/L  | 0.50         | 0.13  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,1-Dichloroethane  | BRL    | µg/L  | 0.50         | 0.14  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,1-Dichloroethene  | BRL    | µg/L  | 0.50         | 0.19  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,1-Dichloropropene   | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,2,3-Trichlorobenzene  | BRL    | µg/L  | 2.0          | 0.086 | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,2,3-Trichloropropane  | BRL    | µg/L  | 0.50         | 0.17  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,2,4-Trichlorobenzene  | BRL    | µg/L  | 1.0          | 0.47  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,2,4-Trimethylbenzene  | BRL    | µg/L  | 0.50         | 0.25  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,2-Dibromo-3-chloropropane                                     | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,2-Dibromoethane (EDB)   | BRL    | µg/L  | 0.50         | 0.12  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,2-Dichlorobenzene   | BRL    | µg/L  | 0.50         | 0.096 | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,2-Dichloroethane  | BRL    | µg/L  | 0.50         | 0.16  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,2-Dichloropropane   | BRL    | µg/L  | 0.50         | 0.16  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,3,5-Trimethylbenzene  | BRL    | µg/L  | 0.50         | 0.30  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,3-Dichlorobenzene   | BRL    | µg/L  | 0.50         | 0.17  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,3-Dichloropropane   | BRL    | µg/L  | 0.50         | 0.11  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 1,4-Dichlorobenzene   | BRL    | µg/L  | 0.50         | 0.12  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 2,2-Dichloropropane   | BRL    | µg/L  | 0.50         | 0.51  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 2-Chlorotoluene   | BRL    | µg/L  | 0.50         | 0.22  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| 4-Chlorotoluene   | BRL    | µg/L  | 1.0          | 0.13  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Benzene   | BRL    | µg/L  | 0.50         | 0.19  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Bromobenzene  | BRL    | µg/L  | 0.50         | 0.066 | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Bromochloromethane  | BRL    | µg/L  | 0.50         | 0.10  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Bromodichloromethane  | BRL    | µg/L  | 0.50         | 0.11  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |

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

# Laboratory Report

06/04/08

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

Project ID: DOT-111(Reames Rd)  
 Project No.: WBS# 34613.1.52  
 Sample Matrix: Water

Client Sample ID: WSW-8  
 Prism Sample ID: 215065  
 COC Group: G0508623  
 Time Collected: 05/21/08 14:40  
 Time Submitted: 05/22/08 8:57

| Parameter                   | Result | Units | Report Limit | MDL   | Dilution Factor | Method | Analysis Date/Time | Analyst  | Batch ID |
|-----------------------------|--------|-------|--------------|-------|-----------------|--------|--------------------|----------|----------|
| Bromoform                   | BRL    | µg/L  | 0.50         | 0.094 | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Bromomethane                | BRL    | µg/L  | 0.50         | 0.087 | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Carbon Tetrachloride        | BRL    | µg/L  | 0.50         | 0.23  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Chlorobenzene               | BRL    | µg/L  | 0.50         | 0.37  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Chloroethane                | BRL    | µg/L  | 0.50         | 0.25  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Chloroform                  | BRL    | µg/L  | 0.50         | 0.18  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Chloromethane               | BRL    | µg/L  | 0.50         | 0.24  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| cis-1,2-Dichloroethene      | BRL    | µg/L  | 0.50         | 0.19  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| cis-1,3-Dichloropropene     | BRL    | µg/L  | 0.50         | 0.16  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Dibromochloromethane        | BRL    | µg/L  | 0.50         | 0.12  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Dibromomethane              | BRL    | µg/L  | 0.50         | 0.097 | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Dichlorodifluoromethane     | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Ethylbenzene                | BRL    | µg/L  | 0.50         | 0.28  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Hexachlorobutadiene         | BRL    | µg/L  | 1.0          | 0.16  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Isopropyl ether (IPE)       | BRL    | µg/L  | 0.50         | 0.18  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Isopropylbenzene            | BRL    | µg/L  | 0.50         | 0.27  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| m,p-Xylenes                 | BRL    | µg/L  | 1.0          | 0.51  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Methyl t-butyl ether (MTBE) | BRL    | µg/L  | 0.50         | 0.17  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Methylene chloride          | BRL    | µg/L  | 2.0          | 0.12  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| n-Butylbenzene              | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| n-Propylbenzene             | BRL    | µg/L  | 0.50         | 0.32  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Naphthalene                 | BRL    | µg/L  | 1.0          | 0.63  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| o-Xylene                    | BRL    | µg/L  | 0.50         | 0.31  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| p-Isopropyltoluene          | BRL    | µg/L  | 0.50         | 0.23  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| sec-Butylbenzene            | BRL    | µg/L  | 0.50         | 0.28  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Styrene                     | BRL    | µg/L  | 0.50         | 0.23  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| tert-Butylbenzene           | BRL    | µg/L  | 0.50         | 0.32  | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |

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

# Laboratory Report

06/04/08

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

Project ID: DOT-111(Reames Rd)  
 Project No.: WBS# 34613.1.52  
 Sample Matrix: Water

Client Sample ID: WSW-8  
 Prism Sample ID: 215065  
 COC Group: G0508623  
 Time Collected: 05/21/08 14:40  
 Time Submitted: 05/22/08 8:57

| Parameter                 | Result | Units | Report Limit | MDL  | Dilution Factor | Method | Analysis Date/Time | Analyst  | Batch ID |
|---------------------------|--------|-------|--------------|------|-----------------|--------|--------------------|----------|----------|
| Tetrachloroethene         | BRL    | µg/L  | 0.50         | 0.26 | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Toluene                   | BRL    | µg/L  | 0.50         | 0.23 | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| trans-1,2-Dichloroethene  | BRL    | µg/L  | 0.50         | 0.17 | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| trans-1,3-Dichloropropene | BRL    | µg/L  | 0.50         | 0.19 | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Trichloroethene           | BRL    | µg/L  | 0.50         | 0.21 | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Trichlorofluoromethane    | BRL    | µg/L  | 0.50         | 0.24 | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |
| Vinyl chloride            | BRL    | µg/L  | 0.50         | 0.38 | 1               | 6230D  | 05/30/08 10:32     | erussell | Q32897   |

| Surrogate               | % Recovery | Control Limits |
|-------------------------|------------|----------------|
| Bromochlorobenzene-ELCD | 90         | 60 - 144       |
| 1,4-Difluorobenzene-PID | 113        | 50 - 141       |

**Sample Comment(s):**

*BRL = Below Reporting Limit*

*Values are reported down to the reporting limit only. No J-Flags applied.*

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

*All results are reported on a wet-weight basis*

Angela D. Overcash, V.P. Laboratory Services



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

# Laboratory Report

06/04/08

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

Project ID: DOT-111(Reames Rd)  
 Project No.: WBS# 34613.1.52  
 Sample Matrix: Water

Client Sample ID: TRIP BLANK  
 Prism Sample ID: 215076  
 COC Group: G0508623  
 Time Collected: 05/21/08  
 Time Submitted: 05/22/08 8:57

| Parameter   | Result | Units | Report Limit | MDL   | Dilution Factor | Method | Analysis Date/Time | Analyst  | Batch ID |
|---|--------|-------|--------------|-------|-----------------|--------|--------------------|----------|----------|
| <b><u>Aromatic and Halogenated Volatiles by GC/PID-ELCD</u></b> |        |       |              |       |                 |        |                    |          |          |
| 1,1,1,2-Tetrachloroethane                                       | BRL    | µg/L  | 0.50         | 0.37  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,1,1-Trichloroethane   | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,1,2,2-Tetrachloroethane                                       | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,1,2-Trichloroethane   | BRL    | µg/L  | 0.50         | 0.13  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,1-Dichloroethane  | BRL    | µg/L  | 0.50         | 0.14  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,1-Dichloroethene  | BRL    | µg/L  | 0.50         | 0.19  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,1-Dichloropropene   | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,2,3-Trichlorobenzene  | BRL    | µg/L  | 2.0          | 0.086 | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,2,3-Trichloropropane  | BRL    | µg/L  | 0.50         | 0.17  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,2,4-Trichlorobenzene  | BRL    | µg/L  | 1.0          | 0.47  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,2,4-Trimethylbenzene  | BRL    | µg/L  | 0.50         | 0.25  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,2-Dibromo-3-chloropropane                                     | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,2-Dibromoethane (EDB)   | BRL    | µg/L  | 0.50         | 0.12  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,2-Dichlorobenzene   | BRL    | µg/L  | 0.50         | 0.096 | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,2-Dichloroethane  | BRL    | µg/L  | 0.50         | 0.16  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,2-Dichloropropane   | BRL    | µg/L  | 0.50         | 0.16  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,3,5-Trimethylbenzene  | BRL    | µg/L  | 0.50         | 0.30  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,3-Dichlorobenzene   | BRL    | µg/L  | 0.50         | 0.17  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,3-Dichloropropane   | BRL    | µg/L  | 0.50         | 0.11  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 1,4-Dichlorobenzene   | BRL    | µg/L  | 0.50         | 0.12  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 2,2-Dichloropropane   | BRL    | µg/L  | 0.50         | 0.51  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 2-Chlorotoluene   | BRL    | µg/L  | 0.50         | 0.22  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| 4-Chlorotoluene   | BRL    | µg/L  | 1.0          | 0.13  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Benzene   | BRL    | µg/L  | 0.50         | 0.19  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Bromobenzene  | BRL    | µg/L  | 0.50         | 0.066 | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Bromochloromethane  | BRL    | µg/L  | 0.50         | 0.10  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Bromodichloromethane  | BRL    | µg/L  | 0.50         | 0.11  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |

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

# Laboratory Report

06/04/08

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

Project ID: DOT-111(Reames Rd) Client Sample ID: TRIP BLANK  
 Project No.: WBS# 34613.1.52 Prism Sample ID: 215076  
 Sample Matrix: Water COC Group: G0508623  
 Time Collected: 05/21/08  
 Time Submitted: 05/22/08 8:57

| Parameter                   | Result | Units | Report Limit | MDL   | Dilution Factor | Method | Analysis Date/Time | Analyst  | Batch ID |
|-----------------------------|--------|-------|--------------|-------|-----------------|--------|--------------------|----------|----------|
| Bromoform                   | BRL    | µg/L  | 0.50         | 0.094 | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Bromomethane                | BRL    | µg/L  | 0.50         | 0.087 | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Carbon Tetrachloride        | BRL    | µg/L  | 0.50         | 0.23  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Chlorobenzene               | BRL    | µg/L  | 0.50         | 0.37  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Chloroethane                | BRL    | µg/L  | 0.50         | 0.25  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Chloroform                  | BRL    | µg/L  | 0.50         | 0.18  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Chloromethane               | BRL    | µg/L  | 0.50         | 0.24  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| cis-1,2-Dichloroethene      | BRL    | µg/L  | 0.50         | 0.19  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| cis-1,3-Dichloropropene     | BRL    | µg/L  | 0.50         | 0.16  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Dibromochloromethane        | BRL    | µg/L  | 0.50         | 0.12  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Dibromomethane              | BRL    | µg/L  | 0.50         | 0.097 | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Dichlorodifluoromethane     | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Ethylbenzene                | BRL    | µg/L  | 0.50         | 0.28  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Hexachlorobutadiene         | BRL    | µg/L  | 1.0          | 0.16  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Isopropyl ether (IPE)       | BRL    | µg/L  | 0.50         | 0.18  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Isopropylbenzene            | BRL    | µg/L  | 0.50         | 0.27  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| m,p-Xylenes                 | BRL    | µg/L  | 1.0          | 0.51  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Methyl t-butyl ether (MTBE) | BRL    | µg/L  | 0.50         | 0.17  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Methylene chloride          | BRL    | µg/L  | 2.0          | 0.12  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| n-Butylbenzene              | BRL    | µg/L  | 0.50         | 0.21  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| n-Propylbenzene             | BRL    | µg/L  | 0.50         | 0.32  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Naphthalene                 | BRL    | µg/L  | 1.0          | 0.63  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| o-Xylene                    | BRL    | µg/L  | 0.50         | 0.31  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| p-Isopropyltoluene          | BRL    | µg/L  | 0.50         | 0.23  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| sec-Butylbenzene            | BRL    | µg/L  | 0.50         | 0.28  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Styrene                     | BRL    | µg/L  | 0.50         | 0.23  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| tert-Butylbenzene           | BRL    | µg/L  | 0.50         | 0.32  | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |

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

# Laboratory Report

06/04/08

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

Project ID: DOT-111(Reames Rd) Client Sample ID: TRIP BLANK  
 Project No.: WBS# 34613.1.52 Prism Sample ID: 215076  
 Sample Matrix: Water COC Group: G0508623  
 Time Collected: 05/21/08  
 Time Submitted: 05/22/08 8:57

| Parameter                 | Result | Units | Report Limit | MDL  | Dilution Factor | Method | Analysis Date/Time | Analyst  | Batch ID |
|---------------------------|--------|-------|--------------|------|-----------------|--------|--------------------|----------|----------|
| Tetrachloroethene         | BRL    | µg/L  | 0.50         | 0.26 | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Toluene                   | BRL    | µg/L  | 0.50         | 0.23 | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| trans-1,2-Dichloroethene  | BRL    | µg/L  | 0.50         | 0.17 | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| trans-1,3-Dichloropropene | BRL    | µg/L  | 0.50         | 0.19 | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Trichloroethene           | BRL    | µg/L  | 0.50         | 0.21 | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Trichlorofluoromethane    | BRL    | µg/L  | 0.50         | 0.24 | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |
| Vinyl chloride            | BRL    | µg/L  | 0.50         | 0.38 | 1               | 6230D  | 06/04/08 11:54     | erussell | Q32897   |

| Surrogate               | % Recovery | Control Limits |
|-------------------------|------------|----------------|
| Bromochlorobenzene-ELCD | 85         | 60 - 144       |
| 1,4-Difluorobenzene-PID | 96         | 50 - 141       |

**Sample Comment(s):**

*BRL = Below Reporting Limit*

*Values are reported down to the reporting limit only. No J-Flags applied.*

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

*All results are reported on a wet-weight basis*

Angela D. Overcash, V.P. Laboratory Services



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 NC Drinking Water Cert. No. 37735

# Level II QC Report

06/05/08

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

Project ID: DOT-111(Reames Rd)  
 Project No.: WBS# 34613.1.52

COC Group Number: G0508623  
 Date/Time Submitted: 05/22/08 8:57

Aromatic and Halogenated Volatiles by GC/PID-ELCD, method 6230D

| Method Blank                | Result | RL  | Control Limit | Units | QC Batch ID |
|-----------------------------|--------|-----|---------------|-------|-------------|
| 1,1,1,2-Tetrachloroethane   | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,1,1-Trichloroethane       | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,1,2,2-Tetrachloroethane   | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,1,2-Trichloroethane       | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,1-Dichloroethane          | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,1-Dichloroethene          | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,1-Dichloropropene         | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,2,3-Trichlorobenzene      | ND     | 2   | <1            | µg/L  | Q32897      |
| 1,2,3-Trichloropropane      | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,2,4-Trichlorobenzene      | ND     | 1   | <0.5          | µg/L  | Q32897      |
| 1,2,4-Trimethylbenzene      | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,2-Dibromo-3-chloropropane | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,2-Dibromoethane (EDB)     | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,2-Dichlorobenzene         | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,2-Dichloroethane          | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,2-Dichloropropane         | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,3,5-Trimethylbenzene      | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,3-Dichlorobenzene         | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,3-Dichloropropane         | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 1,4-Dichlorobenzene         | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 2,2-Dichloropropane         | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 2-Chlorotoluene             | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| 4-Chlorotoluene             | ND     | 1   | <0.5          | µg/L  | Q32897      |
| Benzene                     | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Bromobenzene                | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Bromochloromethane          | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Bromodichloromethane        | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Bromoform                   | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Bromomethane                | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Carbon Tetrachloride        | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Chlorobenzene               | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Chloroethane                | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Chloroform                  | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Chloromethane               | ND     | 0.5 | <0.25         | µg/L  | Q32897      |



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 NC Drinking Water Cert. No. 37735

# Level II QC Report

06/05/08

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

Project ID: DOT-111(Reames Rd)  
 Project No.: WBS# 34613.1.52

COC Group Number: G0508623

Date/Time Submitted: 05/22/08 8:57

## Method Blank

|                             | Result | RL  | Control Limit | Units | QC Batch ID |
|-----------------------------|--------|-----|---------------|-------|-------------|
| cis-1,2-Dichloroethene      | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| cis-1,3-Dichloropropene     | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Dibromochloromethane        | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Dibromomethane              | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Dichlorodifluoromethane     | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Ethylbenzene                | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Hexachlorobutadiene         | ND     | 1   | <0.5          | µg/L  | Q32897      |
| Isopropyl ether (IPE)       | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Isopropylbenzene            | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| m,p-Xylenes                 | ND     | 1   | <0.5          | µg/L  | Q32897      |
| Methyl t-butyl ether (MTBE) | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Methylene chloride          | ND     | 2   | <1            | µg/L  | Q32897      |
| n-Butylbenzene              | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| n-Propylbenzene             | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Naphthalene                 | ND     | 1   | <0.5          | µg/L  | Q32897      |
| o-Xylene                    | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| p-Isopropyltoluene          | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| sec-Butylbenzene            | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Styrene                     | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| tert-Butylbenzene           | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Tetrachloroethene           | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Toluene                     | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| trans-1,2-Dichloroethene    | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| trans-1,3-Dichloropropene   | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Trichloroethene             | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Trichlorofluoromethane      | ND     | 0.5 | <0.25         | µg/L  | Q32897      |
| Vinyl chloride              | ND     | 0.5 | <0.25         | µg/L  | Q32897      |

## Laboratory Control Sample

|                           | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | QC Batch ID |
|---------------------------|--------|--------------|-------|------------|-------------------|-------------|
| 1,1,1,2-Tetrachloroethane | 43.77  | 40           | µg/L  | 109        | 70-139            | Q32897      |
| 1,1,1-Trichloroethane     | 20.205 | 20           | µg/L  | 101        | 60-140            | Q32897      |
| 1,1,2,2-Tetrachloroethane | 20.776 | 20           | µg/L  | 104        | 60-140            | Q32897      |
| 1,1,2-Trichloroethane     | 21.304 | 20           | µg/L  | 107        | 60-140            | Q32897      |
| 1,1-Dichloroethane        | 20.221 | 20           | µg/L  | 101        | 60-140            | Q32897      |
| 1,1-Dichloroethene        | 21.737 | 20           | µg/L  | 109        | 60-140            | Q32897      |
| 1,1-Dichloropropene       | 19.32  | 20           | µg/L  | 97         | 62-140            | Q32897      |

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

# Level II QC Report

06/05/08

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

Project ID: DOT-111(Reames Rd)  
 Project No.: WBS# 34613.1.52

COC Group Number: G0508623  
 Date/Time Submitted: 05/22/08 8:57

| Laboratory Control Sample   | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | QC Batch ID |
|-----------------------------|--------|--------------|-------|------------|-------------------|-------------|
| 1,2,3-Trichlorobenzene      | 20.812 | 20           | µg/L  | 104        | 72-119            | Q32897      |
| 1,2,3-Trichloropropane      | 20.634 | 20           | µg/L  | 103        | 68-131            | Q32897      |
| 1,2,4-Trichlorobenzene      | 21.031 | 20           | µg/L  | 105        | 58-133            | Q32897      |
| 1,2,4-Trimethylbenzene      | 22.414 | 20           | µg/L  | 112        | 72-125            | Q32897      |
| 1,2-Dibromo-3-chloropropane | 12.043 | 20           | µg/L  | 60         | 50-135            | Q32897      |
| 1,2-Dibromoethane (EDB)     | 19.123 | 20           | µg/L  | 96         | 66-130            | Q32897      |
| 1,2-Dichlorobenzene         | 20.917 | 20           | µg/L  | 105        | 64-137            | Q32897      |
| 1,2-Dichloroethane          | 21.306 | 20           | µg/L  | 107        | 72-137            | Q32897      |
| 1,2-Dichloropropane         | 20.898 | 20           | µg/L  | 104        | 70-139            | Q32897      |
| 1,3,5-Trimethylbenzene      | 22.567 | 20           | µg/L  | 113        | 73-124            | Q32897      |
| 1,3-Dichlorobenzene         | 22.72  | 20           | µg/L  | 114        | 60-137            | Q32897      |
| 1,3-Dichloropropane         | 20.559 | 20           | µg/L  | 103        | 67-131            | Q32897      |
| 1,4-Dichlorobenzene         | 21.033 | 20           | µg/L  | 105        | 64-139            | Q32897      |
| 2,2-Dichloropropane         | 43.17  | 40           | µg/L  | 108        | 62-138            | Q32897      |
| 2-Chlorotoluene             | 21.458 | 20           | µg/L  | 107        | 59-140            | Q32897      |
| 4-Chlorotoluene             | 21.965 | 20           | µg/L  | 110        | 67-140            | Q32897      |
| Benzene                     | 21.177 | 20           | µg/L  | 106        | 68-130            | Q32897      |
| Bromobenzene                | 22.906 | 20           | µg/L  | 115        | 62-133            | Q32897      |
| Bromochloromethane          | 20.115 | 20           | µg/L  | 101        | 69-131            | Q32897      |
| Bromodichloromethane        | 20.286 | 20           | µg/L  | 101        | 72-130            | Q32897      |
| Bromoform                   | 18.402 | 20           | µg/L  | 92         | 59-126            | Q32897      |
| Bromomethane                | 30.857 | 20           | µg/L  | 154 #      | 55-138            | Q32897      |
| Carbon Tetrachloride        | 20.612 | 20           | µg/L  | 103        | 70-144            | Q32897      |
| Chlorobenzene               | 23.152 | 20           | µg/L  | 116        | 75-122            | Q32897      |
| Chloroethane                | 18.854 | 20           | µg/L  | 94         | 63-145            | Q32897      |
| Chloroform                  | 20.467 | 20           | µg/L  | 102        | 71-137            | Q32897      |
| Chloromethane               | 14.352 | 20           | µg/L  | 72         | 50-144            | Q32897      |
| cis-1,2-Dichloroethene      | 22.207 | 20           | µg/L  | 111        | 62-138            | Q32897      |
| cis-1,3-Dichloropropene     | 19.948 | 20           | µg/L  | 100        | 67-133            | Q32897      |
| Dibromochloromethane        | 20.913 | 20           | µg/L  | 105        | 65-133            | Q32897      |
| Dibromomethane              | 20.279 | 20           | µg/L  | 101        | 71-133            | Q32897      |
| Dichlorodifluoromethane     | 14.616 | 20           | µg/L  | 73         | 52-152            | Q32897      |
| Ethylbenzene                | 21.78  | 20           | µg/L  | 109        | 74-130            | Q32897      |
| Hexachlorobutadiene         | 21.896 | 20           | µg/L  | 109        | 52-149            | Q32897      |
| Isopropyl ether (IPE)       | 20.64  | 20           | µg/L  | 103        | 70-121            | Q32897      |
| Isopropylbenzene            | 20.644 | 20           | µg/L  | 103        | 71-130            | Q32897      |

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NC Certification No. 402  
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# Level II QC Report

06/05/08

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

Project ID: DOT-111(Reames Rd)  
 Project No.: WBS# 34613.1.52

COC Group Number: G0508623  
 Date/Time Submitted: 05/22/08 8:57

| Laboratory Control Sample   | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | QC Batch ID |
|-----------------------------|--------|--------------|-------|------------|-------------------|-------------|
| m,p-Xylenes                 | 42.923 | 40           | µg/L  | 107        | 74-128            | Q32897      |
| Methyl t-butyl ether (MTBE) | 22.029 | 20           | µg/L  | 110        | 75-119            | Q32897      |
| Methylene chloride          | 21.227 | 20           | µg/L  | 106        | 68-133            | Q32897      |
| n-Butylbenzene              | 20.407 | 20           | µg/L  | 102        | 70-135            | Q32897      |
| n-Propylbenzene             | 21.645 | 20           | µg/L  | 108        | 75-128            | Q32897      |
| Naphthalene                 | 21.045 | 20           | µg/L  | 105        | 71-114            | Q32897      |
| o-Xylene                    | 21.127 | 20           | µg/L  | 106        | 65-130            | Q32897      |
| p-Isopropyltoluene          | 21.143 | 20           | µg/L  | 106        | 59-138            | Q32897      |
| sec-Butylbenzene            | 20.53  | 20           | µg/L  | 103        | 66-136            | Q32897      |
| Styrene                     | 21.755 | 20           | µg/L  | 109        | 78-122            | Q32897      |
| tert-Butylbenzene           | 18.93  | 20           | µg/L  | 95         | 65-133            | Q32897      |
| Tetrachloroethene           | 21.303 | 20           | µg/L  | 107        | 66-145            | Q32897      |
| Toluene                     | 22.011 | 20           | µg/L  | 110        | 69-129            | Q32897      |
| trans-1,2-Dichloroethene    | 21.909 | 20           | µg/L  | 110        | 59-144            | Q32897      |
| trans-1,3-Dichloropropene   | 19.612 | 20           | µg/L  | 98         | 67-130            | Q32897      |
| Trichloroethene             | 20.509 | 20           | µg/L  | 103        | 52-152            | Q32897      |
| Trichlorofluoromethane      | 21.602 | 20           | µg/L  | 108        | 52-153            | Q32897      |
| Vinyl chloride              | 19.648 | 20           | µg/L  | 98         | 48-144            | Q32897      |

| Matrix Spike                     | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | QC Batch ID |
|----------------------------------|--------|--------------|-------|------------|-------------------|-------------|
| 215133 1,1,1,2-Tetrachloroethane | 178.16 | 160          | µg/L  | 111        | 60-134            | Q32897      |
| 1,1,1-Trichloroethane            | 84.648 | 80           | µg/L  | 106        | 60-133            | Q32897      |
| 1,1,2,2-Tetrachloroethane        | 89.356 | 80           | µg/L  | 112        | 58-143            | Q32897      |
| 1,1,2-Trichloroethane            | 85.216 | 80           | µg/L  | 107        | 58-138            | Q32897      |
| 1,1-Dichloroethane               | 83.076 | 80           | µg/L  | 104        | 57-131            | Q32897      |
| 1,1-Dichloroethene               | 89.552 | 80           | µg/L  | 112        | 53-141            | Q32897      |
| 1,1-Dichloropropene              | 81.56  | 80           | µg/L  | 102        | 53-135            | Q32897      |
| 1,2,3-Trichlorobenzene           | 80.732 | 80           | µg/L  | 101        | 53-129            | Q32897      |
| 1,2,3-Trichloropropane           | 89.376 | 80           | µg/L  | 112        | 63-135            | Q32897      |
| 1,2,4-Trichlorobenzene           | 82.888 | 80           | µg/L  | 104        | 51-129            | Q32897      |
| 1,2,4-Trimethylbenzene           | 84.808 | 80           | µg/L  | 106        | 70-121            | Q32897      |
| 1,2-Dibromo-3-chloropropane      | 49.848 | 80           | µg/L  | 62         | 46-137            | Q32897      |
| 1,2-Dibromoethane (EDB)          | 75.412 | 80           | µg/L  | 94         | 60-133            | Q32897      |
| 1,2-Dichlorobenzene              | 84.804 | 80           | µg/L  | 106        | 64-130            | Q32897      |
| 1,2-Dichloroethane               | 87.368 | 80           | µg/L  | 109        | 66-136            | Q32897      |
| 1,2-Dichloropropane              | 86.404 | 80           | µg/L  | 108        | 64-133            | Q32897      |

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

# Level II QC Report

06/05/08

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

Project ID: DOT-111(Reames Rd)  
 Project No.: WBS# 34613.1.52

COC Group Number: G0508623  
 Date/Time Submitted: 05/22/08 8:57

| Matrix Spike |                             | Result  | Spike Amount | Units | Recovery % | Recovery Ranges % | QC Batch ID |
|--------------|-----------------------------|---------|--------------|-------|------------|-------------------|-------------|
| Sample ID:   |                             |         |              |       |            |                   |             |
| 215133       | 1,3,5-Trimethylbenzene      | 88.584  | 80           | µg/L  | 111        | 66-121            | Q32897      |
|              | 1,3-Dichlorobenzene         | 91.396  | 80           | µg/L  | 114        | 58-130            | Q32897      |
|              | 1,3-Dichloropropane         | 83.496  | 80           | µg/L  | 104        | 62-130            | Q32897      |
|              | 1,4-Dichlorobenzene         | 84.604  | 80           | µg/L  | 106        | 59-136            | Q32897      |
|              | 2,2-Dichloropropane         | 178.32  | 160          | µg/L  | 111        | 58-127            | Q32897      |
|              | 2-Chlorotoluene             | 86.488  | 80           | µg/L  | 108        | 56-134            | Q32897      |
|              | 4-Chlorotoluene             | 88.624  | 80           | µg/L  | 111        | 56-141            | Q32897      |
|              | Benzene                     | 86.412  | 80           | µg/L  | 108        | 69-122            | Q32897      |
|              | Bromobenzene                | 92.088  | 80           | µg/L  | 115        | 61-128            | Q32897      |
|              | Bromochloromethane          | 82.332  | 80           | µg/L  | 103        | 62-128            | Q32897      |
|              | Bromodichloromethane        | 83.424  | 80           | µg/L  | 104        | 63-127            | Q32897      |
|              | Bromoform                   | 72.784  | 80           | µg/L  | 91         | 56-127            | Q32897      |
|              | Bromomethane                | 127.556 | 80           | µg/L  | 159 #      | 57-134            | Q32897      |
|              | Carbon Tetrachloride        | 85.276  | 80           | µg/L  | 107        | 64-133            | Q32897      |
|              | Chlorobenzene               | 91.204  | 80           | µg/L  | 114        | 72-117            | Q32897      |
|              | Chloroethane                | 85.168  | 80           | µg/L  | 106        | 57-143            | Q32897      |
|              | Chloroform                  | 85.268  | 80           | µg/L  | 107        | 65-133            | Q32897      |
|              | Chloromethane               | 71.996  | 80           | µg/L  | 90         | 45-142            | Q32897      |
|              | cis-1,2-Dichloroethene      | 91.568  | 80           | µg/L  | 114        | 58-127            | Q32897      |
|              | cis-1,3-Dichloropropene     | 80.776  | 80           | µg/L  | 101        | 62-129            | Q32897      |
|              | Dibromochloromethane        | 83.552  | 80           | µg/L  | 104        | 59-132            | Q32897      |
|              | Dibromomethane              | 84.6    | 80           | µg/L  | 106        | 64-134            | Q32897      |
|              | Dichlorodifluoromethane     | 48.98   | 80           | µg/L  | 61         | 52-138            | Q32897      |
|              | Ethylbenzene                | 91.268  | 80           | µg/L  | 114        | 71-122            | Q32897      |
|              | Hexachlorobutadiene         | 87.696  | 80           | µg/L  | 110        | 54-134            | Q32897      |
|              | Isopropyl ether (IPE)       | 83.452  | 80           | µg/L  | 104        | 73-115            | Q32897      |
|              | Isopropylbenzene            | 84.032  | 80           | µg/L  | 105        | 69-121            | Q32897      |
|              | m,p-Xylenes                 | 171.792 | 160          | µg/L  | 107        | 69-122            | Q32897      |
|              | Methyl t-butyl ether (MTBE) | 90.832  | 80           | µg/L  | 114        | 75-116            | Q32897      |
|              | Methylene chloride          | 87.82   | 80           | µg/L  | 110        | 58-137            | Q32897      |
|              | n-Butylbenzene              | 82.004  | 80           | µg/L  | 103        | 71-121            | Q32897      |
|              | n-Propylbenzene             | 88.752  | 80           | µg/L  | 111        | 73-119            | Q32897      |
|              | Naphthalene                 | 79.872  | 80           | µg/L  | 100        | 64-118            | Q32897      |
|              | o-Xylene                    | 92.284  | 80           | µg/L  | 115        | 66-124            | Q32897      |
|              | p-Isopropyltoluene          | 84.44   | 80           | µg/L  | 106        | 61-127            | Q32897      |
|              | sec-Butylbenzene            | 82.884  | 80           | µg/L  | 104        | 65-126            | Q32897      |

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

# Level II QC Report

06/05/08

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

Project ID: DOT-111(Reames Rd)  
 Project No.: WBS# 34613.1.52

COC Group Number: G0508623

Date/Time Submitted: 05/22/08 8:57

| Matrix Spike              |        |              |       |            |                   |             |
|---------------------------|--------|--------------|-------|------------|-------------------|-------------|
| Sample ID:                | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | QC Batch ID |
| 215133 Styrene            | 79.992 | 80           | µg/L  | 100        | 64-124            | Q32897      |
| tert-Butylbenzene         | 83.988 | 80           | µg/L  | 105        | 63-123            | Q32897      |
| Tetrachloroethene         | 86.28  | 80           | µg/L  | 108        | 62-135            | Q32897      |
| Toluene                   | 88.852 | 80           | µg/L  | 111        | 71-120            | Q32897      |
| trans-1,2-Dichloroethene  | 91.24  | 80           | µg/L  | 114        | 62-133            | Q32897      |
| trans-1,3-Dichloropropene | 78.208 | 80           | µg/L  | 98         | 58-129            | Q32897      |
| Trichloroethene           | 80.692 | 80           | µg/L  | 101        | 56-128            | Q32897      |
| Trichlorofluoromethane    | 92.464 | 80           | µg/L  | 116        | 49-147            | Q32897      |
| Vinyl chloride            | 85.752 | 80           | µg/L  | 107        | 53-135            | Q32897      |

| Matrix Spike Duplicate           |        |              |       |            |                   |       |             |             |
|----------------------------------|--------|--------------|-------|------------|-------------------|-------|-------------|-------------|
| Sample ID:                       | Result | Spike Amount | Units | Recovery % | Recovery Ranges % | RPD % | RPD Range % | QC Batch ID |
| 215133 1,1,1,2-Tetrachloroethane | 170.32 | 160          | µg/L  | 106        | 60-134            | 4     | 0 - 20      | Q32897      |
| 1,1,1-Trichloroethane            | 78.952 | 80           | µg/L  | 99         | 60-133            | 7     | 0 - 20      | Q32897      |
| 1,1,2,2-Tetrachloroethane        | 89.644 | 80           | µg/L  | 112        | 58-143            | 0     | 0 - 20      | Q32897      |
| 1,1,2-Trichloroethane            | 82.94  | 80           | µg/L  | 104        | 58-138            | 3     | 0 - 20      | Q32897      |
| 1,1-Dichloroethane               | 79.608 | 80           | µg/L  | 100        | 57-131            | 4     | 0 - 20      | Q32897      |
| 1,1-Dichloroethene               | 83.492 | 80           | µg/L  | 104        | 53-141            | 7     | 0 - 20      | Q32897      |
| 1,1-Dichloropropene              | 77.552 | 80           | µg/L  | 97         | 53-135            | 5     | 0 - 20      | Q32897      |
| 1,2,3-Trichlorobenzene           | 85.568 | 80           | µg/L  | 107        | 53-129            | 6     | 0 - 20      | Q32897      |
| 1,2,3-Trichloropropane           | 85.024 | 80           | µg/L  | 106        | 63-135            | 5     | 0 - 20      | Q32897      |
| 1,2,4-Trichlorobenzene           | 84.2   | 80           | µg/L  | 105        | 51-129            | 2     | 0 - 20      | Q32897      |
| 1,2,4-Trimethylbenzene           | 84.74  | 80           | µg/L  | 106        | 70-121            | 0     | 0 - 20      | Q32897      |
| 1,2-Dibromo-3-chloropropane      | 48.328 | 80           | µg/L  | 60         | 46-137            | 3     | 0 - 20      | Q32897      |
| 1,2-Dibromoethane (EDB)          | 73.844 | 80           | µg/L  | 92         | 60-133            | 2     | 0 - 20      | Q32897      |
| 1,2-Dichlorobenzene              | 83.952 | 80           | µg/L  | 105        | 64-130            | 1     | 0 - 20      | Q32897      |
| 1,2-Dichloroethane               | 83.256 | 80           | µg/L  | 104        | 66-136            | 5     | 0 - 20      | Q32897      |
| 1,2-Dichloropropane              | 81.592 | 80           | µg/L  | 102        | 64-133            | 6     | 0 - 20      | Q32897      |
| 1,3,5-Trimethylbenzene           | 83.996 | 80           | µg/L  | 105        | 66-121            | 5     | 0 - 20      | Q32897      |
| 1,3-Dichlorobenzene              | 89.792 | 80           | µg/L  | 112        | 58-130            | 2     | 0 - 20      | Q32897      |
| 1,3-Dichloropropane              | 80.736 | 80           | µg/L  | 101        | 62-130            | 3     | 0 - 20      | Q32897      |
| 1,4-Dichlorobenzene              | 83.244 | 80           | µg/L  | 104        | 59-136            | 2     | 0 - 20      | Q32897      |
| 2,2-Dichloropropane              | 168.04 | 160          | µg/L  | 105        | 58-127            | 6     | 0 - 20      | Q32897      |
| 2-Chlorotoluene                  | 86.088 | 80           | µg/L  | 108        | 56-134            | 0     | 0 - 20      | Q32897      |
| 4-Chlorotoluene                  | 85.544 | 80           | µg/L  | 107        | 56-141            | 4     | 0 - 20      | Q32897      |
| Benzene                          | 81.776 | 80           | µg/L  | 102        | 69-122            | 6     | 0 - 20      | Q32897      |
| Bromobenzene                     | 90.332 | 80           | µg/L  | 113        | 61-128            | 2     | 0 - 20      | Q32897      |

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

# Level II QC Report

06/05/08

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

Project ID: DOT-111(Reames Rd)  
 Project No.: WBS# 34613.1.52

COC Group Number: G0508623  
 Date/Time Submitted: 05/22/08 8:57

## Matrix Spike Duplicate

| Sample ID:                  | Result  | Spike Amount | Units | Recovery % | Recovery Ranges % | RPD % | RPD Range % | QC Batch ID |
|-----------------------------|---------|--------------|-------|------------|-------------------|-------|-------------|-------------|
| 215133 Bromochloromethane   | 79.788  | 80           | µg/L  | 100        | 62-128            | 3     | 0 - 20      | Q32897      |
| Bromodichloromethane        | 78.752  | 80           | µg/L  | 98         | 63-127            | 6     | 0 - 20      | Q32897      |
| Bromofom                    | 72.336  | 80           | µg/L  | 90         | 56-127            | 1     | 0 - 20      | Q32897      |
| Bromomethane                | 121.26  | 80           | µg/L  | 152 #      | 57-134            | 5     | 0 - 20      | Q32897      |
| Carbon Tetrachloride        | 79.316  | 80           | µg/L  | 99         | 64-133            | 7     | 0 - 20      | Q32897      |
| Chlorobenzene               | 88.672  | 80           | µg/L  | 111        | 72-117            | 3     | 0 - 20      | Q32897      |
| Chloroethane                | 83.984  | 80           | µg/L  | 105        | 57-143            | 1     | 0 - 20      | Q32897      |
| Chloroform                  | 81.48   | 80           | µg/L  | 102        | 65-133            | 5     | 0 - 20      | Q32897      |
| Chloromethane               | 72.18   | 80           | µg/L  | 90         | 45-142            | 0     | 0 - 20      | Q32897      |
| cis-1,2-Dichloroethene      | 86.32   | 80           | µg/L  | 108        | 58-127            | 6     | 0 - 20      | Q32897      |
| cis-1,3-Dichloropropene     | 78.116  | 80           | µg/L  | 98         | 62-129            | 3     | 0 - 20      | Q32897      |
| Dibromochloromethane        | 79.496  | 80           | µg/L  | 99         | 59-132            | 5     | 0 - 20      | Q32897      |
| Dibromomethane              | 83.904  | 80           | µg/L  | 105        | 64-134            | 1     | 0 - 20      | Q32897      |
| Dichlorodifluoromethane     | 57.6    | 80           | µg/L  | 72         | 52-138            | 16    | 0 - 20      | Q32897      |
| Ethylbenzene                | 87.364  | 80           | µg/L  | 109        | 71-122            | 4     | 0 - 20      | Q32897      |
| Hexachlorobutadiene         | 86.248  | 80           | µg/L  | 108        | 54-134            | 2     | 0 - 20      | Q32897      |
| Isopropyl ether (IPE)       | 80.984  | 80           | µg/L  | 101        | 73-115            | 3     | 0 - 20      | Q32897      |
| Isopropylbenzene            | 80.496  | 80           | µg/L  | 101        | 69-121            | 4     | 0 - 20      | Q32897      |
| m,p-Xylenes                 | 165.288 | 160          | µg/L  | 103        | 69-122            | 4     | 0 - 20      | Q32897      |
| Methyl t-butyl ether (MTBE) | 89.912  | 80           | µg/L  | 112        | 75-116            | 1     | 0 - 20      | Q32897      |
| Methylene chloride          | 85.724  | 80           | µg/L  | 107        | 58-137            | 2     | 0 - 20      | Q32897      |
| n-Butylbenzene              | 79.124  | 80           | µg/L  | 99         | 71-121            | 4     | 0 - 20      | Q32897      |
| n-Propylbenzene             | 84.508  | 80           | µg/L  | 106        | 73-119            | 5     | 0 - 20      | Q32897      |
| Naphthalene                 | 84.604  | 80           | µg/L  | 106        | 64-118            | 6     | 0 - 20      | Q32897      |
| o-Xylene                    | 82.596  | 80           | µg/L  | 103        | 66-124            | 11    | 0 - 20      | Q32897      |
| p-Isopropyltoluene          | 81.328  | 80           | µg/L  | 102        | 61-127            | 4     | 0 - 20      | Q32897      |
| sec-Butylbenzene            | 79.744  | 80           | µg/L  | 100        | 65-126            | 4     | 0 - 20      | Q32897      |
| Styrene                     | 80.988  | 80           | µg/L  | 101        | 64-124            | 1     | 0 - 20      | Q32897      |
| tert-Butylbenzene           | 76.152  | 80           | µg/L  | 95         | 63-123            | 10    | 0 - 20      | Q32897      |
| Tetrachloroethene           | 81.292  | 80           | µg/L  | 102        | 62-135            | 6     | 0 - 20      | Q32897      |
| Toluene                     | 85.392  | 80           | µg/L  | 107        | 71-120            | 4     | 0 - 20      | Q32897      |
| trans-1,2-Dichloroethene    | 84.796  | 80           | µg/L  | 106        | 62-133            | 7     | 0 - 20      | Q32897      |
| trans-1,3-Dichloropropene   | 77.128  | 80           | µg/L  | 96         | 58-129            | 1     | 0 - 20      | Q32897      |
| Trichloroethene             | 76.22   | 80           | µg/L  | 95         | 56-128            | 6     | 0 - 20      | Q32897      |
| Trichlorofluoromethane      | 88.452  | 80           | µg/L  | 111        | 49-147            | 4     | 0 - 20      | Q32897      |
| Vinyl chloride              | 84.012  | 80           | µg/L  | 105        | 53-135            | 2     | 0 - 20      | Q32897      |

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

# Level II QC Report

06/05/08

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

Project ID: DOT-111(Reames Rd)  
Project No.: WBS# 34613.1.52

COC Group Number: G0508623  
Date/Time Submitted: 05/22/08 8:57

#-See Case Narrative

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Full Service Analytical & Environmental Solutions

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Phone: 704/529-6384 • Fax: 704/525-0409

Client Company Name: HART & HICKMAN

Report To/Contact Name: STEVE LIBBEY

Reporting Address: 2923 S. PRYON ST. SUITE 100  
CHARLOTTE NC 28203

Phone: 704-887-4606 Fax (Yes) (No):

Email (Yes) (No) Email Address:

EDD Type: PDF  Excel  Other

Site Location Name: Former NCDOT A15 #67

Site Location Physical Address: 11333 Reames Rd. Ch. NC

# CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: \_\_\_\_\_

Project Name: DOT 111

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 - CHRIS NIVER

Address: \_\_\_\_\_

Purchase Order No./Billing Reference NBS: 34613152

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: <u>4.7°</u> | <input checked="" type="checkbox"/> |    |                                     |
| PROPER PRESERVATIVES indicated?        |                                     |    | <input checked="" type="checkbox"/> |
| Received WITHIN HOLDING TIMES?         | <input checked="" type="checkbox"/> |    |                                     |
| CUSTODY SEALS INTACT?                  |                                     |    | <input checked="" type="checkbox"/> |
| VOLATILES (COOL) W/OUT HEADSPACE?      | <input checked="" type="checkbox"/> |    |                                     |
| PROPER CONTAINERS used?                | <input checked="" type="checkbox"/> |    |                                     |

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) | SAMPLE CONTAINER |     |      | PRESERVATIVES | ANALYSES REQUESTED                  | REMARKS | PRISM LAB ID NO. |        |
|---------------------------|----------------|-------------------------------|--------------------------------|------------------|-----|------|---------------|-------------------------------------|---------|------------------|--------|
|                           |                |                               |                                | TYPE SEE BELOW   | NO. | SIZE |               |                                     |         |                  |        |
| MW-11                     | 052108         | 11:10                         | Water                          | C-VOA            | 3   | 40ml | HCl           | <input checked="" type="checkbox"/> |         |                  | 215056 |
| DMW-1                     |                | 12:05                         |                                |                  | 3   |      |               | <input checked="" type="checkbox"/> |         |                  | 215057 |
| DMW-2                     |                | 12:30                         |                                |                  | 3   |      |               | <input checked="" type="checkbox"/> |         |                  | 215058 |
| DMW-3                     |                | 12:50                         |                                |                  | 3   |      |               | <input checked="" type="checkbox"/> |         |                  | 215059 |
| MW-4                      |                | 13:00                         |                                |                  | 3   |      |               | <input checked="" type="checkbox"/> |         |                  | 215060 |
| MW-9                      |                | 13:12                         |                                |                  | 3   |      |               | <input checked="" type="checkbox"/> |         |                  | 215061 |
| MW-6                      |                | 13:25                         |                                |                  | 3   |      |               | <input checked="" type="checkbox"/> |         |                  | 215062 |
| MW-7                      |                | 14:05                         |                                |                  | 3   |      |               | <input checked="" type="checkbox"/> |         |                  | 215063 |
| WSW-5                     |                | 14:20                         |                                |                  | 3   |      |               | <input checked="" type="checkbox"/> |         |                  | 215064 |
| WSW-8                     |                | 14:40                         |                                |                  | 3   |      |               | <input checked="" type="checkbox"/> |         |                  | 215065 |

Sampler's Signature C. V. P. Matthews Sampled By (Print Name) B. BYRN - C. MATTHEWS Affiliation HART & HICKMAN

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 |
| Relinquished By: (Signature)  | Received By: (Signature)            | Date                          |                |
| Relinquished By: (Signature)  | Received For Prism Laboratories By: | Date                          | 0857           |
| Method of Shipment: <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Hand-delivered <input type="checkbox"/> Prism Field Service <input type="checkbox"/> Other |                                     | COC Group No. <u>G0548623</u> |                |

Additional Comments:

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

|  |  |   |   |  |   |   |   |  |
|--|--|---|---|--|---|---|---|--|
| NPDES: <input type="checkbox"/> NC <input type="checkbox"/> SC | UST: <input type="checkbox"/> NC <input type="checkbox"/> SC | GROUNDWATER: <input checked="" type="checkbox"/> NC <input type="checkbox"/> SC | DRINKING WATER: <input type="checkbox"/> NC <input type="checkbox"/> SC | SOLID WASTE: <input type="checkbox"/> NC <input type="checkbox"/> SC | RCRA: <input type="checkbox"/> NC <input type="checkbox"/> SC | CERCLA: <input type="checkbox"/> NC <input type="checkbox"/> SC | LANDFILL: <input type="checkbox"/> NC <input type="checkbox"/> SC | OTHER: <input type="checkbox"/> NC <input type="checkbox"/> SC |
|--|--|---|---|--|---|---|---|--|

\*CONTAINER TYPE CODES: A - Amber C - Clear G - Glass P - Plastic T1 - Teflon-lined Can VOA - Volatile Organic Analytic (7cm Head Space)

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**Via 2<sup>nd</sup> Day Federal Express**

August 19, 2008

North Carolina Department of Environment  
and Natural Resources  
610 East Center Avenue  
Suite 301  
Mooresville, North Carolina 28115

Attention: Mr. Bruce Parris

Re: Semi-Annual Ground Water Monitoring Report  
Former NC DOT  
Asphalt Testing Site No. 67  
Charlotte, North Carolina  
H&H Job No. DOT-411

Dear Mr. Parris:

On behalf of NC DOT, Hart & Hickman, PC (H&H) is providing the attached Semi-Annual Ground Water Monitoring Report for the above-referenced site. Please contact me if you have any comments or questions.

Very truly yours,

*Hart & Hickman, PC*

Matt Bramblett  
Principal and Project Manager

Attachment

MVB/pes

Cc: Mr. Bill Capehart, Blythe (via certified mail)  
Mr. E. Winters Mabry, MD, Mecklenburg County Health Director (via certified mail)  
Mr. Chris Niver, NC DOT

**RECEIVED**

**AUG 20 2008**

**NCDENR MRO IHSB**

Hart & Hickman, PC  
2923 South Tryon Street  
Suite 100 Charlotte, NC  
28203-5449

704-586-0007 phone  
704-586-0373 fax  
www.harthickman.com



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**Parcel Information**

|                              |                           |               |                             |
|------------------------------|---------------------------|---------------|-----------------------------|
| <b>Parcel ID</b><br>02504221 | <b>Account</b><br>NC CORP | <b>Parent</b> | <b>Previous</b><br>02503109 |
|------------------------------|---------------------------|---------------|-----------------------------|

**Owner(s)**

|  |   |   |
|--|---|---|
| <b>Owner Name</b><br>ROWBOAT COMPANY INC THE | <b>Mailing Address</b><br>858 WILLIAMSON RD | <b>City/State</b><br>MOORESVILLE NC 28117 |
|--|---|---|

**Legal Information**

|                    |                                  |   |                         |   |                        |
|--------------------|----------------------------------|---|-------------------------|---|------------------------|
| <b>Legal</b><br>NA | <b>Municipality</b><br>CHARLOTTE | <b>Annexed</b><br>6/30/2001 12:00:00 AM | <b>Special District</b> | <b>Fire District</b><br>CITY OF CHARLOTTE | <b>Acreage</b><br>3.92 |
|--------------------|----------------------------------|---|-------------------------|---|------------------------|

**Total Parcel Assessment & Exemptions**

|                           |                       |                         |                        |                  |                      |                    |               |
|---------------------------|-----------------------|-------------------------|------------------------|------------------|----------------------|--------------------|---------------|
| <b>Building</b><br>348000 | <b>Land</b><br>290300 | <b>Features</b><br>2600 | <b>Total</b><br>640900 | <b>Exemption</b> | <b>Year Approved</b> | <b>Review Date</b> | <b>Amount</b> |
|---------------------------|-----------------------|-------------------------|------------------------|------------------|----------------------|--------------------|---------------|

**Sales Information**

|                            |                   |               |                |                   |                                |                            |                                |                |
|----------------------------|-------------------|---------------|----------------|-------------------|--------------------------------|----------------------------|--------------------------------|----------------|
| <b>Sale</b><br>Dec 23 1992 | <b>Price</b><br>0 | <b>Stamps</b> | <b>Qualify</b> | <b>V/I</b><br>IMP | <b>DeedBook</b><br>07149 - 409 | <b>Type</b><br>DEED STAMPS | <b>Legal Ref.</b><br>07149-409 | <b>Grantor</b> |
|----------------------------|-------------------|---------------|----------------|-------------------|--------------------------------|----------------------------|--------------------------------|----------------|

**Land Use**

|                    |                           |                   |                             |                             |
|--------------------|---------------------------|-------------------|-----------------------------|-----------------------------|
| <b>Use</b><br>I600 | <b>Units</b><br>170755.20 | <b>Type</b><br>SF | <b>Neighborhood</b><br>IN06 | <b>Assessment</b><br>290300 |
|--------------------|---------------------------|-------------------|-----------------------------|-----------------------------|

**Building Information**

|                  |  |                            |                            |   |                               |                                   |                            |                        |                       |
|------------------|--|----------------------------|----------------------------|---|-------------------------------|-----------------------------------|----------------------------|------------------------|-----------------------|
| <b>Bldg</b><br>1 | <b>Description</b><br>ROW INDUSTRIES Warehouse | <b>Type</b><br>PREFAB WHSE | <b>Year Built</b><br>1981  | <b>Property Location</b><br>11301 REAMES RD CHARLOTTE |                               |                                   |                            |                        |                       |
| <b>Bldg</b><br>1 | <b>Story</b><br>1 STORY                        | <b>Units</b><br>10800      | <b>Total SqFt</b><br>10800 | <b>Heated</b><br>10800                                | <b>Foundation</b><br>SLAB-COM | <b>Ext. Wall</b><br>MODULAR MTL - | <b>Grade</b><br>AVERAGE 06 | <b>Value</b><br>348000 |                       |
| <b>Bldg</b><br>1 | <b>Heat</b><br>AIR-NO-DUCT                     | <b>Fuel</b><br>GAS         | <b>FirePlace</b>           | <b>AC</b><br>AC-NONE                                  | <b>Fixtures</b><br>9          | <b>Bedrooms</b><br>0              | <b>Full Baths</b><br>0     | <b>3/4 Baths</b>       | <b>1/2 Baths</b><br>0 |

**Sub Areas**

|                  |                                     |                     |
|------------------|-------------------------------------|---------------------|
| <b>Bldg</b><br>1 | <b>Description</b><br>OFFICE - GOOD | <b>Size</b><br>4759 |
| 1                | BASE (FIRST FLOOR)                  | 6041                |

**Depreciation**

|                  |                                |                   |                 |                |                 |
|------------------|--------------------------------|-------------------|-----------------|----------------|-----------------|
| <b>Bldg</b><br>1 | <b>Physical</b><br>AV - 31.00% | <b>Functional</b> | <b>Economic</b> | <b>Special</b> | <b>Override</b> |
|------------------|--------------------------------|-------------------|-----------------|----------------|-----------------|

**Special Features & Yard Items**

|                  |                      |                             |                      |                     |                      |
|------------------|----------------------|-----------------------------|----------------------|---------------------|----------------------|
| <b>Bldg</b><br>1 | <b>Built</b><br>1980 | <b>Type</b><br>CH LNK FENCE | <b>Quantity</b><br>1 | <b>Units</b><br>750 | <b>Value</b><br>2600 |
|------------------|----------------------|-----------------------------|----------------------|---------------------|----------------------|

**Value Changes**

|                                   |                         |   |                             |                      |
|-----------------------------------|-------------------------|---|-----------------------------|----------------------|
| <b>Notice Date</b><br>Apr 27 2007 | <b>Tax Year</b><br>2007 | <b>Reason</b><br>Remodeled Improvements and/or New Additi | <b>Changed To</b><br>640900 | <b>Deferred</b><br>0 |
| Mar 21 2003                       | 2003                    | Countywide Revaluation                                    | 614500                      | 0                    |



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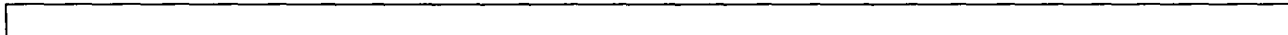
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