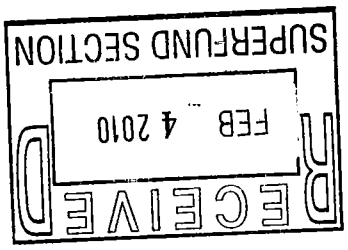
evergreen packaging

**Blue Ridge Paper Products Inc. - Canton Mill**

Certified Mail #7009 0820 0000 5161 7369
Return Receipt Requested

January 29, 2010

Mr. Matt Gamble
North Carolina Department of Environment
and Natural Resources
Solid Waste Section
PO Box 27687
Raleigh, North Carolina 27611-7687




Dear Mr. Gamble:

Please find enclosed information related to the sampling of groundwater and surface water at Blue Ridge Paper Products Landfill Number 6 (Permit No. 44-06). The sampling was conducted between November 16, 2009 and November 24, 2009. The analytical results were received in my office on January 28, 2010.

Enclosed are the following:

- Results of chemical analysis performed on groundwater, surface water, leachate, and Area 6A underflow samples.
- Chain-of custody records.
- A CD with the electronic version of the report.

If you have any questions, please feel free to call.

Sincerely,

James A. Giauque
Waste Compliance & Landfill Supervisor
Blue Ridge Paper Products Inc.
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828-646-2028 Fax 828-646-6892

Paul Dickens
Manager Environmental & Safety
Blue Ridge Paper Products Inc.
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**Enclosures**

file:mwdata012810

ROGERS & CALLCOTT
LABORATORY SERVICES
P.O. Box 5655, Greenville, SC 29606
Phone: (864) 232-1556 - FAX: (864) 232-6140

AN EMPLOYEE-OWNED COMPANY

# Laboratory Services Report

*Client:* Blue Ridge Paper Products
Attention Jim Giaque
175 Main Street
Canton NC 28716

*Date Received:* 11/17/2009
*Time Received:* 07:30
*Date Reported:* 01/19/2010

*South Carolina Laboratory Identification 23105*
*North Carolina Laboratory Certificate Number 27*
*NELAP Laboratory Identification E87822*

| *Sample Number* | *Sample Description* |
|---|---|
| AC68583 | Blue Ridge Paper Co. Pigeon River-Down grab, collected on 11/16/2009 at 11:30 |
| AC68584 | Blue Ridge Paper Co. BB-Up grab, collected on 11/16/2009 at 12:05 |
| AC68585 | Blue Ridge Paper Co. BB-Down grab, collected on 11/16/2009 at 12:30 |
| AC68586 | Blue Ridge Paper Co. BB-3 grab, collected on 11/16/2009 at 12:55 |
| AC68587 | Blue Ridge Paper Co. BB-4 grab, collected on 11/16/2009 at 13:20 |
| AC68588 | Blue Ridge Paper Co. Pigeon River-Up grab, collected on 11/16/2009 at 13:40 |
| AC68589 | Blue Ridge Paper Co. Underflow Drain grab, collected on 11/16/2009 at 15:40 |

***The attached report is for the samples that were received and are referenced above. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements of the NELAC standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty available upon request.***

***We appreciate the opportunity to be of service to you. Please contact us at (864) 232-1556 should you have any questions about this report.***

*Results released by:* _____ *Results reviewed by:* _____
*authorized signature*

*This report may not be reproduced, except in full, without written permission from Rogers & Callcott, Inc.*

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68583 | Blue Ridge Paper Co. Pigeon River-Down grab, collected on 11/16/2009 at 11:30 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 12/16/2009 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 11 pages for TOX from TestAmerica. | | | | | | | |
| pH (Field) | 7.6 | pH units | | 0.1 | 11/16/2009 11:30 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 198 | umhos/cm | | 10 | 11/16/2009 11:30 | BCS | SM 2510B |
| Temperature (Field) | 12.9 | degrees C | | 0.1 | 11/16/2009 11:30 | BCS | SM 2550B |
| Turbidity (Field) | < RDL | NTU | | 5.0 | 11/16/2009 11:30 | BCS | Field Screen |
| Nitrate-Nitrite as N | 0.28 | mg/l | | 0.20 | 12/08/2009 19:02 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/18/2009 11:00 | REH | SM 4500NO2B |
| Total Dissolved Solids | 108 | mg/l | | 25 | 11/18/2009 15:30 | MEA | SM 2540C |
| Total Organic Carbon | 3.8 | mg/l | | 0.5 | 11/30/2009 22:15 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/08/2009 08:30 | LBW | EPA 420.1 |
| Chloride | 14 | mg/L | | 1.0 | 11/30/2009 05:16 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | | 0.10 | 11/30/2009 11:36 | LBW | EPA 300.0 |
| Sulfate | 27 | mg/l | | 1.0 | 11/30/2009 05:16 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Barium | 0.02 | mg/l | | 0.01 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Calcium | 3.6 | mg/l | | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Iron | 0.10 | mg/l | | 0.05 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Magnesium | 0.97 | mg/l | | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Manganese ICPMS | 0.041 | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/07/2009 15:31 | LBW | EPA 245.1 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Potassium | 2.4 | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Sodium | 33 | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/04/2009 15:30 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/17/2009 10:29 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/17/2009 10:29 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68584 | Blue Ridge Paper Co. BB-Up grab, collected on 11/16/2009 at 12:05 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 12/16/2009 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 11 pages for TOX from TestAmerica. | | | | | | | |
| pH (Field) | 6.6 | pH units | | 0.1 | 11/16/2009 12:05 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 64 | umhos/cm | | 10 | 11/16/2009 12:05 | BCS | SM 2510B |
| Temperature (Field) | 14.2 | degrees C | | 0.1 | 11/16/2009 12:05 | BCS | SM 2550B |
| Turbidity (Field) | 6.5 | NTU | | 5.0 | 11/16/2009 12:05 | BCS | Field Screen |
| Nitrate-Nitrite as N | 0.74 | mg/l | | 0.20 | 12/08/2009 19:11 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/18/2009 11:00 | REH | SM 4500NO2B |
| Total Dissolved Solids | 45 | mg/l | | 25 | 11/18/2009 15:30 | MEA | SM 2540C |
| Total Organic Carbon | 1.6 | mg/l | | 0.5 | 11/30/2009 22:37 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/08/2009 08:30 | LBW | EPA 420.1 |
| Chloride | 3.6 | mg/L | | 1.0 | 11/30/2009 05:41 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | | 0.10 | 11/30/2009 05:41 | LBW | EPA 300.0 |
| Sulfate | 5.2 | mg/l | | 1.0 | 11/30/2009 05:41 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Barium | 0.03 | mg/l | | 0.01 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Calcium | 4.3 | mg/l | | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Iron | 0.44 | mg/l | | 0.05 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Magnesium | 1.7 | mg/l | | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Manganese ICPMS | 0.048 | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/07/2009 15:33 | LBW | EPA 245.1 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Potassium | 2.7 | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Sodium | 4.0 | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/04/2009 15:30 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/17/2009 10:29 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/17/2009 10:29 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68585 | Blue Ridge Paper Co. BB-Down grab, collected on 11/16/2009 at 12:30 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 12/16/2009 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 11 pages for TOX from TestAmerica. | | | | | | | |
| pH (Field) | 7.2 | pH units | | 0.1 | 11/16/2009 12:30 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 74 | umhos/cm | | 10 | 11/16/2009 12:30 | BCS | SM 2510B |
| Temperature (Field) | 14.3 | degrees C | | 0.1 | 11/16/2009 12:30 | BCS | SM 2550B |
| Turbidity (Field) | 6.6 | NTU | | 5.0 | 11/16/2009 12:30 | BCS | Field Screen |
| Nitrate-Nitrite as N | 0.73 | mg/l | | 0.20 | 12/08/2009 19:11 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/18/2009 11:00 | REH | SM 4500NO2B |
| Total Dissolved Solids | 54 | mg/l | | 25 | 11/18/2009 15:30 | MEA | SM 2540C |
| Total Organic Carbon | 1.6 | mg/l | | 0.5 | 11/30/2009 22:56 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/08/2009 08:30 | LBW | EPA 420.1 |
| Chloride | 4.5 | mg/L | | 1.0 | 11/30/2009 06:56 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | | 0.10 | 11/30/2009 06:56 | LBW | EPA 300.0 |
| Sulfate | 5.6 | mg/l | | 1.0 | 11/30/2009 06:56 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Barium | 0.03 | mg/l | | 0.01 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Calcium | 4.7 | mg/l | | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Iron | 0.41 | mg/l | | 0.05 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Magnesium | 1.9 | mg/l | | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Manganese ICPMS | 0.061 | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/07/2009 15:41 | LBW | EPA 245.1 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Potassium | 2.8 | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Sodium | 4.8 | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/04/2009 15:30 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/17/2009 10:29 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/17/2009 10:29 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68586 | Blue Ridge Paper Co. BB-3 grab, collected on 11/16/2009 at 12:55 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 12/16/2009 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 11 pages for TOX from TestAmerica. | | | | | | | |
| pH (Field) | 7.4 | pH units | | 0.1 | 11/16/2009 12:55 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 85 | umhos/cm | | 10 | 11/16/2009 12:55 | BCS | SM 2510B |
| Temperature (Field) | 13.7 | degrees C | | 0.1 | 11/16/2009 12:55 | BCS | SM 2550B |
| Turbidity (Field) | 6.6 | NTU | | 5.0 | 11/16/2009 12:55 | BCS | Field Screen |
| Nitrate-Nitrite as N | 0.66 | mg/l | | 0.20 | 12/08/2009 19:11 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/18/2009 11:00 | REH | SM 4500NO2B |
| Total Dissolved Solids | 59 | mg/l | | 25 | 11/18/2009 15:30 | MEA | SM 2540C |
| Total Organic Carbon | 1.7 | mg/l | | 0.5 | 11/30/2009 23:51 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.010 | 12/08/2009 08:30 | LBW | EPA 420.1 |
| Analysis comment for Total Recoverable Phenols: Elevated detection limit - sample was broken during initial distillation and there was limited sample for re-analysis. | | | | | | | |
| Chloride | 4.7 | mg/L | | 1.0 | 11/30/2009 07:21 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | | 0.10 | 11/30/2009 10:33 | LBW | EPA 300.0 |
| Sulfate | 7.7 | mg/l | | 1.0 | 11/30/2009 07:21 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Barium | 0.03 | mg/l | | 0.01 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Calcium | 4.9 | mg/l | | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Iron | 0.44 | mg/l | | 0.05 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Magnesium | 1.9 | mg/l | | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Manganese ICPMS | 0.059 | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/07/2009 15:43 | LBW | EPA 245.1 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Potassium | 2.8 | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Sodium | 6.9 | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/04/2009 15:30 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/17/2009 10:29 | MER | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68586 | Blue Ridge Paper Co. BB-3 grab, collected on 11/16/2009 at 12:55 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Digestion for Metals - ICPMS | Completed | | | | 11/17/2009 10:29 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68587 | Blue Ridge Paper Co. BB-4 grab, collected on 11/16/2009 at 13:20 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Subcontracted Sample Analysis | Completed | | | | 12/16/2009 00:00 | | |

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 11 pages for TOX from TestAmerica.

| | | | | | | |
|---|---|---|---|---|---|---|
| pH (Field) | 7.6 | pH units | 0.1 | 11/16/2009 13:20 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 100 | umhos/cm | 10 | 11/16/2009 13:20 | BCS | SM 2510B |
| Temperature (Field) | 14.6 | degrees C | 0.1 | 11/16/2009 13:20 | BCS | SM 2550B |
| Turbidity (Field) | 8.3 | NTU | 5.0 | 11/16/2009 13:20 | BCS | Field Screen |
| Nitrate-Nitrite as N | 0.69 | mg/l | 0.20 | 12/08/2009 19:20 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | 0.01 | 11/18/2009 11:00 | REH | SM 4500NO2B |
| Total Dissolved Solids | 66 | mg/l | 25 | 11/18/2009 15:30 | MEA | SM 2540C |
| Total Organic Carbon | 1.6 | mg/l | 0.5 | 12/01/2009 00:11 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | 0.005 | 12/08/2009 08:30 | LBW | EPA 420.1 |
| Chloride | 4.9 | mg/L | 1.0 | 11/30/2009 07:46 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | 0.10 | 11/30/2009 10:54 | LBW | EPA 300.0 |
| Sulfate | 11 | mg/l | 1.0 | 11/30/2009 07:46 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Barium | 0.03 | mg/l | 0.01 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | 0.001 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Calcium | 5.3 | mg/l | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | 0.002 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Iron | 0.53 | mg/l | 0.05 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Magnesium | 2.0 | mg/l | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Manganese ICPMS | 0.065 | mg/l | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | 0.0002 | 12/07/2009 15:46 | LBW | EPA 245.1 |
| Nickel ICPMS | < RDL | mg/l | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Potassium | 2.9 | mg/l | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | 0.002 | 11/17/2009 12:37 | MJH | EPA 200.8 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68587 | Blue Ridge Paper Co. BB-4 grab, collected on 11/16/2009 at 13:20 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Sodium | 9.9 | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/04/2009 15:30 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/17/2009 10:29 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/17/2009 10:29 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68588 | Blue Ridge Paper Co. Pigeon River-Up grab, collected on 11/16/2009 at 13:40 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Subcontracted Sample Analysis | Completed | | | | 12/16/2009 00:00 | | |

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 11 pages for TOX from TestAmerica.

| | | | | | | |
|---|---|---|---|---|---|---|
| pH (Field) | 7.7 | pH units | 0.1 | 11/16/2009 13:40 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 195 | umhos/cm | 10 | 11/16/2009 13:40 | BCS | SM 2510B |
| Temperature (Field) | 12.8 | degrees C | 0.1 | 11/16/2009 13:40 | BCS | SM 2550B |
| Turbidity (Field) | < RDL | NTU | 5.0 | 11/16/2009 13:40 | BCS | Field Screen |
| Nitrate-Nitrite as N | 0.33 | mg/l | 0.20 | 12/08/2009 19:30 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | 0.01 | 11/18/2009 11:00 | REH | SM 4500NO2B |
| Total Dissolved Solids | 108 | mg/l | 25 | 11/18/2009 15:30 | MEA | SM 2540C |
| Total Organic Carbon | 3.6 | mg/l | 0.5 | 12/01/2009 00:31 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | 0.005 | 12/08/2009 08:30 | LBW | EPA 420.1 |
| Chloride | 15 | mg/L | 1.0 | 11/30/2009 08:11 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | 0.10 | 11/30/2009 11:57 | LBW | EPA 300.0 |
| Sulfate | 28 | mg/l | 1.0 | 11/30/2009 08:11 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Barium | 0.02 | mg/l | 0.01 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | 0.001 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Calcium | 3.9 | mg/l | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | 0.002 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Iron | 0.11 | mg/l | 0.05 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Magnesium | 1.0 | mg/l | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Manganese ICPMS | 0.048 | mg/l | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | 0.0002 | 12/07/2009 15:48 | LBW | EPA 245.1 |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68588 | Blue Ridge Paper Co. Pigeon River-Up grab, collected on 11/16/2009 at 13:40 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Potassium | 2.4 | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Sodium | 34 | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/04/2009 15:30 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/17/2009 10:29 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/17/2009 10:29 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68589 | Blue Ridge Paper Co. Underflow Drain grab, collected on 11/16/2009 at 15:40 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 12/16/2009 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 11 pages for TOX from TestAmerica. | | | | | | | |
| pH (Field) | 7.1 | pH units | | 0.1 | 11/16/2009 15:40 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 78 | umhos/cm | | 10 | 11/16/2009 15:40 | BCS | SM 2510B |
| Temperature (Field) | 20.4 | degrees C | | 0.1 | 11/16/2009 15:40 | BCS | SM 2550B |
| Turbidity (Field) | < RDL | NTU | | 5.0 | 11/16/2009 15:40 | BCS | Field Screen |
| BOD, 5 Day | < RDL | mg/l | | 3.0 | 11/18/2009 10:05 | MSA | SM 5210B |
| COD | < RDL | mg/l | | 20 | 12/07/2009 15:18 | MEA | EPA 410.4 |
| Nitrate-Nitrite as N | 0.44 | mg/l | | 0.20 | 12/08/2009 19:30 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/18/2009 11:00 | REH | SM 4500NO2B |
| Total Dissolved Solids | 53 | mg/l | | 25 | 11/18/2009 15:30 | MEA | SM 2540C |
| Total Organic Carbon | < RDL | mg/l | | 0.5 | 12/01/2009 00:52 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/08/2009 08:30 | LBW | EPA 420.1 |
| Chloride | 10 | mg/L | | 1.0 | 11/30/2009 08:36 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | | 0.10 | 11/30/2009 11:15 | LBW | EPA 300.0 |
| Sulfate | 3.0 | mg/l | | 1.0 | 11/30/2009 08:36 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Barium | 0.05 | mg/l | | 0.01 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Calcium | 4.7 | mg/l | | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/17/2009 12:37 | MJH | EPA 200.8 |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68589 | Blue Ridge Paper Co. Underflow Drain grab, collected on 11/16/2009 at 15:40 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Iron | < RDL | mg/l | | 0.05 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Lead ICPMS | 2.3 | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Magnesium | < RDL | mg/l | | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Manganese ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/07/2009 15:51 | LBW | EPA 245.1 |
| Nickel ICPMS | 2.1 | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Potassium | < RDL | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Silver ICPMS | 3.3 | mg/l | | 0.002 | 11/17/2009 12:37 | MJH | EPA 200.8 |
| Sodium | 0.08 | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Zinc | Completed | | | 0.02 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/04/2009 15:30 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/17/2009 10:29 | MER | SM 3030C |
| Digestion for Metals - ICPMS | | | | | 11/17/2009 10:29 | MJH | SM 3030C |

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Phone: (864) 232-1556 - FAX: (864) 232-6140

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# *Laboratory Services Report*

*Client:* Blue Ridge Paper Products
Attention Jim Giaque
175 Main Street
Canton NC 28716

*Date Received:* 11/17/2009
*Time Received:* 07:30
*Date Reported:* 01/19/2010

*South Carolina Laboratory Identification 23105*
*North Carolina Laboratory Certificate Number 27*
*NELAP Laboratory Identification E87822*

| *Sample Number* | *Sample Description* |
|---|---|
| AC68590 | Blue Ridge Paper Co. Landfill Leachate grab, collected on 11/16/2009 at 16:15 |

*The attached report is for the samples that were received and are referenced above. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements of the NELAC standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty available upon request.*

*We appreciate the opportunity to be of service to you. Please contact us at (864) 232-1556 should you have any questions about this report.*

*Results released by:* _____ *Results reviewed by:* _____
*authorized signature*

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| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68590 | Blue Ridge Paper Co. Landfill Leachate grab, collected on 11/16/2009 at 16:15 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 12/16/2009 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 11 pages for TOX from TestAmerica. | | | | | | | |
| pH (Field) | 8.0 | pH units | | 0.1 | 11/16/2009 16:15 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 18950 | umhos/cm | | 10 | 11/16/2009 16:15 | BCS | SM 2510B |
| Temperature (Field) | 22.4 | degrees C | | 0.1 | 11/16/2009 16:15 | BCS | SM 2550B |
| Turbidity (Field) | 56 | NTU | | 5.0 | 11/16/2009 16:15 | BCS | Field Screen |
| BOD, 5 Day | 82 | mg/l | | 2.0 | 11/18/2009 10:02 | MSA | SM 5210B |
| COD | 286 | mg/l | | 20 | 12/07/2009 15:18 | MEA | EPA 410.4 |
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.20 | 12/08/2009 20:40 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/18/2009 11:00 | REH | SM 4500NO2B |
| Total Dissolved Solids | 14200 | mg/l | | 25 | 11/18/2009 15:30 | MEA | SM 2540C |
| Total Organic Carbon | 63 | mg/l | | 0.5 | 12/01/2009 01:42 | MSA | SM 5310C |
| Total Phosphorus | 36 | mg/l | | 0.02 | 12/02/2009 16:40 | MEA | SM 4500PE |
| Total Recoverable Phenols | < RDL | mg/l | X | 0.010 | 12/08/2009 08:30 | LBW | EPA 420.1 |
| Chloride | < RDL | mg/L | X | 250 | 11/30/2009 09:01 | LBW | EPA 300.0 |
| Analysis comment for Chloride: Unable to obtain consistent results due to the sample matrix interference. | | | | | | | |
| Fluoride | < RDL | mg/l | X | 5.0 | 11/30/2009 12:39 | LBW | EPA 300.0 |
| Sulfate | 1550 | mg/l | | 1.0 | 11/30/2009 12:18 | LBW | EPA 300.0 |
| Arsenic ICPMS | 0.448 | mg/l | | 0.005 | 11/19/2009 09:01 | MJH | EPA 200.8 |
| Barium | 0.05 | mg/l | | 0.01 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | X | 0.05 | 11/19/2009 09:01 | MJH | EPA 200.8 |
| Calcium | 49 | mg/l | | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | X | 0.10 | 11/19/2009 09:01 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | X | 0.10 | 11/19/2009 09:01 | MJH | EPA 200.8 |
| Iron | 0.27 | mg/l | | 0.05 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | X | 0.10 | 11/19/2009 09:01 | MJH | EPA 200.8 |
| Magnesium | 160 | mg/l | | 0.10 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Manganese ICPMS | 0.358 | mg/l | | 0.005 | 11/19/2009 09:01 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | X | 0.0008 | 12/07/2009 15:53 | LBW | EPA 245.1 |
| Nickel ICPMS | < RDL | mg/l | X | 0.25 | 11/19/2009 09:01 | MJH | EPA 200.8 |
| Potassium | 380 | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | X | 0.25 | 11/19/2009 09:01 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | X | 0.10 | 11/19/2009 09:01 | MJH | EPA 200.8 |
| Sodium | 4700 | mg/l | | 0.50 | 11/17/2009 11:38 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | X | 0.05 | 11/17/2009 11:38 | MER | EPA 200.7 |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68590 | Blue Ridge Paper Co. Landfill Leachate grab, collected on 11/16/2009 at 16:15 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Digestion for Mercury | Completed | | | | 12/04/2009 15:30 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/17/2009 10:29 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/17/2009 10:29 | MJH | SM 3030C |

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Phone: (864) 232-1556 - FAX: (864) 232-6140

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# *Laboratory Services Report*

*Client:* Blue Ridge Paper Products
Attention Jim Giaque
175 Main Street
Canton NC 28716

*Date Received:* 11/20/2009
*Time Received:* 07:28
*Date Reported:* 01/15/2010

*South Carolina Laboratory Identification 23105*
*North Carolina Laboratory Certificate Number 27*
*NELAP Laboratory Identification E87822*

| *Sample Number* | *Sample Description* |
|---|---|
| AC68797 | Blue Ridge Paper Co. MW-17 grab, collected on 11/19/2009 at 11:36 |
| AC68798 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:26 |
| AC68799 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:29 |
| AC68800 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:30 |
| AC68801 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:41 |
| AC68802 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:48 |
| AC68803 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:50 |
| AC68804 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:53 |
| AC68805 | Blue Ridge Paper Co. MW-20 grab, collected on 11/19/2009 at 15:00 |

***The attached report is for the samples that were received and are referenced above. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements of the NELAC standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty available upon request.***

***We appreciate the opportunity to be of service to you. Please contact us at (864) 232-1556 should you have any questions about this report.***

***Results released by:*** Anne Dennis
*authorized signature*

***Results reviewed by:*** _____

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| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68797 | Blue Ridge Paper Co. MW-17 grab, collected on 11/19/2009 at 11:36 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 11 pages for TOX from Test America. | | | | | | | |
| Depth to water | 42.03 | feet | | | 11/19/2009 10:48 | BCS | |
| pH (Field) | 5.9 | pH units | | 0.1 | 11/19/2009 11:35 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 71 | umhos/cm | | 10 | 11/19/2009 11:35 | BCS | SM 2510B |
| Temperature (Field) | 14.5 | degrees C | | 0.1 | 11/19/2009 11:35 | BCS | SM 2550B |
| Turbidity (Field) | < RDL | NTU | | 5.0 | 11/19/2009 11:35 | BCS | Field Screen |
| Nitrate-Nitrite as N | 1.2 | mg/l | | 0.20 | 12/08/2009 19:30 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.02 | 11/20/2009 17:58 | MEA | SM 4500NO2B |
| Total Dissolved Solids | 57 | mg/l | | 25 | 11/24/2009 09:50 | MEA | SM 2540C |
| Total Organic Carbon | < RDL | mg/l | | 0.5 | 12/01/2009 02:06 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/09/2009 08:00 | LBW | EPA 420.1 |
| Chloride | 1.5 | mg/L | | 1.0 | 12/17/2009 16:14 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | | 0.10 | 12/17/2009 16:14 | LBW | EPA 300.0 |
| Sulfate | 8.2 | mg/l | | 1.0 | 12/17/2009 16:14 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Barium | 0.03 | mg/l | | 0.01 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Calcium | 4.3 | mg/l | | 0.10 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Iron | < RDL | mg/l | | 0.05 | 11/20/2009 11:39 | MER | EPA 200.7 |
| Lead ICPMS | 2.7 | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Magnesium | < RDL | mg/l | | 0.10 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Manganese ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/07/2009 16:00 | LBW | EPA 245.1 |
| Nickel ICPMS | 1.8 | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Potassium | < RDL | mg/l | | 0.50 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Silver ICPMS | 3.7 | mg/l | | 0.002 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Sodium | < RDL | mg/l | | 0.50 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Zinc | Completed | | | 0.02 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/04/2009 15:30 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | | | | | 11/20/2009 08:07 | MER | SM 3030C |
| Analysis comment for Digestion for Metals - ICP: Iron digested 11-20-09 at 1058 MER. | | | | | | | |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68797 | Blue Ridge Paper Co. MW-17 grab, collected on 11/19/2009 at 11:36 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Digestion for Metals - ICPMS | Completed | | | | 11/20/2009 08:07 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68798 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:26 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Depth to water | 29.94 | feet | | | 11/19/2009 10:34 | BCS | |
| pH (Field) | 5.9 | pH units | | 0.1 | 11/19/2009 12:25 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 201 | umhos/cm | | 10 | 11/19/2009 12:25 | BCS | SM 2510B |
| Temperature (Field) | 14.9 | degrees C | | 0.1 | 11/19/2009 12:25 | BCS | SM 2550B |
| Turbidity (Field) | 9.8 | NTU | | 5.0 | 11/19/2009 12:25 | BCS | Field Screen |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Barium | 0.14 | mg/l | | 0.01 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Calcium | 20 | mg/l | | 0.10 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Chromium ICPMS | 0.004 | mg/l | | 0.002 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Iron | 0.40 | mg/l | | 0.05 | 11/20/2009 11:39 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Magnesium | 5.2 | mg/l | | 0.10 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Manganese ICPMS | 0.013 | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Potassium | 3.2 | mg/l | | 0.50 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Sodium | 8.7 | mg/l | | 0.50 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Zinc | 0.02 | mg/l | | 0.02 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Digestion for Metals - ICP | Completed | | | | 11/20/2009 08:07 | MER | SM 3030C |
| Analysis comment for Digestion for Metals - ICP: Iron digested 11-20-09 at 1058 MER. | | | | | | | |
| Digestion for Metals - ICPMS | Completed | | | | 11/20/2009 08:07 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68799 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:29 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Mercury | < RDL | mg/l | | 0.0002 | 12/07/2009 16:03 | LBW | EPA 245.1 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68799 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:29 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Digestion for Mercury | Completed | | | | 12/04/2009 15:30 | LBW | EPA 245.1 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68800 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:30 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Nitrite as N | < RDL | mg/l | | 0.02 | 11/20/2009 18:17 | MEA | SM 4500NO2B |
| Total Dissolved Solids | 126 | mg/l | | 25 | 11/24/2009 09:50 | MEA | SM 2540C |
| Chloride | 28 | mg/L | | 1.0 | 12/17/2009 17:55 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | | 0.10 | 12/17/2009 18:37 | LBW | EPA 300.0 |
| Sulfate | < RDL | mg/l | | 1.0 | 12/17/2009 18:37 | LBW | EPA 300.0 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68801 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:41 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/09/2009 08:00 | LBW | EPA 420.1 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68802 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:48 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | < RDL | mg/l | | 0.5 | 12/01/2009 02:23 | MSA | SM 5310C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68803 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:50 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 11 pages for TOX from Test America.

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68804 | Blue Ridge Paper Co. MW-14 grab, collected on 11/19/2009 at 12:53 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite as N | 0.62 | mg/l | | 0.20 | 12/08/2009 19:39 | MEA | SM 4500NO3H |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68805 | Blue Ridge Paper Co. MW-20 grab, collected on 11/19/2009 at 15:00 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 11 pages for TOX from Test America.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Depth to water | 43.62 | feet | | | 11/19/2009 14:28 | BCS | |
| pH (Field) | 6.4 | pH units | | 0.1 | 11/19/2009 14:58 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 91 | umhos/cm | | 10 | 11/19/2009 14:58 | BCS | SM 2510B |
| Temperature (Field) | 14.5 | degrees C | | 0.1 | 11/19/2009 14:58 | BCS | SM 2550B |
| Turbidity (Field) | < RDL | NTU | | 5.0 | 11/19/2009 14:58 | BCS | Field Screen |
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.20 | 12/08/2009 19:49 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.02 | 11/20/2009 17:53 | MEA | SM 4500NO2B |
| Total Dissolved Solids | 79 | mg/l | | 25 | 11/24/2009 09:50 | MEA | SM 2540C |
| Total Organic Carbon | < RDL | mg/l | | 0.5 | 12/01/2009 02:41 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/09/2009 08:00 | LBW | EPA 420.1 |
| Chloride | 3.0 | mg/L | | 1.0 | 12/17/2009 18:58 | LBW | EPA 300.0 |
| Fluoride | 0.11 | mg/l | | 0.10 | 12/17/2009 18:58 | LBW | EPA 300.0 |
| Sulfate | 14 | mg/l | | 1.0 | 12/17/2009 18:16 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Barium | < RDL | mg/l | | 0.01 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Calcium | 4.1 | mg/l | | 0.10 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Iron | 5.5 | mg/l | | 0.05 | 11/20/2009 11:39 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Magnesium | 1.9 | mg/l | | 0.10 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Manganese ICPMS | 0.018 | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/07/2009 16:05 | LBW | EPA 245.1 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Potassium | 2.7 | mg/l | | 0.50 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Sodium | 5.0 | mg/l | | 0.50 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/04/2009 15:30 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/20/2009 08:07 | MER | SM 3030C |

Analysis comment for Digestion for Metals - ICP: Iron digested 11-20-09 at 1058 MER.

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68805 | Blue Ridge Paper Co. MW-20 grab, collected on 11/19/2009 at 15:00 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Digestion for Metals - ICPMS | Completed | | | | 11/20/2009 08:07 | MJH | SM 3030C |

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AN EMPLOYEE-OWNED COMPANY

# *Laboratory Services Report*

*Client:* Blue Ridge Paper Products
Attention Jim Giaque
175 Main Street
Canton NC 28716

*South Carolina Laboratory Identification 23105*
*North Carolina Laboratory Certificate Number 27*
*NELAP Laboratory Identification E87822*

*Date Received:* 11/20/2009
*Time Received:* 07:28
*Date Reported:* 01/15/2010

| *Sample Number* | *Sample Description* |
|---|---|
| AC68806 | Blue Ridge Paper Co. MW-10 grab, collected on 11/19/2009 at 15:38 |
| AC68807 | Blue Ridge Paper Co. MW-11 grab, collected on 11/19/2009 at 16:49 |
| AC68808 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:28 |
| AC68809 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:31 |
| AC68810 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:33 |
| AC68811 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:43 |
| AC68812 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:50 |
| AC68813 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:52 |
| AC68814 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:55 |

***The attached report is for the samples that were received and are referenced above. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements of the NELAC standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty available upon request.***

***We appreciate the opportunity to be of service to you. Please contact us at (864) 232-1556 should you have any questions about this report.***

***Results released by:*** Anne Norris
***authorized signature***

***Results reviewed by:***

*This report may not be reproduced, except in full, without written permission from Rogers & Callcott, Inc.*

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68806 | Blue Ridge Paper Co. MW-10 grab, collected on 11/19/2009 at 15:38 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 11 pages for TOX from Test America. | | | | | | | |
| Depth to water | 37.83 | feet | | | 11/19/2009 15:19 | BCS | |
| pH (Field) | 6.0 | pH units | | 0.1 | 11/19/2009 15:36 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 34 | umhos/cm | | 10 | 11/19/2009 15:36 | BCS | SM 2510B |
| Temperature (Field) | 12.9 | degrees C | | 0.1 | 11/19/2009 15:36 | BCS | SM 2550B |
| Turbidity (Field) | 7.3 | NTU | | 5.0 | 11/19/2009 15:36 | BCS | Field Screen |
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.20 | 12/08/2009 19:49 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.02 | 11/20/2009 17:53 | MEA | SM 4500NO2B |
| Total Dissolved Solids | 33 | mg/l | | 25 | 11/24/2009 09:50 | MEA | SM 2540C |
| Total Organic Carbon | < RDL | mg/l | | 0.5 | 12/01/2009 02:58 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/09/2009 08:00 | LBW | EPA 420.1 |
| Chloride | < RDL | mg/L | | 1.0 | 12/17/2009 17:34 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | | 0.10 | 12/17/2009 17:34 | LBW | EPA 300.0 |
| Sulfate | 1.8 | mg/l | | 1.0 | 12/17/2009 17:34 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Barium | 0.01 | mg/l | | 0.01 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Calcium | 2.2 | mg/l | | 0.10 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Iron | 0.18 | mg/l | | 0.05 | 11/20/2009 11:39 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Magnesium | 1.6 | mg/l | | 0.10 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Manganese ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/07/2009 16:08 | LBW | EPA 245.1 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Potassium | 1.0 | mg/l | | 0.50 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Sodium | 1.6 | mg/l | | 0.50 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/04/2009 15:30 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/20/2009 08:07 | MER | SM 3030C |
| Analysis comment for Digestion for Metals - ICP: Iron digested 11-20-09 at 1058 MER. | | | | | | | |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68806 | Blue Ridge Paper Co. MW-10 grab, collected on 11/19/2009 at 15:38 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Digestion for Metals - ICPMS | Completed | | | | 11/20/2009 08:07 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68807 | Blue Ridge Paper Co. MW-11 grab, collected on 11/19/2009 at 16:49 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 11 pages for TOX from Test America. | | | | | | | |
| Depth to water | 10.77 | feet | | | 11/19/2009 15:46 | BCS | |
| pH (Field) | 5.4 | pH units | | 0.1 | 11/19/2009 16:47 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 55 | umhos/cm | | 10 | 11/19/2009 16:47 | BCS | SM 2510B |
| Temperature (Field) | 13.4 | degrees C | | 0.1 | 11/19/2009 16:47 | BCS | SM 2550B |
| Turbidity (Field) | < RDL | NTU | | 5.0 | 11/19/2009 16:47 | BCS | Field Screen |
| Nitrate-Nitrite as N | 0.21 | mg/l | | 0.20 | 12/08/2009 19:49 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.02 | 11/20/2009 17:58 | MEA | SM 4500NO2B |
| Total Dissolved Solids | < RDL | mg/l | | 25 | 11/24/2009 09:50 | MEA | SM 2540C |
| Total Organic Carbon | < RDL | mg/l | | 0.5 | 12/01/2009 03:15 | MSA | SM 5310C |
| Total Recoverable Phenols | 1.2 | mg/L | | 0.005 | 12/09/2009 08:00 | LBW | EPA 420.1 |
| Chloride | < RDL | mg/l | | 1.0 | 12/17/2009 15:54 | LBW | EPA 300.0 |
| Fluoride | 12 | mg/l | | 0.10 | 12/17/2009 15:54 | LBW | EPA 300.0 |
| Sulfate | < RDL | mg/l | | 1.0 | 12/17/2009 20:02 | LBW | EPA 300.0 |
| Arsenic ICPMS | 0.03 | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Barium | < RDL | mg/l | | 0.01 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Cadmium ICPMS | 2.8 | mg/l | | 0.001 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Calcium | < RDL | mg/l | | 0.10 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Iron | < RDL | mg/l | | 0.05 | 11/20/2009 11:39 | MER | EPA 200.7 |
| Lead ICPMS | 3.2 | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Magnesium | 0.006 | mg/l | | 0.10 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Manganese ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/07/2009 16:10 | LBW | EPA 245.1 |
| Nickel ICPMS | 1.0 | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Potassium | < RDL | mg/l | | 0.50 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Selenium ICPMS | | | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68807 | Blue Ridge Paper Co. MW-11 grab, collected on 11/19/2009 at 16:49 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Sodium | 1.9 | mg/l | | 0.50 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/04/2009 15:30 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/20/2009 08:07 | MER | SM 3030C |
| Analysis comment for Digestion for Metals - ICP: Iron digested 11-20-09 at 1058 MER. | | | | | | | |
| Digestion for Metals - ICPMS | Completed | | | | 11/20/2009 08:07 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68808 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:28 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Depth to water | 30.32 | feet | | | 11/19/2009 13:18 | BCS | |
| pH (Field) | 6.3 | pH units | | 0.1 | 11/19/2009 17:25 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 46 | umhos/cm | | 10 | 11/19/2009 17:25 | BCS | SM 2510B |
| Temperature (Field) | 12.3 | degrees C | | 0.1 | 11/19/2009 17:25 | BCS | SM 2550B |
| Turbidity (Field) | 22 | NTU | | 5.0 | 11/19/2009 17:25 | BCS | Field Screen |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Barium | 0.05 | mg/l | | 0.01 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Calcium | 4.7 | mg/l | | 0.10 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Chromium ICPMS | 0.002 | mg/l | | 0.002 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Iron | 0.92 | mg/l | | 0.05 | 11/20/2009 11:39 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Magnesium | 1.5 | mg/l | | 0.10 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Manganese ICPMS | 0.016 | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Potassium | 1.8 | mg/l | | 0.50 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/20/2009 08:59 | MJH | EPA 200.8 |
| Sodium | 2.9 | mg/l | | 0.50 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/20/2009 09:04 | MER | EPA 200.7 |
| Digestion for Metals - ICP | Completed | | | | 11/20/2009 08:07 | MER | SM 3030C |
| Analysis comment for Digestion for Metals - ICP: Iron digested 11-20-09 at 1058 MER. | | | | | | | |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68808 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:28 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Digestion for Metals - ICPMS | Completed | | | | 11/20/2009 08:07 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68809 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:31 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Mercury | < RDL | mg/l | | 0.0002 | 12/07/2009 16:18 | LBW | EPA 245.1 |
| Digestion for Mercury | Completed | | | | 12/04/2009 15:30 | LBW | EPA 245.1 |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68810 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:33 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Nitrite as N | < RDL | mg/l | | 0.02 | 11/20/2009 17:58 | MEA | SM 4500NO2B |
| Total Dissolved Solids | 46 | mg/l | | 25 | 11/24/2009 09:50 | MEA | SM 2540C |
| Chloride | < RDL | mg/L | | 1.0 | 12/17/2009 17:14 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | | 0.10 | 12/17/2009 17:14 | LBW | EPA 300.0 |
| Sulfate | < RDL | mg/l | | 1.0 | 12/17/2009 17:14 | LBW | EPA 300.0 |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68811 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:43 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/09/2009 08:00 | LBW | EPA 420.1 |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68812 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:50 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Total Organic Carbon | < RDL | mg/l | | 0.5 | 12/01/2009 03:32 | MSA | SM 5310C |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC68813 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:52 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68813 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:52 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 11 pages for TOX from Test America.

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC68814 | Blue Ridge Paper Co. MW-15 grab, collected on 11/19/2009 at 17:55 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite as N | 0.28 | mg/l | | 0.20 | 12/08/2009 19:55 | MEA | SM 4500NO3H |

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LABORATORY SERVICES
P.O. Box 5655, Greenville, SC 29606
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AN EMPLOYEE-OWNED COMPANY

# *Laboratory Services Report*

*Client:* Blue Ridge Paper Products
Attention Jim Giaque
175 Main Street
Canton NC 28716

*South Carolina Laboratory Identification 23105*
*North Carolina Laboratory Certificate Number 27*
*NELAP Laboratory Identification E87822*

*Date Received:* 11/23/2009
*Time Received:* 17:00
*Date Reported:* 01/19/2010

| *Sample Number* | *Sample Description* |
|---|---|
| AC69048 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 12:55 |
| AC69049 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 12:59 |
| AC69050 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 13:01 |
| AC69051 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 13:15 |
| AC69052 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 13:19 |
| AC69053 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 13:29 |
| AC69054 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 13:31 |

***The attached report is for the samples that were received and are referenced above. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements of the NELAC standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty available upon request.***

***We appreciate the opportunity to be of service to you. Please contact us at (864) 232-1556 should you have any questions about this report.***

***Results released by:*** Anne Norris
*authorized signature*

***Results reviewed by:*** V

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| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69048 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 12:55 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Depth to water | 17.93 | feet | | | 11/23/2009 12:22 | JHF | |
| pH (Field) | 6.8 | pH units | | 0.1 | 11/23/2009 12:52 | JHF | SM 4500HB |
| Specific Conductance at 25 C (Field) | 2125 | umhos/cm | | 10 | 11/23/2009 12:52 | JHF | SM 2510B |
| Temperature (Field) | 14.2 | degrees C | | 0.1 | 11/23/2009 12:52 | JHF | SM 2550B |
| Turbidity (Field) | 6.9 | NTU | | 5.0 | 11/23/2009 12:52 | JHF | Field Screen |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Barium | 0.01 | mg/l | | 0.01 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Calcium | 10 | mg/l | | 0.10 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Chromium ICPMS | 0.004 | mg/l | | 0.002 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Iron | 0.29 | mg/l | | 0.05 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Magnesium | 6.7 | mg/l | | 0.10 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Manganese | 1.4 | mg/l | | 0.02 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Potassium | 4.8 | mg/l | | 0.50 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Sodium | 450 | mg/l | | 0.50 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Zinc ICPMS | < RDL | mg/l | | 0.02 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Digestion for Metals - ICP | Completed | | | | 11/24/2009 08:12 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/24/2009 08:12 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69049 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 12:59 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Mercury | < RDL | mg/l | | 0.0002 | 12/16/2009 12:26 | LBW | EPA 245.1 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69050 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 13:01 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/24/2009 15:02 | MEA | SM 4500NO2I |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69050 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 13:01 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 1160 | mg/l | | 25 | 11/24/2009 09:50 | MEA | SM 2540C |
| Chloride | 33 | mg/L | | 1.0 | 12/21/2009 15:19 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | X | 1.0 | 12/19/2009 00:55 | LBW | EPA 300.0 |
| Sulfate | 584 | mg/l | | 1.0 | 12/18/2009 12:59 | LBW | EPA 300.0 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69051 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 13:15 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.20 | 12/17/2009 15:13 | REH | SM 4500NO3H |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69052 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 13:19 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/09/2009 08:00 | LBW | EPA 420.1 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69053 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 13:29 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 2.8 | mg/l | | 0.5 | 12/01/2009 15:37 | MSA | SM 5310C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69054 | Blue Ridge Paper Co. MW-13 grab, collected on 11/23/2009 at 13:31 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America.

ROGERS & CALLCOTT
LABORATORY SERVICES

P.O. Box 5655, Greenville, SC 29606
Phone: (864) 232-1556 - FAX: (864) 232-6140

AN EMPLOYEE-OWNED COMPANY

# *Laboratory Services Report*

*Client:* Blue Ridge Paper Products
Attention Jim Giaque
175 Main Street
Canton NC 28716

*Date Received:* 11/23/2009
*Time Received:* 17:00
*Date Reported:* 01/19/2010

*South Carolina Laboratory Identification 23105*
*North Carolina Laboratory Certificate Number 27*
*NELAP Laboratory Identification E87822*

| *Sample Number* | *Sample Description* |
|---|---|
| AC69055 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:14 |
| AC69056 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:16 |
| AC69057 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:18 |
| AC69058 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:29 |
| AC69059 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:31 |
| AC69060 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:41 |
| AC69061 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:43 |

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***We appreciate the opportunity to be of service to you. Please contact us at (864) 232-1556 should you have any questions about this report.***

*Results released by:* _____ *Results reviewed by:* _____
*authorized signature*

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| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69055 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:14 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Depth to water | 10.20 | feet | | | 11/23/2009 13:50 | JHF | |
| pH (Field) | 6.7 | pH units | | 0.1 | 11/23/2009 14:10 | JHF | SM 4500HB |
| Specific Conductance at 25 C (Field) | 2245 | umhos/cm | | 10 | 11/23/2009 14:10 | JHF | SM 2510B |
| Temperature (Field) | 14.7 | degrees C | | 0.1 | 11/23/2009 14:10 | JHF | SM 2550B |
| Turbidity (Field) | 5.9 | NTU | | 5.0 | 11/23/2009 14:10 | JHF | Field Screen |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Barium | 0.04 | mg/l | | 0.01 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Calcium | 310 | mg/l | | 0.10 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Iron | 23 | mg/l | | 0.05 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Magnesium | 27 | mg/l | | 0.10 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Manganese | 0.78 | mg/l | | 0.02 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Nickel ICPMS | 0.007 | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Potassium | 19 | mg/l | | 0.50 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Sodium | 170 | mg/l | | 0.50 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Zinc ICPMS | < RDL | mg/l | | 0.02 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Digestion for Metals - ICP | Completed | | | | 11/24/2009 08:12 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/24/2009 08:12 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69056 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:16 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Mercury | < RDL | mg/l | | 0.0002 | 12/16/2009 12:34 | LBW | EPA 245.1 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69057 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:18 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/24/2009 15:06 | MEA | SM 4500NO2B |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69057 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:18 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 1800 | mg/l | | 25 | 11/24/2009 09:50 | MEA | SM 2540C |
| Chloride | 80 | mg/L | | 1.0 | 12/21/2009 15:41 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | X | 1.0 | 12/19/2009 01:16 | LBW | EPA 300.0 |
| Sulfate | 857 | mg/l | | 1.0 | 12/18/2009 13:20 | LBW | EPA 300.0 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69058 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:29 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.20 | 12/17/2009 15:20 | REH | SM 4500NO3H |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69059 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:31 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/14/2009 08:30 | LBW | EPA 420.1 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69060 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:41 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 3.6 | mg/l | | 0.5 | 12/01/2009 15:58 | MSA | SM 5310C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69061 | Blue Ridge Paper Co. MW-21 grab, collected on 11/23/2009 at 14:43 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America.

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LABORATORY SERVICES

P.O. Box 5655, Greenville, SC 29606
® Phone: (864) 232-1556 - FAX: (864) 232-6140

AN EMPLOYEE-OWNED COMPANY

# *Laboratory Services Report*

*Client:* Blue Ridge Paper Products
Attention Jim Giaque
175 Main Street
Canton NC 28716

*Date Received:* 11/23/2009
*Time Received:* 17:00
*Date Reported:* 01/15/2010

*South Carolina Laboratory Identification 23105*
*North Carolina Laboratory Certificate Number 27*
*NELAP Laboratory Identification E87822*

| *Sample Number* | *Sample Description* |
|---|---|
| AC69062 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 12:40 |
| AC69063 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 12:46 |
| AC69064 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 12:48 |
| AC69065 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 13:11 |
| AC69066 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 13:24 |
| AC69067 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 13:28 |
| AC69068 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 13:32 |

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*Results released by:* Anne Norris
*authorized signature*

*Results reviewed by:*

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| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69062 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 12:40 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Depth to water | 62.89 | feet | | | 11/23/2009 12:13 | BCS | |
| pH (Field) | 6.7 | pH units | | 0.1 | 11/23/2009 12:39 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 1355 | umhos/cm | | 10 | 11/23/2009 12:39 | BCS | SM 2510B |
| Temperature (Field) | 14.1 | degrees C | | 0.1 | 11/23/2009 12:39 | BCS | SM 2550B |
| Turbidity (Field) | < RDL | NTU | | 5.0 | 11/23/2009 12:39 | BCS | Field Screen |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Barium | 0.19 | mg/l | | 0.01 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Calcium | 270 | mg/l | | 0.10 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Chromium ICPMS | 0.006 | mg/l | | 0.002 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Iron | 4.1 | mg/l | | 0.05 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Magnesium | 37 | mg/l | | 0.10 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Manganese | 4.7 | mg/l | | 0.02 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Nickel ICPMS | 0.007 | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Potassium | 25 | mg/l | | 0.50 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Sodium | 49 | mg/l | | 0.50 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Zinc ICPMS | < RDL | mg/l | | 0.02 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Digestion for Metals - ICP | Completed | | | | 11/24/2009 08:12 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/24/2009 08:12 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69063 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 12:46 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Mercury | < RDL | mg/l | | 0.0002 | 12/16/2009 12:36 | LBW | EPA 245.1 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69064 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 12:48 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/24/2009 15:06 | MEA | SM 4500NO2B |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69064 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 12:48 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 966 | mg/l | | 25 | 11/24/2009 09:50 | MEA | SM 2540C |
| Chloride | 88 | mg/L | | 1.0 | 12/18/2009 13:41 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | X | 0.20 | 12/18/2009 21:03 | LBW | EPA 300.0 |
| Sulfate | 55 | mg/l | | 1.0 | 12/18/2009 13:41 | LBW | EPA 300.0 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69065 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 13:11 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/09/2009 08:00 | LBW | EPA 420.1 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69066 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 13:24 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 15 | mg/l | | 0.5 | 12/01/2009 17:00 | MSA | SM 5310C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69067 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 13:28 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America.

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69068 | Blue Ridge Paper Co. MW-16D grab, collected on 11/23/2009 at 13:32 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.20 | 12/17/2009 16:10 | REH | SM 4500NO3H |

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Phone: (864) 232-1556 - FAX: (864) 232-6140

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# *Laboratory Services Report*

*Client:* Blue Ridge Paper Products
Attention Jim Giaque
175 Main Street
Canton NC 28716

*Date Received:* 11/23/2009
*Time Received:* 17:00
*Date Reported:* 01/15/2010

*South Carolina Laboratory Identification 23105*
*North Carolina Laboratory Certificate Number 27*
*NELAP Laboratory Identification E87822*

| *Sample Number* | *Sample Description* |
|---|---|
| AC69069 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:18 |
| AC69070 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:20 |
| AC69071 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:22 |
| AC69072 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:32 |
| AC69073 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:38 |
| AC69074 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:33 |
| AC69075 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:41 |

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*Results released by:* Anne Norris
*authorized signature*

*Results reviewed by:* L

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| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69069 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:18 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Depth to water | 59.61 | feet | | | 11/23/2009 12:43 | BCS | |
| pH (Field) | 6.5 | pH units | | 0.1 | 11/23/2009 14:15 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 3805 | umhos/cm | | 10 | 11/23/2009 14:15 | BCS | SM 2510B |
| Temperature (Field) | 14.3 | degrees C | | 0.1 | 11/23/2009 14:15 | BCS | SM 2550B |
| Turbidity (Field) | < RDL | NTU | | 5.0 | 11/23/2009 14:15 | BCS | Field Screen |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Barium | 1.1 | mg/l | | 0.01 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Calcium | 160 | mg/l | | 0.10 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Chromium ICPMS | 0.010 | mg/l | | 0.002 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Iron | 7.0 | mg/l | | 0.05 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Magnesium | 68 | mg/l | | 0.10 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Manganese | 15 | mg/l | | 0.02 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Nickel ICPMS | 0.083 | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Potassium | 15 | mg/l | | 0.50 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Sodium | 1000 | mg/l | | 0.50 | 11/24/2009 08:56 | MER | EPA 200.7 |
| Zinc ICPMS | < RDL | mg/l | | 0.02 | 11/24/2009 09:54 | MJH | EPA 200.8 |
| Digestion for Metals - ICP | Completed | | | | 11/24/2009 08:12 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/24/2009 08:12 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69070 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:20 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Mercury | < RDL | mg/l | | 0.0002 | 12/16/2009 12:39 | LBW | EPA 245.1 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69071 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:22 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Nitrite as N | 0.11 | mg/l | | 0.01 | 11/24/2009 15:24 | MEA | SM 4500NO2 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69071 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:22 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 3020 | mg/l | | 25 | 11/24/2009 09:50 | MEA | SM 2540C |
| Chloride | 247 | mg/L | | 1.0 | 12/18/2009 14:44 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | X | 0.20 | 12/18/2009 21:24 | LBW | EPA 300.0 |
| Sulfate | 44 | mg/l | | 1.0 | 12/19/2009 03:01 | LBW | EPA 300.0 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69072 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:32 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Recoverable Phenols | 0.005 | mg/l | | 0.005 | 12/14/2009 08:30 | LBW | EPA 420.1 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69073 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:38 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 110 | mg/l | | 0.5 | 12/01/2009 17:26 | MSA | SM 5310C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69074 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:33 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America.

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69075 | Blue Ridge Paper Co. MW-16S grab, collected on 11/23/2009 at 14:41 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.20 | 12/17/2009 16:17 | REH | SM 4500NO3H |

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P.O. Box 5655, Greenville, SC 29606
Phone: (864) 232-1556 - FAX: (864) 232-6140

AN EMPLOYEE-OWNED COMPANY

# *Laboratory Services Report*

*Client:* Blue Ridge Paper Products
Attention Jim Giaque
175 Main Street
Canton NC 28716

*South Carolina Laboratory Identification 23105*
*North Carolina Laboratory Certificate Number 27*
*NELAP Laboratory Identification E87822*

*Date Received:* 11/24/2009
*Time Received:* 15:45
*Date Reported:* 01/15/2010

| *Sample Number* | *Sample Description* |
|---|---|
| AC69199 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 15:40 |
| AC69200 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 15:43 |
| AC69201 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 15:44 |
| AC69202 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 15:53 |
| AC69203 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 16:00 |
| AC69204 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 16:01 |
| AC69205 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 16:04 |

***The attached report is for the samples that were received and are referenced above. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements of the NELAC standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty available upon request.***

***We appreciate the opportunity to be of service to you. Please contact us at (864) 232-1556 should you have any questions about this report.***

***Results released by:*** Anne Morris
*authorized signature*

***Results reviewed by:*** V

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| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69199 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 15:40 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Depth to water | 77.02 | feet | | | 11/23/2009 15:15 | BCS | |
| pH (Field) | 6.6 | pH units | | 0.1 | 11/23/2009 15:38 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 2055 | umhos/cm | | 10 | 11/23/2009 15:38 | BCS | SM 2510B |
| Temperature (Field) | 14.4 | degrees C | | 0.1 | 11/23/2009 15:38 | BCS | SM 2550B |
| Turbidity (Field) | < RDL | NTU | | 5.0 | 11/23/2009 15:38 | BCS | Field Screen |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Barium | 0.02 | mg/l | | 0.01 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Calcium | 88 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Iron | 32 | mg/l | | 0.05 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Magnesium | 32 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Manganese | 4.9 | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Potassium | 12 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Sodium | 280 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Digestion for Metals - ICP | Completed | | | | 11/25/2009 07:39 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/25/2009 07:39 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69200 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 15:43 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Mercury | < RDL | mg/l | | 0.0002 | 12/16/2009 12:42 | LBW | EPA 245.1 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69201 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 15:44 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/24/2009 16:26 | MEA | SM 4500NO2 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69201 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 15:44 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 1460 | mg/l | | 25 | 11/30/2009 15:45 | MEA | SM 2540C |
| Chloride | 45 | mg/L | | 1.0 | 12/21/2009 16:02 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | X | 1.0 | 12/18/2009 21:45 | LBW | EPA 300.0 |
| Sulfate | 745 | mg/l | | 1.0 | 12/18/2009 15:05 | LBW | EPA 300.0 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69202 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 15:53 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/14/2009 08:30 | LBW | EPA 420.1 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69203 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 16:00 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 4.0 | mg/l | | 0.5 | 12/01/2009 17:49 | MSA | SM 5310C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69204 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 16:01 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America.

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69205 | Blue Ridge Paper Co. MW-18 grab, collected on 11/23/2009 at 16:04 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.20 | 12/11/2009 16:38 | MEA | SM 4500NO3I |

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# *Laboratory Services Report*

*Client:* Blue Ridge Paper Products
Attention Jim Giaque
175 Main Street
Canton NC 28716

*South Carolina Laboratory Identification 23105*
*North Carolina Laboratory Certificate Number 27*
*NELAP Laboratory Identification E87822*

*Date Received:* 11/24/2009
*Time Received:* 15:45
*Date Reported:* 01/19/2010

| *Sample Number* | *Sample Description* |
|---|---|
| AC69206 | Blue Ridge Paper Co. MW-6 grab, collected on 11/23/2009 at 18:30 |
| AC69207 | Blue Ridge Paper Co. MW-8 grab, collected on 11/24/2009 at 08:37 |
| AC69208 | Blue Ridge Paper Co. MW-7A grab, collected on 11/24/2009 at 09:00 |
| AC69209 | Blue Ridge Paper Co. MW-5A grab, collected on 11/24/2009 at 09:17 |
| AC69210 | Blue Ridge Paper Co. MW-4 grab, collected on 11/24/2009 at 09:37 |

***The attached report is for the samples that were received and are referenced above. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements of the NELAC standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty available upon request.***

***We appreciate the opportunity to be of service to you. Please contact us at (864) 232-1556 should you have any questions about this report.***

***Results released by:*** Anne Norris
***authorized signature***

***Results reviewed by:***

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| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC69206 | Blue Ridge Paper Co. MW-6 grab, collected on 11/23/2009 at 18:30 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America. | | | | | | | |
| Depth to water | 13.06 | feet | | | 11/23/2009 17:45 | BCS | |
| pH (Field) | 5.7 | pH units | | 0.1 | 11/23/2009 18:24 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 485 | umhos/cm | | 10 | 11/23/2009 18:24 | BCS | SM 2510B |
| Temperature (Field) | 15.0 | degrees C | | 0.1 | 11/23/2009 18:24 | BCS | SM 2550B |
| Turbidity (Field) | < RDL | NTU | | 5.0 | 11/23/2009 18:24 | BCS | Field Screen |
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.20 | 12/11/2009 18:33 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/24/2009 16:21 | MEA | SM 4500NO2B |
| Total Dissolved Solids | 286 | mg/l | | 25 | 11/30/2009 15:45 | MEA | SM 2540C |
| Total Organic Carbon | 1.1 | mg/l | | 0.5 | 12/01/2009 18:12 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/14/2009 08:30 | LBW | EPA 420.1 |
| Chloride | 80 | mg/L | | 1.0 | 12/18/2009 15:26 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | X | 0.20 | 12/18/2009 22:07 | LBW | EPA 300.0 |
| Sulfate | 24 | mg/l | | 1.0 | 12/19/2009 03:22 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Barium | 0.11 | mg/l | | 0.01 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Calcium | 31 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Chromium ICPMS | 0.003 | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Iron | 0.41 | mg/l | | 0.05 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Magnesium | 20 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Manganese | 4.5 | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/16/2009 12:44 | LBW | EPA 245.1 |
| Nickel ICPMS | 0.015 | mg/l | | 0.005 | 11/30/2009 09:29 | MJH | EPA 200.8 |
| Potassium | 5.6 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Sodium | 20 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/25/2009 07:39 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/25/2009 07:39 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC69206 | Blue Ridge Paper Co. MW-6 grab, collected on 11/23/2009 at 18:30 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Analysis comment for Digestion for Metals - ICPMS: Nickel digested 11-25-09 at 1600 MJH | | | | | | | |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC69207 | Blue Ridge Paper Co. MW-8 grab, collected on 11/24/2009 at 08:37 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America. | | | | | | | |
| Depth to water | 9.94 | feet | | | 11/23/2009 10:50 | BCS | |
| pH (Field) | 6.5 | pH units | | 0.1 | 11/24/2009 08:37 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 79 | umhos/cm | | 10 | 11/24/2009 08:37 | BCS | SM 2510B |
| Temperature (Field) | 14.2 | degrees C | | 0.1 | 11/24/2009 08:37 | BCS | SM 2550B |
| Turbidity (Field) | < RDL | NTU | | 5.0 | 11/24/2009 08:37 | BCS | Field Screen |
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.20 | 12/11/2009 18:33 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/24/2009 16:30 | MEA | SM 4500NO2B |
| Total Dissolved Solids | 46 | mg/l | | 25 | 11/30/2009 15:45 | MEA | SM 2540C |
| Total Organic Carbon | < RDL | mg/l | | 0.5 | 12/01/2009 18:32 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/17/2009 08:00 | LBW | EPA 420.1 |
| Chloride | 1.1 | mg/L | | 1.0 | 12/21/2009 16:23 | LBW | EPA 300.0 |
| Fluoride | 0.15 | mg/l | | 0.10 | 12/19/2009 01:37 | LBW | EPA 300.0 |
| Sulfate | 11 | mg/l | | 1.0 | 12/18/2009 15:47 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Barium | < RDL | mg/l | | 0.01 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Cadmium ICPMS | 4.3 | mg/l | | 0.001 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Calcium | < RDL | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Copper ICPMS | 1.9 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Iron | < RDL | mg/l | | 0.05 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Lead ICPMS | 1.5 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Magnesium | 0.04 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Manganese | < RDL | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/16/2009 12:47 | LBW | EPA 245.1 |
| Nickel ICPMS | 2.7 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Potassium | < RDL | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Selenium ICPMS | | | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69207 | Blue Ridge Paper Co. MW-8 grab, collected on 11/24/2009 at 08:37 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Sodium | 3.2 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/25/2009 07:39 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/25/2009 07:39 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69208 | Blue Ridge Paper Co. MW-7A grab, collected on 11/24/2009 at 09:00 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America. | | | | | 11/23/2009 18:29 | BCS | |
| Depth to water | 9.39 | feet | | 0.1 | 11/24/2009 09:00 | BCS | SM 4500HB |
| pH (Field) | 5.8 | pH units | | 10 | 11/24/2009 09:00 | BCS | SM 2510B |
| Specific Conductance at 25 C (Field) | 306 | umhos/cm | | 0.1 | 11/24/2009 09:00 | BCS | SM 2550B |
| Temperature (Field) | 14.1 | degrees C | | 5.0 | 11/24/2009 09:00 | BCS | Field Screen |
| Turbidity (Field) | < RDL | NTU | | 0.20 | 12/11/2009 18:33 | MEA | SM 4500NO3H |
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.01 | 11/24/2009 16:26 | MEA | SM 4500NO2B |
| Nitrite as N | < RDL | mg/l | | 25 | 11/30/2009 15:45 | MEA | SM 2540C |
| Total Dissolved Solids | 180 | mg/l | | 0.5 | 12/01/2009 18:52 | MSA | SM 5310C |
| Total Organic Carbon | 3.6 | mg/l | | 0.005 | 12/17/2009 08:00 | LBW | EPA 420.1 |
| Total Recoverable Phenols | < RDL | mg/l | | 1.0 | 12/18/2009 16:09 | LBW | EPA 300.0 |
| Chloride | 46 | mg/L | | 0.10 | 12/18/2009 22:28 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | | 1.0 | 12/19/2009 03:43 | LBW | EPA 300.0 |
| Sulfate | 19 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Arsenic ICPMS | < RDL | mg/l | | 0.01 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Barium | 0.07 | mg/l | | 0.001 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Cadmium ICPMS | < RDL | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Calcium | 21 | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Chromium ICPMS | 0.003 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.05 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Iron | 0.21 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Lead ICPMS | < RDL | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Magnesium | 14 | mg/l | | | | | |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69208 | Blue Ridge Paper Co. MW-7A grab, collected on 11/24/2009 at 09:00 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Manganese | 2.7 | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Mercury | 0.0006 | mg/l | | 0.0002 | 12/16/2009 12:54 | LBW | EPA 245.1 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Potassium | 3.9 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Sodium | 8.3 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/25/2009 07:39 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/25/2009 07:39 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected |
|---|---|
| AC69209 | Blue Ridge Paper Co. MW-5A grab, collected on 11/24/2009 at 09:17 |

| Parameter | Result | Unit | Flag | RDL | Date/Time | Analyst | Method |
|---|---|---|---|---|---|---|---|
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Depth to water | 36.34 | feet | | | 11/23/2009 17:37 | BCS | |
| pH (Field) | 5.5 | pH units | | 0.1 | 11/24/2009 09:17 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 388 | umhos/cm | | 10 | 11/24/2009 09:17 | BCS | SM 2510B |
| Temperature (Field) | 15.7 | degrees C | | 0.1 | 11/24/2009 09:17 | BCS | SM 2550B |
| Turbidity (Field) | < RDL | NTU | | 5.0 | 11/24/2009 09:17 | BCS | Field Screen |
| Nitrate-Nitrite as N | 2.2 | mg/l | | 0.20 | 12/11/2009 17:36 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/24/2009 16:26 | MEA | SM 4500NO2B |
| Total Dissolved Solids | 256 | mg/l | | 25 | 11/30/2009 15:45 | MEA | SM 2540C |
| Total Organic Carbon | 2.8 | mg/l | | 0.5 | 12/01/2009 19:50 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/17/2009 08:00 | LBW | EPA 420.1 |
| Chloride | 79 | mg/L | | 1.0 | 12/21/2009 17:26 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | X | 0.50 | 12/19/2009 00:34 | LBW | EPA 300.0 |
| Sulfate | 15 | mg/l | | 1.0 | 12/19/2009 00:34 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Barium | 0.06 | mg/l | | 0.01 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Calcium | 8.3 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC69209 | Blue Ridge Paper Co. MW-5A grab, collected on 11/24/2009 at 09:17 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Chromium ICPMS | 0.003 | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Copper ICPMS | 0.005 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Iron | 0.05 | mg/l | | 0.05 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Magnesium | 7.5 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Manganese | 8.3 | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/16/2009 12:57 | LBW | EPA 245.1 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Potassium | 5.1 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Sodium | 13 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/25/2009 07:39 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/25/2009 07:39 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC69210 | Blue Ridge Paper Co. MW-4 grab, collected on 11/24/2009 at 09:37 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America. | | | | | 11/23/2009 16:49 | BCS | |
| Depth to water | 59.92 | feet | | 0.1 | 11/23/2009 17:29 | BCS | SM 4500HB |
| pH (Field) | 6.4 | pH units | | 10 | 11/23/2009 17:29 | BCS | SM 2510B |
| Specific Conductance at 25 C (Field) | 1446 | umhos/cm | | 0.1 | 11/23/2009 17:29 | BCS | SM 2550B |
| Temperature (Field) | 14.4 | degrees C | | 5.0 | 11/24/2009 09:37 | BCS | Field Screen |
| Turbidity (Field) | 49 | NTU | | 0.20 | 12/11/2009 17:36 | MEA | SM 4500NO |
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.01 | 11/24/2009 16:26 | MEA | SM 4500NO |
| Nitrite as N | < RDL | mg/l | | 25 | 11/30/2009 15:45 | MEA | SM 2540C |
| Total Dissolved Solids | 856 | mg/l | | 0.5 | 12/01/2009 20:15 | MSA | SM 5310C |
| Total Organic Carbon | 7.8 | mg/l | | 0.005 | 12/17/2009 08:00 | LBW | EPA 420.1 |
| Total Recoverable Phenols | < RDL | mg/l | | 1.0 | 12/21/2009 17:47 | LBW | EPA 300.0 |
| Chloride | 83 | mg/L | | 0.50 | 12/18/2009 22:49 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | X | | | | |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC69210 | Blue Ridge Paper Co. MW-4 grab, collected on 11/24/2009 at 09:37 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Sulfate | 246 | mg/l | | 1.0 | 12/18/2009 17:33 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Barium | 0.03 | mg/l | | 0.01 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Calcium | 21 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Chromium ICPMS | 0.004 | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Iron | 63 | mg/l | | 0.05 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Magnesium | 17 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Manganese | 1.3 | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/16/2009 12:59 | LBW | EPA 245.1 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Potassium | 10 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Sodium | 230 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/25/2009 07:39 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/25/2009 07:39 | MJH | SM 3030C |

ROGERS & CALLCOTT
LABORATORY SERVICES
P.O. Box 5655, Greenville, SC 29606
Phone: (864) 232-1556 - FAX: (864) 232-6140

AN EMPLOYEE-OWNED COMPANY

# *Laboratory Services Report*

***Client:*** Blue Ridge Paper Products
Attention Jim Giaque
175 Main Street
Canton NC 28716

*South Carolina Laboratory Identification 23105*
*North Carolina Laboratory Certificate Number 27*
*NELAP Laboratory Identification E87822*

***Date Received:*** 11/24/2009
***Time Received:*** 15:45
***Date Reported:*** 01/19/2010

| *Sample Number* | *Sample Description* |
|---|---|
| AC69211 | Blue Ridge Paper Co. MW-1A grab, collected on 11/24/2009 at 09:53 |
| AC69212 | Blue Ridge Paper Co. MW-9 grab, collected on 11/24/2009 at 10:10 |
| AC69213 | Blue Ridge Paper Co. MW-3A grab, collected on 11/24/2009 at 10:39 |
| AC69214 | Blue Ridge Paper Co. MW-12 grab, collected on 11/24/2009 at 11:47 |
| AC69215 | Blue Ridge Paper Co. MW-2 grab, collected on 11/24/2009 at 12:07 |

***The attached report is for the samples that were received and are referenced above. Rogers and Callcott maintains a formal QA/QC program. Unless otherwise noted, all analyses performed under NELAP certification have complied with all the requirements of the NELAC standard. The analyses met the QA/QC confidence interval for each test method unless otherwise qualified. Estimated uncertainty available upon request.***

***We appreciate the opportunity to be of service to you. Please contact us at (864) 232-1556 should you have any questions about this report.***

***Results released by:*** Anne Norris
*authorized signature*

***Results reviewed by:***

*This report may not be reproduced, except in full, without written permission from Rogers & Callcott, Inc.*

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC69211 | Blue Ridge Paper Co. MW-1A grab, collected on 11/24/2009 at 09:53 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America. | | | | | | | |
| Depth to water | 62.59 | feet | | | 11/23/2009 15:37 | BCS | |
| pH (Field) | 6.3 | pH units | | 0.1 | 11/24/2009 09:53 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 47 | umhos/cm | | 10 | 11/24/2009 09:53 | BCS | SM 2510B |
| Temperature (Field) | 13.6 | degrees C | | 0.1 | 11/24/2009 09:53 | BCS | SM 2550B |
| Turbidity (Field) | 23 | NTU | | 5.0 | 11/24/2009 09:53 | BCS | Field Screen |
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.20 | 12/11/2009 17:36 | MEA | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/24/2009 16:26 | MEA | SM 4500NO2B |
| Total Dissolved Solids | 55 | mg/l | | 25 | 12/01/2009 16:20 | MEA | SM 2540C |
| Total Organic Carbon | 2.7 | mg/l | | 0.5 | 12/01/2009 20:44 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/17/2009 08:00 | LBW | EPA 420.1 |
| Chloride | < RDL | mg/L | | 1.0 | 12/21/2009 18:50 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | | 0.10 | 12/18/2009 17:54 | LBW | EPA 300.0 |
| Sulfate | < RDL | mg/l | | 1.0 | 12/18/2009 17:54 | LBW | EPA 300.0 |
| Arsenic ICPMS | 0.06 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Barium | < RDL | mg/l | | 0.01 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Cadmium ICPMS | 3.0 | mg/l | | 0.001 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Calcium | 0.002 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Chromium ICPMS | 0.007 | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Copper ICPMS | 0.31 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Iron | < RDL | mg/l | | 0.05 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Lead ICPMS | 1.1 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Magnesium | < RDL | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Manganese ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/16/2009 13:02 | LBW | EPA 245.1 |
| Nickel ICPMS | 2.7 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Potassium | < RDL | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Silver ICPMS | 2.1 | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.7 |
| Sodium | < RDL | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Zinc | Completed | | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.8 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/25/2009 07:39 | MER | SM 3030E |
| Digestion for Metals - ICPMS | | | | | 11/25/2009 07:39 | MJH | SM 3030E |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC69212 | Blue Ridge Paper Co. MW-9 grab, collected on 11/24/2009 at 10:10 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America. | | | | | | | |
| Depth to water | 40.81 | feet | | | 11/23/2009 15:59 | BCS | |
| pH (Field) | 6.0 | pH units | | 0.1 | 11/24/2009 10:10 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 36 | umhos/cm | | 10 | 11/24/2009 10:10 | BCS | SM 2510B |
| Temperature (Field) | 13.5 | degrees C | | 0.1 | 11/24/2009 10:10 | BCS | SM 2550B |
| Turbidity (Field) | 7.1 | NTU | | 5.0 | 11/24/2009 10:10 | BCS | Field Screen |
| Nitrate-Nitrite as N | 0.36 | mg/l | | 0.20 | 12/22/2009 15:54 | REH | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/24/2009 16:21 | MEA | SM 4500NO2B |
| Total Dissolved Solids | 54 | mg/l | | 25 | 12/01/2009 16:20 | MEA | SM 2540C |
| Total Organic Carbon | 5.9 | mg/l | | 0.5 | 12/01/2009 21:12 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/17/2009 08:00 | LBW | EPA 420.1 |
| Chloride | < RDL | mg/L | | 1.0 | 12/21/2009 19:53 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | | 0.10 | 12/18/2009 18:57 | LBW | EPA 300.0 |
| Sulfate | 2.4 | mg/l | | 1.0 | 12/18/2009 18:57 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Barium | < RDL | mg/l | | 0.01 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Cadmium ICPMS | 2.1 | mg/l | | 0.001 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Calcium | < RDL | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Iron | < RDL | mg/l | | 0.05 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Lead ICPMS | 0.99 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Magnesium | 0.006 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Manganese ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/16/2009 13:09 | LBW | EPA 245.1 |
| Nickel ICPMS | 2.5 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Potassium | < RDL | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Silver ICPMS | 1.7 | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Sodium | < RDL | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Zinc | Completed | | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/25/2009 07:39 | MER | SM 3030C |
| Digestion for Metals - ICPMS | | | | | 11/25/2009 07:39 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC69213 | Blue Ridge Paper Co. MW-3A grab, collected on 11/24/2009 at 10:39 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America. | | | | | | | |
| Depth to water | 7.31 | feet | | | 11/24/2009 07:34 | BCS | |
| pH (Field) | 6.8 | pH units | | 0.1 | 11/24/2009 10:39 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 903 | umhos/cm | | 10 | 11/24/2009 10:39 | BCS | SM 2510B |
| Temperature (Field) | 14.1 | degrees C | | 0.1 | 11/24/2009 10:39 | BCS | SM 2550B |
| Turbidity (Field) | 8.0 | NTU | | 5.0 | 11/24/2009 10:39 | BCS | Field Screen |
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.20 | 12/17/2009 15:21 | REH | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/24/2009 16:21 | MEA | SM 4500NO2B |
| Total Dissolved Solids | 614 | mg/l | | 25 | 12/01/2009 16:20 | MEA | SM 2540C |
| Total Organic Carbon | 1.1 | mg/l | | 0.5 | 12/01/2009 22:23 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/17/2009 08:00 | LBW | EPA 420.1 |
| Chloride | 33 | mg/L | | 1.0 | 12/21/2009 20:14 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | | 0.10 | 12/18/2009 23:10 | LBW | EPA 300.0 |
| Sulfate | 193 | mg/l | | 1.0 | 12/18/2009 19:18 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Barium | 0.05 | mg/l | | 0.01 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Calcium | 120 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Iron | 43 | mg/l | | 0.05 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Magnesium | 31 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Manganese | 0.56 | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/16/2009 13:12 | LBW | EPA 245.1 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Potassium | 10 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Sodium | 28 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/25/2009 07:39 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/25/2009 07:39 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC69214 | Blue Ridge Paper Co. MW-12 grab, collected on 11/24/2009 at 11:47 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America. | | | | | | | |
| Depth to water | 10.20 | feet | | | 11/24/2009 11:03 | BCS | |
| pH (Field) | 6.0 | pH units | | 0.1 | 11/24/2009 11:44 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 224 | umhos/cm | | 10 | 11/24/2009 11:44 | BCS | SM 2510B |
| Temperature (Field) | 14.6 | degrees C | | 0.1 | 11/24/2009 11:44 | BCS | SM 2550B |
| Turbidity (Field) | < RDL | NTU | | 5.0 | 11/24/2009 11:44 | BCS | Field Screen |
| Nitrate-Nitrite as N | 1.1 | mg/l | | 0.20 | 12/17/2009 15:48 | REH | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/24/2009 16:21 | MEA | SM 4500NO2B |
| Total Dissolved Solids | 170 | mg/l | | 25 | 12/01/2009 16:20 | MEA | SM 2540C |
| Total Organic Carbon | < RDL | mg/l | | 0.5 | 12/01/2009 23:11 | MSA | SM 5310C |
| Total Recoverable Phenols | < RDL | mg/l | | 0.005 | 12/17/2009 08:00 | LBW | EPA 420.1 |
| Chloride | 8.0 | mg/L | | 1.0 | 12/21/2009 20:35 | LBW | EPA 300.0 |
| Fluoride | < RDL | mg/l | X | 0.20 | 12/19/2009 01:58 | LBW | EPA 300.0 |
| Sulfate | 40 | mg/l | | 1.0 | 12/18/2009 19:39 | LBW | EPA 300.0 |
| Arsenic ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Barium | 0.03 | mg/l | | 0.01 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | | 0.001 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Calcium | 12 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Chromium ICPMS | < RDL | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Iron | < RDL | mg/l | | 0.05 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Lead ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Magnesium | 8.0 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Manganese ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Mercury | < RDL | mg/l | | 0.0002 | 12/16/2009 13:14 | LBW | EPA 245.1 |
| Nickel ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Potassium | 3.2 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Sodium | 15 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/25/2009 07:39 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/25/2009 07:39 | MJH | SM 3030C |

| Sample Number | Sample Description, Date and Time Collected | | | | | | |
|---|---|---|---|---|---|---|---|
| AC69215 | Blue Ridge Paper Co. MW-2 grab, collected on 11/24/2009 at 12:07 | | | | | | |
| **Parameter** | **Result** | **Unit** | **Flag** | **RDL** | **Date/Time** | **Analyst** | **Method** |
| Subcontracted Sample Analysis | Completed | | | | 01/06/2010 00:00 | | |
| Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 15 pages for TOX from Test America. | | | | | | | |
| Depth to water | 3.78 | feet | | | 11/23/2009 16:28 | BCS | |
| pH (Field) | 10.1 | pH units | | 0.1 | 11/24/2009 12:07 | BCS | SM 4500HB |
| Specific Conductance at 25 C (Field) | 8600 | umhos/cm | | 10 | 11/24/2009 12:07 | BCS | SM 2510B |
| Temperature (Field) | 14.6 | degrees C | | 0.1 | 11/24/2009 12:07 | BCS | SM 2550B |
| Turbidity (Field) | 11 | NTU | | 5.0 | 11/24/2009 12:07 | BCS | Field Screen |
| Nitrate-Nitrite as N | < RDL | mg/l | | 0.20 | 12/17/2009 15:48 | REH | SM 4500NO3H |
| Nitrite as N | < RDL | mg/l | | 0.01 | 11/24/2009 16:21 | MEA | SM 4500NO2B |
| Total Dissolved Solids | 5770 | mg/l | | 25 | 12/01/2009 16:20 | MEA | SM 2540C |
| Total Organic Carbon | 186 | mg/l | | 0.5 | 12/01/2009 22:45 | MSA | SM 5310C |
| Total Recoverable Phenols | 0.051 | mg/l | | 0.005 | 12/17/2009 08:00 | LBW | EPA 420.1 |
| Chloride | 206 | mg/L | | 1.0 | 12/21/2009 20:56 | LBW | EPA 300.0 |
| Fluoride | 5.1 | mg/l | | 0.10 | 12/18/2009 23:31 | LBW | EPA 300.0 |
| Sulfate | 316 | mg/l | | 1.0 | 12/18/2009 20:00 | LBW | EPA 300.0 |
| Arsenic ICPMS | 0.025 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Barium | < RDL | mg/l | | 0.01 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Cadmium ICPMS | < RDL | mg/l | X | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Calcium | 3.4 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Chromium ICPMS | 0.008 | mg/l | | 0.002 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Copper ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Iron | 2.1 | mg/l | | 0.05 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Lead ICPMS | 0.005 | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Magnesium | 0.14 | mg/l | | 0.10 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Manganese | 0.03 | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Mercury | < RDL | mg/l | X | 0.0008 | 12/16/2009 13:17 | LBW | EPA 245.1 |
| Nickel ICPMS | 0.130 | mg/l | | 0.005 | 11/30/2009 09:29 | MJH | EPA 200.8 |
| Potassium | 65 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Selenium ICPMS | < RDL | mg/l | | 0.005 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Silver ICPMS | < RDL | mg/l | X | 0.004 | 11/25/2009 09:07 | MJH | EPA 200.8 |
| Sodium | 2300 | mg/l | | 0.50 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Zinc | < RDL | mg/l | | 0.02 | 11/25/2009 08:31 | MER | EPA 200.7 |
| Digestion for Mercury | Completed | | | | 12/15/2009 16:00 | LBW | EPA 245.1 |
| Digestion for Metals - ICP | Completed | | | | 11/25/2009 07:39 | MER | SM 3030C |
| Digestion for Metals - ICPMS | Completed | | | | 11/25/2009 07:39 | MJH | SM 3030C |

| *Sample Number* | *Sample Description, Date and Time Collected* |
|---|---|
| AC69215 | Blue Ridge Paper Co. MW-2 grab, collected on 11/24/2009 at 12:07 |

| *Parameter* | *Result* | *Unit* | *Flag* | *RDL* | *Date/Time* | *Analyst* | *Method* |
|---|---|---|---|---|---|---|---|
| Analysis comment for Digestion for Metals - ICPMS: Ni digested 11-25-09 at 1600 | | | | | | | |

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

January 14, 2010 2:15:33PM

Client: Rogers & Callcott Engineers, Inc. (13572)
P.O. Box 5655
Greenville, SC 29606
Attn: Susan Gunter

Work Order: NSK2073
Project Name: TOX, NC
Project Nbr: [none]
P/O Nbr:
Date Received: 11/20/09

| SAMPLE IDENTIFICATION | LAB NUMBER | COLLECTION DATE AND TIME |
|---|---|---|
| AC68583-N Pigeon River-Down | NSK2073-01 | 11/16/09 11:30 |
| AC68584-N BB-Up | NSK2073-02 | 11/16/09 12:05 |
| AC68585-N BB-Down | NSK2073-03 | 11/16/09 12:30 |
| AC68586-N BB-3 | NSK2073-04 | 11/16/09 12:55 |
| AC68587-N BB-4 | NSK2073-05 | 11/16/09 13:20 |
| AC68588-N Pigeon-River Up | NSK2073-06 | 11/16/09 13:40 |
| AC68589-N Under Flow Drain | NSK2073-07 | 11/16/09 15:40 |

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Additional Laboratory Comments:
REVISED REPORT: 01/14/10 KAH - To change the location state to North Carolina and reference our North Carolina Certification info. This report replaces the one generated on 12/10/09 @ 13:11.
North Carolina Certification Number: 387

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

Ken A. Hayes

Senior Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2073 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## ANALYTICAL REPORT

| Analyte | Result | Flag | Units | MRL | Dilution Factor | Analysis Date/Time | Method | Batch |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: NSK2073-01 (AC68583-N Pigeon River-Down - Water) Sampled: 11/16/09 11:30** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | **0.0633** | | mg/L | 0.0300 | 1 | 12/01/09 09:31 | SW846 9020B | 9113963 |
| **Sample ID: NSK2073-02 (AC68584-N BB-Up - Water) Sampled: 11/16/09 12:05** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/01/09 09:31 | SW846 9020B | 9113963 |
| **Sample ID: NSK2073-03 (AC68585-N BB-Down - Water) Sampled: 11/16/09 12:30** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/01/09 09:31 | SW846 9020B | 9113963 |
| **Sample ID: NSK2073-04 (AC68586-N BB-3 - Water) Sampled: 11/16/09 12:55** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/01/09 09:31 | SW846 9020B | 9113963 |
| **Sample ID: NSK2073-05 (AC68587-N BB-4 - Water) Sampled: 11/16/09 13:20** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/01/09 09:31 | SW846 9020B | 9113963 |
| **Sample ID: NSK2073-06 (AC68588-N Pigeon-River Up - Water) Sampled: 11/16/09 13:40** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | **0.0585** | | mg/L | 0.0300 | 1 | 12/01/09 09:31 | SW846 9020B | 9113963 |
| **Sample ID: NSK2073-07 (AC68589-N Under Flow Drain - Water) Sampled: 11/16/09 15:40** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/01/09 09:31 | SW846 9020B | 9113963 |

TestAmerica
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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2073 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## PROJECT QUALITY CONTROL DATA
### Blank

| Analyte | Blank Value | Q | Units | Q.C. Batch | Lab Number | Analyzed Date/Time |
|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | |
| **9113963-BLK1** | | | | | | |
| Total Organic Halides | <0.0270 | | mg/L | 9113963 | 9113963-BLK1 | 12/01/09 09:31 |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2073 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## PROJECT QUALITY CONTROL DATA
## LCS

| Analyte | Known Val. | Analyzed Val | Q | Units | % Rec. | Target Range | Batch | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | |
| **9113963-BS1** | | | | | | | | |
| Total Organic Halides | 0.250 | 0.250 | | mg/L | 100% | 90 - 120 | 9113963 | 12/01/09 09:31 |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2073 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## PROJECT QUALITY CONTROL DATA
### LCS Dup

| Analyte | Orig. Val. | Duplicate | Q | Units | Spike Conc | % Rec. | Target Range | RPD | Limit | Batch | Sample Duplicated | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | |
| **9113963-BSD1** | | | | | | | | | | | | |
| Total Organic Halides | | 0.243 | | mg/L | 0.250 | 97% | 90 - 120 | 3 | 40 | 9113963 | | 12/01/09 09:31 |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2073 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## PROJECT QUALITY CONTROL DATA
### Matrix Spike

| Analyte | Orig. Val. | MS Val | Q | Units | Spike Conc | % Rec. | Target Range | Batch | Sample Spiked | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | |
| **9113963-MS1** | | | | | | | | | | |
| Total Organic Halides | ND | 0.133 | M7 | mg/L | 0.100 | 133% | 70 - 130 | 9113963 | NSK2186-04 | 12/01/09 09:31 |

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2073 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## PROJECT QUALITY CONTROL DATA
### Matrix Spike Dup

| Analyte | Orig. Val. | Duplicate | Q | Units | Spike Conc | % Rec. | Target Range | RPD | Limit | Batch | Sample Duplicated | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | |
| **9113963-MSD1** | | | | | | | | | | | | |
| Total Organic Halides | ND | 0.0942 | | mg/L | 0.100 | 94% | 70 - 130 | 34 | 40 | 9113963 | NSK2186-04 | 12/01/09 09:31 |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2073 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## CERTIFICATION SUMMARY

**TestAmerica Nashville**

| Method | Matrix | AIHA | Nelac | North Carolina |
|---|---|---|---|---|
| SW846 9020B | Water | N/A | X | X |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2073 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## DATA QUALIFIERS AND DEFINITIONS

**M7** The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).

**ND** Not detected at the reporting limit (or method detection limit if shown)

## METHOD MODIFICATION NOTES

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

# COOLER RECE

NSK2073

Cooler Received/Opened On 11/20/2009 @ 0815

1. Tracking # 5572 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID Raynger

2. Temperature of rep. sample or temp blank when opened: 2.8 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where: NA

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES..NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO, Was a PIPE generated? YES...NO..#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

# ROGERS & CALLCOTT LABORATORY SERVICES

P.O. Box 5655, Greenville, SC 29606
Phone (864) 232-1556 Fax (864) 232-6140
Shipping Address: 426 Fairforest Way
Greenville, SC 29607

## CHAIN OF CUSTODY RECORD

PAGE ____ OF ____

NSK2073
12/08/09 23:59

Client Name: ROGERS + CALLCOTT

Address: _____

Report To: SUSAN HUNTER

Telephone No. _____ FAX No. _____

PO No. _____ Project No. _____

| Rogers & Callcott Lab No. | Yr/Date | Time | Sample Description | Total Number of Containers | PARAMETERS: Tox | Filtered (Yes/No) | Cooled (Yes/No) | Container Type (P/G) | Container Volume | Sample Type (Grab/Composite) | Sample Source (WW, GW, DW, Other) | Sample Source Chlorinated (Yes/No) | Lab Receipt Cl2 Check | Lab Receipt pH Check | Preserved (Code) | COMMENTS: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | B | N | Y | G | 500 mL | G | SW | N | | | | |
| 685583-N | 11/16 | 1130 | Pigeon River - Down | 1 | 1 | | | | | | | | | | | SUBCONTRACT TO TESTAMERICA |
| 685584-N | | 1205 | BB - Up | 1 | 1 | | | | | | | | | | | 2 |
| 685585-N | | 1230 | BB - Down | 1 | 1 | | | | | | | | | | | 3 |
| 685586-N | | 1255 | BB-3 | 1 | 1 | | | | | | | | | | | 4 |
| 685587-N | | 1320 | BB-4 | 1 | 1 | | | | | | | | | | | 5 |
| 685588-N | | 1340 | Pigeon- River Up | 1 | 1 | | | | | | | | | | | 6 |
| 685589-N | ↓ | 1540 | Underflow Drain | 1 | 1 | | | | | | | | | | | 7 |

Preserved (Code): A–None, B–$HNO_3$, C–$H_2SO_4$, D–NaOH, E–HCL, F–$Na_2S_2O_3$, G–Boric Acid, H–Ascorbic Acid, I– ____

| SAMPLER Relinquished by (Sig.) | Date/Time | Received by (Sig.) | Date/Time | KNOWN HAZARDS ASSOCIATED WITH SAMPLES |
|---|---|---|---|---|
| ① | 11.19.09 1600 | ② Shipper Name & # | | |
| Relinquished by (Sig.) ③ | Date/Time | Received by (Sig.) ④ Shipper Name & # | Date/Time | |
| Relinquished by (Sig.) ⑤ | Date/Time | Received by (Sig.) ⑥ Shipper Name & # | Date/Time 11/20/09 0810 | Temperature of blank or representative sample: At time of collection ____ °C; At time of lab receipt ____ °C |
| Seal # at'chd by ○ Recvd. Intact by ○ | | Seal # at'chd by ○ Recvd. Intact by ○ | | |

Form Revised July 2008

R/C COC FORM

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

January 14, 2010 2:13:49PM

Client: Rogers & Callcott Engineers, Inc. (13572)
P.O. Box 5655
Greenville, SC 29606
Attn: Susan Gunter

Work Order: NSK2072
Project Name: TOX, NC
Project Nbr: [none]
P/O Nbr:
Date Received: 11/20/09

| SAMPLE IDENTIFICATION | LAB NUMBER | COLLECTION DATE AND TIME |
|---|---|---|
| AC68590-N Landfill Leachate | NSK2072-01 | 11/16/09 16:15 |

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

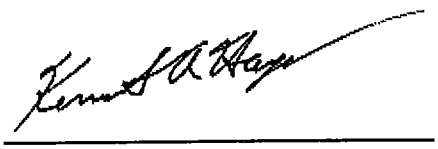
This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Additional Laboratory Comments:
REVISED REPORT: 01/14/10 KAH - To change the location state to North Carolina and reference our North Carolina Certification info. This report replaces the one generated on 12/10/09 @ 13:04.
North Carolina Certification Number: 387

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:



Ken A. Hayes

Senior Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2072 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## ANALYTICAL REPORT

| Analyte | Result | Flag | Units | MRL | Dilution Factor | Analysis Date/Time | Method | Batch |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: NSK2072-01 (AC68590-N Landfill Leachate - Water) Sampled: 11/16/09 16:15** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | 0.449 | | mg/L | 0.300 | 1 | 12/01/09 09:31 | SW846 9020B | 9113963 |

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2072 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## PROJECT QUALITY CONTROL DATA
### Blank

| Analyte | Blank Value | Q | Units | Q.C. Batch | Lab Number | Analyzed Date/Time |
|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | |
| **9113963-BLK1** | | | | | | |
| Total Organic Halides | <0.0270 | | mg/L | 9113963 | 9113963-BLK1 | 12/01/09 09:31 |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2072 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## PROJECT QUALITY CONTROL DATA
## LCS

| Analyte | Known Val. | Analyzed Val | Q | Units | % Rec. | Target Range | Batch | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | |
| **9113963-BS1** | | | | | | | | |
| Total Organic Halides | 0.250 | 0.250 | | mg/L | 100% | 90 - 120 | 9113963 | 12/01/09 09:31 |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2072 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## PROJECT QUALITY CONTROL DATA
### LCS Dup

| Analyte | Orig. Val. | Duplicate | Q | Units | Spike Conc | % Rec. | Target Range | RPD | Limit | Batch | Sample Duplicated | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | |
| **9113963-BSD1** | | | | | | | | | | | | |
| Total Organic Halides | | 0.243 | | mg/L | 0.250 | 97% | 90 - 120 | 3 | 40 | 9113963 | | 12/01/09 09:31 |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2072 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## PROJECT QUALITY CONTROL DATA
### Matrix Spike

| Analyte | Orig. Val. | MS Val | Q | Units | Spike Conc | % Rec. | Target Range | Batch | Sample Spiked | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | |
| **9113963-MS1** | | | | | | | | | | |
| Total Organic Halides | ND | 0.133 | M7 | mg/L | 0.100 | 133% | 70 - 130 | 9113963 | NSK2186-04 | 12/01/09 09:31 |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2072 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## PROJECT QUALITY CONTROL DATA

### Matrix Spike Dup

| Analyte | Orig. Val. | Duplicate | Q | Units | Spike Conc | % Rec. | Target Range | RPD | Limit | Batch | Sample Duplicated | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | |
| **9113963-MSD1** | | | | | | | | | | | | |
| Total Organic Halides | ND | 0.0942 | | mg/L | 0.100 | 94% | 70 - 130 | 34 | 40 | 9113963 | NSK2186-04 | 12/01/09 09:31 |

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2072 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## CERTIFICATION SUMMARY

**TestAmerica Nashville**

| Method | Matrix | AIHA | Nelac | North Carolina |
|---|---|---|---|---|
| SW846 9020B | Water | N/A | X | X |

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2072 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received | 11/20/09 08:15 |

## DATA QUALIFIERS AND DEFINITIONS

**M7** The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).

**ND** Not detected at the reporting limit (or method detection limit if shown)

## METHOD MODIFICATION NOTES

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

# COOLER RECE

NSK2072

Cooler Received/Opened On 11/20/2009 @ 0815

1. Tracking # 5572 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID Raynger

2. Temperature of rep. sample or temp blank when opened: 2.8 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...(NA)

4. Were custody seals on outside of cooler? YES...(NO)...NA

If yes, how many and where: N/A

5. Were the seals intact, signed, and dated correctly? YES...NO...(NA)

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) VJ

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? YES...(NO)...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...NO...(NA) If multiple coolers, sequence # N/A

I certify that I unloaded the cooler and answered questions 7-14 (intial) A

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)...NO...NA pH=2

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...(NO)...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) VJ

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) A

I certify that I attached a label with the unique LIMS number to each container (intial)

21. Were there Non-Conformance issues at login? (YES)...NO Was a PIPE generated? (YES)...NO...# 55468

BIS = Broken in shipment
Cooler Receipt Form.doc

# ROGERS & CALLCOTT LABORATORY SERVICES

P.O. Box 5655, Greenville. SC 29606
Phone (864) 232-1556 Fax (864) 232-6140
Shipping Address: 426 Fairforest Way
Greenville, SC 29607

## CHAIN OF CUSTODY RECORD

PAGE ____ OF ____

Client Name ROGERS & CALLCOTT

Address _____

Report To: SUSAN GUNTER

Telephone No. _____ FAX No. _____

PO No. _____ Project No. _____

NSK2072
12/07/09 23:59

| Rogers & Callcott Lab No. | Yr. 09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS: TOX | Preserved (Code) | COMMENTS: |
|---|---|---|---|---|---|---|---|
| AC68510-N | 11.16 | 1615 | Landfill Leachate | 1 | 1 | B | SUBCONTRACT TO TEST AMERICA |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Filtered (Yes/No): N
Cooled (Yes/No): Y
Container Type (P/G): P
Container Volume: 250 mL
Sample Type (Grab/Composite): G
Sample Source (WW, GW, DW, Other): SW
Sample Source Chlorinated (Yes/No): N
Lab Receipt Cl, Check
Lab Receipt pH Check

A-None D-NaOH G-Boric Acid
B-$HNO_3$ E-HCL H-Ascorbic Acid
C-$H_2SO_4$ F-$Na_2S_2O_3$ I- ____

| | Date/Time | | Date/Time | |
|---|---|---|---|---|
| SAMPLER Relinquished by (Sig.) ① | 11.19.09 1000 | Received by (Sig.) ② Shipper Name & # | | KNOWN HAZARDS ASSOCIATED WITH SAMPLES |
| Relinquished by (Sig.) ③ | | Received by (Sig.) ④ Shipper Name & # | | |
| Relinquished by (Sig.) ⑤ | | Received by (Sig.) ⑥ Shipper Name & # | 11/20/09 0815 | Temperature of blank or representative sample: At time of collection ____ °C; At time of lab receipt ____ °C |

Seal # at'chd by ○ Recvd. Intact by ○ Seal # at'chd by ○ Recvd. Intact by ○

Form Revised July 2008

R/C COC FORM

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

January 06, 2010 11:31:52AM

Client: Rogers & Callcott Engineers, Inc. (13572)
P.O. Box 5655
Greenville, SC 29606
Attn: Susan Gunter

Work Order: NSK2186
Project Name: TOX, NC
Project Nbr: [none]
P/O Nbr:
Date Received: 11/21/09

| SAMPLE IDENTIFICATION | LAB NUMBER | COLLECTION DATE AND TIME |
|---|---|---|
| AC68797-N MW-17 | NSK2186-01 | 11/19/09 11:36 |
| AC68803-KW2 MW-14 | NSK2186-02 | 11/19/09 12:50 |
| AC68805-N MW-20 | NSK2186-03 | 11/19/09 15:00 |
| AC68806-N MW-10 | NSK2186-04 | 11/19/09 15:38 |
| AC68807-N MW-11 | NSK2186-05 | 11/19/09 16:49 |
| AC68813 MW-15 | NSK2186-06 | 11/19/09 17:52 |

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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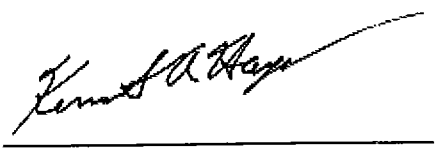
Additional Laboratory Comments:
REVISED REPORT: 01/06/10 KAH - To reference North Carolina Certification. This report replaces the one generated on 12/10/09 @ 13:14.
North Carolina Certification Number: 387

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:



Ken A. Hayes

Senior Project Manager

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2186 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 11/21/09 08:45 |

## ANALYTICAL REPORT

| Analyte | Result | Flag | Units | MRL | Dilution Factor | Analysis Date/Time | Method | Batch |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: NSK2186-01 (AC68797-N MW-17 - Water) Sampled: 11/19/09 11:36** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/01/09 09:31 | SW846 9020B | 9113963 |
| **Sample ID: NSK2186-02 (AC68803-KW2 MW-14 - Water) Sampled: 11/19/09 12:50** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/01/09 09:31 | SW846 9020B | 9113963 |
| **Sample ID: NSK2186-03 (AC68805-N MW-20 - Water) Sampled: 11/19/09 15:00** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/01/09 09:31 | SW846 9020B | 9113963 |
| **Sample ID: NSK2186-04 (AC68806-N MW-10 - Water) Sampled: 11/19/09 15:38** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/01/09 09:31 | SW846 9020B | 9113963 |
| **Sample ID: NSK2186-05 (AC68807-N MW-11 - Water) Sampled: 11/19/09 16:49** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/01/09 09:31 | SW846 9020B | 9113963 |
| **Sample ID: NSK2186-06 (AC68813 MW-15 - Water) Sampled: 11/19/09 17:52** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/01/09 09:31 | SW846 9020B | 9113963 |

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2186 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 11/21/09 08:45 |

## PROJECT QUALITY CONTROL DATA
### Blank

| Analyte | Blank Value | Q | Units | Q.C. Batch | Lab Number | Analyzed Date/Time |
|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | |
| **9113963-BLK1** | | | | | | |
| Total Organic Halides | <0.0270 | | mg/L | 9113963 | 9113963-BLK1 | 12/01/09 09:31 |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2186 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 11/21/09 08:45 |

## PROJECT QUALITY CONTROL DATA
## LCS

| Analyte | Known Val. | Analyzed Val | Q | Units | % Rec. | Target Range | Batch | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | |
| **9113963-BS1** | | | | | | | | |
| Total Organic Halides | 0.250 | 0.250 | | mg/L | 100% | 90 - 120 | 9113963 | 12/01/09 09:31 |

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THE LEADER IN ENVIRONMENTAL TESTING
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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2186 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 11/21/09 08:45 |

## PROJECT QUALITY CONTROL DATA

### LCS Dup

| Analyte | Orig. Val. | Duplicate | Q | Units | Spike Conc | % Rec. | Target Range | RPD | Limit | Batch | Sample Duplicated | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | |
| **9113963-BSD1** | | | | | | | | | | | | |
| Total Organic Halides | | 0.243 | | mg/L | 0.250 | 97% | 90 - 120 | 3 | 40 | 9113963 | | 12/01/09 09:31 |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2186 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 11/21/09 08:45 |

## PROJECT QUALITY CONTROL DATA
### Matrix Spike

| Analyte | Orig. Val. | MS Val | Q | Units | Spike Conc | % Rec. | Target Range | Batch | Sample Spiked | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | |
| **9113963-MS1** | | | | | | | | | | |
| Total Organic Halides | ND | 0.133 | M7 | mg/L | 0.100 | 133% | 70 - 130 | 9113963 | NSK2186-04 | 12/01/09 09:31 |

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2186 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 11/21/09 08:45 |

## PROJECT QUALITY CONTROL DATA

### Matrix Spike Dup

| Analyte | Orig. Val. | Duplicate | Q | Units | Spike Conc | % Rec. | Target Range | RPD | Limit | Batch | Sample Duplicated | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | |
| **9113963-MSD1** | | | | | | | | | | | | |
| Total Organic Halides | ND | 0.0942 | | mg/L | 0.100 | 94% | 70 - 130 | 34 | 40 | 9113963 | NSK2186-04 | 12/01/09 09:31 |

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2186 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 11/21/09 08:45 |

## CERTIFICATION SUMMARY

**TestAmerica Nashville**

| Method | Matrix | AIHA | Nelac | North Carolina |
|---|---|---|---|---|
| SW846 9020B | Water | N/A | X | X |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSK2186 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 11/21/09 08:45 |

## DATA QUALIFIERS AND DEFINITIONS

**M7** The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).

**ND** Not detected at the reporting limit (or method detection limit if shown)

## METHOD MODIFICATION NOTES

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

# COOLER RI

NSK2186

Cooler Received/Opened On 11/21/2009 @ 0845

1. Tracking # 0135 (last 4 digits, FedE:

Courier: FedEx IR Gun ID 97460373

2. Temperature of rep. sample or temp blank when opened: 0.1 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..(NA)

4. Were custody seals on outside of cooler? YES...(NO)...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...(NA)

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? YES..(NO)..NA

b. Was there any observable headspace present in any VOA vial? YES...(NO)..NA

14. Was there a Trip Blank in this cooler? YES...NO..(NA) If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES...(NO)..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES..(NO) Was a PIPE generated? YES..NO..#_____

ROGERS & CALLCOTT
LABORATORY SERVICES
P.O. Box 5655, Greenville, SC 29606
Phone (864) 232-1556 Fax (864) 232-6140
Shipping Address: 426 Fairforest Way
Greenville, SC 29607

# CHAIN OF CUSTODY RECORD

PAGE ____ OF ____

Client Name: ROGERS + CALLCOTT

Address:

Report To: SUSAN GUNTER

Telephone No.: FAX No.:

PO No.: Project No.:

NSK2186
12/23/09 23:59

| Rogers & Callcott Lab No. | Yr 09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS: TOX | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Filtered (Yes/No) | | | | | N | | | | | | | | |
| Cooled (Yes/No) | | | | | Y | | | | | | | | |
| Container Type (P/G) | | | | | P | | | | | | | | |
| Container Volume | | | | | G | | | | | | | | |
| Sample Type (Grab/Composite) | | | | | G | | | | | | | | |
| Sample Source (WW, GW, DW, Other) | | | | | GW | | | | | | | | |
| Sample Source Chlorinated (Yes/No) | | | | | N | | | | | | | | |
| Lab Receipt $Cl_2$ Check | | | | | | | | | | | | | |
| Lab Receipt pH Check | | | | | | | | | | | | | |
| Preserved (Code) | | | | | B | | | | | | | | |
| AC 68797-N | 11.19 | 1136 | MW-17 | 1 | 1 | | | | | | | 01 | SUBCONTRACTED TO TEST |
| 68803-N KW 11-20 | | 1250 | MW-14 | 1 | 1 | | | | | | | 2 | AMERICA |
| 68805-N | | 1500 | MW-20 | 1 | 1 | | | | | | | 3 | |
| 68806-N | | 1538 | MW-10 | 1 | 1 | | | | | | | 4 | |
| 68807-N | | 1649 | MW-11 | 1 | 1 | | | | | | | 5 | |
| 68813 | | 1752 | MW-15 | 1 | 1 | | | | | | | 6 | |

KWZ 11-20

Preserved (Code): A–None, B–$HNO_3$, C–$H_2SO_4$, D–NaOH, E–HCL, F–$Na_2S_2O_3$, G–Boric Acid, H–Ascorbic Acid, I– ____

COMMENTS:

| SAMPLER Relinquished by (Sig.) | Date/Time | Received by (Sig.) / Shipper Name & # | Date/Time |
|---|---|---|---|
| ① [signature] | 11.20.09 / 1600 | ② [signature] | 11/21/09 / 5:45 |
| Relinquished by (Sig.) ③ | Date/Time | Received by (Sig.) ④ / Shipper Name & # | Date/Time |
| Relinquished by (Sig.) ⑤ | Date/Time | Received by (Sig.) ⑥ / Shipper Name & # | Date/Time |

Seal # at'chd by ◯ Recvd. Intact by ◯ Seal # at'chd by ◯ Recvd. Intact by ◯

KNOWN HAZARDS ASSOCIATED WITH SAMPLES

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt ____ °C

Form Revised July 2008

R/C COC FORM

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

January 06, 2010 11:38:33AM

Client: Rogers & Callcott Engineers, Inc. (13572)
P.O. Box 5655
Greenville, SC 29606
Attn: Susan Gunter

Work Order: NSL0125
Project Name: TOX, NC
Project Nbr: [none]
P/O Nbr:
Date Received: 12/01/09

| SAMPLE IDENTIFICATION | LAB NUMBER | COLLECTION DATE AND TIME |
|---|---|---|
| AC69054 MW-13 | NSL0125-01 | 11/23/09 13:31 |
| AC69061 MW-21 | NSL0125-02 | 11/23/09 14:43 |
| AC69067 MW-16D | NSL0125-03 | 11/23/09 13:28 |
| AC69074 MW-16S | NSL0125-04 | 11/23/09 14:33 |
| AC69204 MW-18 | NSL0125-05 | 11/23/09 16:01 |
| AC69206-N MW-6 | NSL0125-06 | 11/23/09 18:30 |
| AC69207-N MW-8 | NSL0125-07 | 11/24/09 08:37 |
| AC69208-N MW-7A | NSL0125-08 | 11/24/09 09:00 |
| AC69209-N MW-5A | NSL0125-09 | 11/24/09 09:17 |
| AC69210-N MW-4 | NSL0125-10 | 11/24/09 09:37 |
| AC69211-N MW-1A | NSL0125-11 | 11/24/09 09:53 |
| AC69212-N MW-9 | NSL0125-12 | 11/24/09 10:10 |
| AC69213-N MW-3A | NSL0125-13 | 11/24/09 10:39 |
| AC69214-N MW-12 | NSL0125-14 | 11/24/09 11:47 |
| AC69215-N MW-2 | NSL0125-15 | 11/24/09 12:07 |

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Additional Laboratory Comments: REVISED REPORT: 01/06/10 KAH - To reference North Carolina Certification. This report replaces the one generated on 01/05/09 @ 13:45.
North Carolina Certification Number: 387
The Chain(s) of Custody, 4 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSL0125 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 12/01/09 08:00 |

Ken A. Hayes

Senior Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSL0125 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 12/01/09 08:00 |

## ANALYTICAL REPORT

| Analyte | Result | Flag | Units | MRL | Dilution Factor | Analysis Date/Time | Method | Batch |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: NSL0125-01 (AC69054 MW-13 - Water) Sampled: 11/23/09 13:31** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |
| **Sample ID: NSL0125-02 (AC69061 MW-21 - Water) Sampled: 11/23/09 14:43** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |
| **Sample ID: NSL0125-03 (AC69067 MW-16D - Water) Sampled: 11/23/09 13:28** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | **0.0395** | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |
| **Sample ID: NSL0125-04 (AC69074 MW-16S - Water) Sampled: 11/23/09 14:33** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | **0.288** | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |
| **Sample ID: NSL0125-05 (AC69204 MW-18 - Water) Sampled: 11/23/09 16:01** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |
| **Sample ID: NSL0125-06 (AC69206-N MW-6 - Water) Sampled: 11/23/09 18:30** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | **0.0382** | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |
| **Sample ID: NSL0125-07 (AC69207-N MW-8 - Water) Sampled: 11/24/09 08:37** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |
| **Sample ID: NSL0125-08 (AC69208-N MW-7A - Water) Sampled: 11/24/09 09:00** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | **0.156** | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |
| **Sample ID: NSL0125-09 (AC69209-N MW-5A - Water) Sampled: 11/24/09 09:17** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | **0.0439** | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |
| **Sample ID: NSL0125-10 (AC69210-N MW-4 - Water) Sampled: 11/24/09 09:37** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | **0.0393** | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |
| **Sample ID: NSL0125-11 (AC69211-N MW-1A - Water) Sampled: 11/24/09 09:53** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |
| **Sample ID: NSL0125-12 (AC69212-N MW-9 - Water) Sampled: 11/24/09 10:10** | | | | | | | | |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSL0125 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 12/01/09 08:00 |

## ANALYTICAL REPORT

| Analyte | Result | Flag | Units | MRL | Dilution Factor | Analysis Date/Time | Method | Batch |
|---|---|---|---|---|---|---|---|---|
| **Sample ID: NSL0125-12 (AC69212-N MW-9 - Water) - cont. Sampled: 11/24/09 10:10** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | **0.112** | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |
| **Sample ID: NSL0125-13 (AC69213-N MW-3A - Water) Sampled: 11/24/09 10:39** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |
| **Sample ID: NSL0125-14 (AC69214-N MW-12 - Water) Sampled: 11/24/09 11:47** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | <0.0300 | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |
| **Sample ID: NSL0125-15 (AC69215-N MW-2 - Water) Sampled: 11/24/09 12:07** | | | | | | | | |
| General Chemistry Parameters | | | | | | | | |
| Total Organic Halides | **0.214** | | mg/L | 0.0300 | 1 | 12/17/09 11:37 | SW846 9020B | 9120527 |

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| | | | |
|---|---|---|---|
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| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 12/01/09 08:00 |

## PROJECT QUALITY CONTROL DATA
### Blank

| Analyte | Blank Value | Q | Units | Q.C. Batch | Lab Number | Analyzed Date/Time |
|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | |
| **9120527-BLK1** | | | | | | |
| Total Organic Halides | <0.0270 | | mg/L | 9120527 | 9120527-BLK1 | 12/17/09 11:37 |

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| | | | |
|---|---|---|---|
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| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 12/01/09 08:00 |

## PROJECT QUALITY CONTROL DATA
## LCS

| Analyte | Known Val. | Analyzed Val | Q | Units | % Rec. | Target Range | Batch | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | |
| **9120527-BS1** | | | | | | | | |
| Total Organic Halides | 0.250 | 0.232 | | mg/L | 93% | 90 - 120 | 9120527 | 12/17/09 11:37 |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSL0125 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 12/01/09 08:00 |

## PROJECT QUALITY CONTROL DATA

### LCS Dup

| Analyte | Orig. Val. | Duplicate | Q | Units | Spike Conc | % Rec. | Target Range | RPD | Limit | Batch | Sample Duplicated | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | |
| **9120527-BSD1** | | | | | | | | | | | | |
| Total Organic Halides | | 0.232 | | mg/L | 0.250 | 93% | 90 - 120 | 0.02 | 40 | 9120527 | | 12/17/09 11:37 |

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| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSL0125 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 12/01/09 08:00 |

## PROJECT QUALITY CONTROL DATA
### Matrix Spike

| Analyte | Orig. Val. | MS Val | Q | Units | Spike Conc | % Rec. | Target Range | Batch | Sample Spiked | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | |
| **9120527-MS1** | | | | | | | | | | |
| Total Organic Halides | ND | 0.103 | | mg/L | 0.100 | 103% | 70 - 130 | 9120527 | NSL0125-05 | 12/17/09 11:37 |

TestAmerica
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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

| | | | |
|---|---|---|---|
| Client | Rogers & Callcott Engineers, Inc. (13572) | Work Order: | NSL0125 |
| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 12/01/09 08:00 |

## PROJECT QUALITY CONTROL DATA

### Matrix Spike Dup

| Analyte | Orig. Val. | Duplicate | Q | Units | Spike Conc | % Rec. | Target Range | RPD | Limit | Batch | Sample Duplicated | Analyzed Date/Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry Parameters** | | | | | | | | | | | | |
| **9120527-MSD1** | | | | | | | | | | | | |
| Total Organic Halides | ND | 0.121 | | mg/L | 0.100 | 121% | 70 - 130 | 17 | 40 | 9120527 | NSL0125-05 | 12/17/09 11:37 |

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| | | | |
|---|---|---|---|
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| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 12/01/09 08:00 |

## CERTIFICATION SUMMARY

**TestAmerica Nashville**

| Method | Matrix | AIHA | Nelac | North Carolina |
|---|---|---|---|---|
| SW846 9020B | Water | N/A | X | X |

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|---|---|---|---|
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| | P.O. Box 5655 | Project Name: | TOX, NC |
| | Greenville, SC 29606 | Project Number: | [none] |
| Attn | Susan Gunter | Received: | 12/01/09 08:00 |

## DATA QUALIFIERS AND DEFINITIONS

**ND** Not detected at the reporting limit (or method detection limit if shown)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

# COOLER REC

NSL0125

Cooler Received/Opened On: 12/1/2009 @ 8:00

1. Tracking # 4246 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID: 95610068

2. Temperature of rep. sample or temp blank when opened: 0.0 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? YES (NO) NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...(NA)

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES (NO) and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? YES (NO) NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES (NO) NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____ 12/1/09

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES (NO) NA

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO..(NA)

16. Was residual chlorine present? YES (NO) NA

Sample No 15 69215-N mm-2 has pH = 7

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? (YES)...NO Was a PIPE generated? (YES) NO...# 55567

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

ROGERS & CALLCOTT
LABORATORY SERVICES
P.O. Box 5655, Greenville, SC 29606
Phone (864) 232-1556 Fax (864) 232-6140
Shipping Address: 426 Fairforest Way
Greenville, SC 29607

# CHAIN OF CUSTODY RECORD



NSL0125
12/15/09 23:59

Client Name: ROGERS + CALLCOTT
Address:
Report To: SUSAN GUNTER
Telephone No.: FAX No.:
PO No.: Project No.:

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | N | | | | | | Filtered (Yes/No) |
| | | | | | | | | Y | | | | | | Cooled (Yes/No) |
| | | | | | | | | G | | | | | | Container Type (P/G) |
| | | | | | | | | 500 | | | | | | Container Volume |
| | | | | | | | | G | | | | | | Sample Type (Grab/Composite) |
| | | | | | | | | GW | | | | | | Sample Source (WW, GW, DW, Other) |
| | | | | | | | | N | | | | | | Sample Source Chlorinated (Yes/No) |
| | | | | | | | | | | | | | | Lab Receipt $Cl_2$ Check |
| | | | | | | | | | | | | | | Lab Receipt pH Check |
| | | | | | | | | B | | | | | | Preserved (Code) |

A–None D–NaOH G–Boric Acid
B–$HNO_3$ E–HCL H–Ascorbic Acid
C–$H_2SO_4$ F–$Na_2S_2O_3$ I– ____

| | Rogers & Callcott Lab No. | Yr. 09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS | TOX | | | | | | | COMMENTS: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 AC | 69054 | 11.23 | 1331 | MN-13 | 1 | | 1 | | | | | | | SUBCONTRACT TO TEST AMERICA |
| 02 | 69061 | ↓ | 1443 | MN-21 | 1 | | 1 | | | | | | | |
| 03 | 69067 | | 1328 | MN-10D | 1 | | 1 | | | | | | | |
| 04 | 69074 | | 1433 | MW-16S | 1 | | 1 | | | | | | | |
| 05 | 69204 | | 1601 | MW-18 | 1 | | 1 | | | | | | | |
| 06 | 69206-N | ↓ | 1830 | MW-6 | 1 | | 1 | | | | | | | |
| 07 | 69207-N | 11 24 | 0837 | MW-8 | 1 | | 1 | | | | | | | |

| SAMPLER Relinquished by (Sig.) | Date/Time | Received by (Sig.) / Shipper Name & # | Date/Time |
|---|---|---|---|
| ① [signature] | 11.30.09 1000 | ② [signature] | 12/1 8:00 |
| Relinquished by (Sig.) ③ | Date/Time | Received by (Sig.) ④ / Shipper Name & # | Date/Time |
| Relinquished by (Sig.) ⑤ | Date/Time | Received by (Sig.) ⑥ / Shipper Name & # | Date/Time |

Seal # at'chd by ◯ Recvd. Intact by ◯ Seal # at'chd by ◯ Recvd. Intact by ◯

**KNOWN HAZARDS ASSOCIATED WITH SAMPLES**

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt ____ °C

Form Revised July 2008

R/C COC FORM

# ROGERS & CALLCOTT LABORATORY SERVICES

P.O. Box 5655, Greenville, SC 29606
Phone (864) 232-1556 Fax (864) 232-6140
Shipping Address: 426 Fairforest Way
Greenville, SC 29607

## CHAIN OF CUSTODY RECORD



Client Name: ROGERS & CALLCOTT

Address:

Report To: SUSAN GUNTER

Telephone No.: FAX No.:

PO No.: Project No.:

| Rogers & Callcott Lab No. | Yr.09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS: TOX | Filtered (Yes/No) | Cooled (Yes/No) | Container Type (P/G) | Container Volume | Sample Type (Grab/Composite) | Sample Source (WW, GW, DW, Other) | Sample Source Chlorinated (Yes/No) | Lab Receipt Cl2 Check | Lab Receipt pH Check | Preserved (Code) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | B | N | Y | G | 500 | G | GW | N | | | B |
| 08 AC 69208-N | 11.24 | 0900 | MW-7A | 1 | 1 | | | | | | | | | | 1 |
| 09 AC 69209-N | | 0917 | MW-5A | 1 | 1 | | | | | | | | | | 1 |
| 10 AC 69210-N | | 0937 | MW-4 | 1 | 1 | | | | | | | | | | 1 |
| 11 AC 69211-N | | 0953 | MW-1A | 1 | 1 | | | | | | | | | | 1 |
| 12 AC 69212-N | | 1010 | MW-9 | 1 | 1 | | | | | | | | | | 1 |
| 13 AC 69213-N | | 1039 | MW-3A | 1 | 1 | | | | | | | | | | 1 |
| 14 AC 69214-N | ↓ | 1147 | MW-12 | 1 | 1 | | | | | | | | | | 1 |

Preserved (Code): A-None, B-$HNO_3$, C-$H_2SO_4$, D-NaOH, E-HCL, F-$Na_2S_2O_3$, G-Boric Acid, H-Ascorbic Acid, I- ____

COMMENTS: SUBCONTRACT TO TEST AMERICA

| | | | |
|---|---|---|---|
| SAMPLER Relinquished by (Sig.) ① | Date/Time 11.30.09 1000 | Received by (Sig.) ② Shipper Name & # | Date/Time 12/1 8:00 |
| Relinquished by (Sig.) ③ | Date/Time | Received by (Sig.) ④ Shipper Name & # | Date/Time |
| Relinquished by (Sig.) ⑤ | Date/Time | Received by (Sig.) ⑥ Shipper Name & # | Date/Time |
| Seal # at'chd by ○ | Recvd. Intact by ○ | Seal # at'chd by ○ | Recvd. Intact by ○ |

KNOWN HAZARDS ASSOCIATED WITH SAMPLES

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt ____ °C

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Greenville, SC 29607

## CHAIN OF CUSTODY RECORD



Client Name: ROGERS + CALLCOTT

Address:

Report To: SUSAN GUNTER

Telephone No.: FAX No.:

PO No.: Project No.:

| Rogers & Callcott Lab No. | Yr.09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS: B | PARAMETERS: TOX |
|---|---|---|---|---|---|---|
| 092154N | 11.24 | 1207 | MW-2 | 1 | | 1 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

IS AC

| | | | |
|---|---|---|---|
| Filtered (Yes/No) | N | | |
| Cooled (Yes/No) | Y | | |
| Container Type (P/G) | G | | |
| Container Volume | 500 | | |
| Sample Type (Grab/Composite) | G | | |
| Sample Source (WW, GW, DW, Other) | GW | | |
| Sample Source Chlorinated (Yes/No) | N | | |
| Lab Receipt Cl, Check | | | |
| Lab Receipt pH Check | | | |

Preserved (Code)

A-None D-NaOH G-Boric Acid
B-$HNO_3$ E-HCL H-Ascorbic Acid
C-$H_2SO_4$ F-$Na_2S_2O_3$ I-____

COMMENTS:

SUBCONTRACT TO TEST AMERICA

| | | | | |
|---|---|---|---|---|
| SAMPLER Relinquished by (Sig.) ① | Date/Time 11.30.09 1000 | Received by (Sig.) ② Shipper Name & # | Date/Time 12/1 8:00 | KNOWN HAZARDS ASSOCIATED WITH SAMPLES |
| Relinquished by (Sig.) ③ | Date/Time | Received by (Sig.) ④ Shipper Name & # | Date/Time | |
| Relinquished by (Sig.) ⑤ | Date/Time | Received by (Sig.) ⑥ Shipper Name & # | Date/Time | Temperature of blank or representative sample<br>At time of collection ____ °C<br>At time of lab receipt ____ °C |
| Seal # at'chd by ○ | Recvd. Intact by ○ | Seal # at'chd by ○ | Recvd. Intact by ○ | |

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AN EMPLOYEE-OWNED COMPANY

# Blue Ridge Paper Products
# Monitoring Wells
# 4th Quarter 2009

## Case Narrative

Groundwater samples were collected by representatives of Rogers and Callcott Engineers, Inc., and were submitted to the Rogers and Callcott Laboratory on 11/16/2009 – 11/24/2009.

Nitrite – SM4500NO2B

The requested project RDL for Nitrite of 0.01 mg/L was not met for the following samples due to analyst error. The RDL has been elevated to 0.02 mg/L for these samples.

| | |
|---|---|
| AC68797 | MW-17 |
| AC68800 | MW-14 |
| AC68805 | MW-20 |
| AC68806 | MW-10 |
| AC68807 | MW-11 |
| AC68810 | MW-15 |

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Greenville, SC 29607

# CHAIN OF CUSTODY RECORD



Client Name: BRPC

Address: Canton, NC

Report To:

Telephone No.: FAX No.:

PO No.: Project No. 2004-159

| Rogers & Callcott Lab No. | Yr.09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS: Total Metals* | Hg | $NO_3$-$NO_2$ | TOC | TOX ⊗ | Phenols | TDS, BCs 11/16/09 Cl, F, $NO_2$, $SO_4$ | Preserved (Code) / COMMENTS: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Filtered (Yes/No) | | N | | | | | | | |
| | | | Cooled (Yes/No) | | Y | | | | | | | |
| | | | Container Type (P/G) | | P | | | G | G | P | | |
| | | | Container Volume | | 500 mL | 250 mL | | 500 mL | 1 L | ½ gal | | |
| | | | Sample Type (Grab/Composite) | | G | | | | | | | |
| | | | Sample Source (WW, GW, DW, Other) | | Surface Water | | | | | | | |
| | | | Sample Source Chlorinated (Yes/No) | | N | | | | | | | |
| | | | Lab Receipt Cl, Check | | NA | NA | NA | NA | | NA | NA | mcz 11-18-09 |
| | | | Lab Receipt pH Check | | <2 | <2 | <2 | <2 | | <2 | NA | |
| | | | Preserved (Code) | | B | B | C | I | B | C | A | |
| AC | 106583 | 11/16 | 1130 | Pigeon River - Down | 7 | 1 | 1-RR | 1-GZ | 1-P | 1-N | 1-GL | 1 | *As, Ba, Cd, Ca, Cr, Co, Fe, Pb, Mg, Mn, |
| | 106584 | 11/16 | 1205 | BB-Up | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Ni, K, Se, Ag, Na, Zn |
| | 106585 | 11/16 | 1230 | BB-Down | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | ⊗ subcontract |
| | 106586 | 11/16 | 1255 | BB-3 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | ** see pg 2 for additional parameters |
| | 106587 | 11/16 | 1320 | BB-4 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 106588 | 11/16 | 1340 | Pigeon River - Up | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 106589 | 11/16 | 1540 | Underflow Drain** | 5 | 1 | 1 | | 1 | 1 | 1 | | Field data collected |

A=None B=$HNO_3$ C=$H_2SO_4$ D=NaOH E=HCL F=$Na_2S_2O_3$ G=Boric Acid H=Ascorbic Acid I=Phosphoric

| | Date/Time | | Date/Time |
|---|---|---|---|
| SAMPLER Relinquished by (Sig.) ① Bradley Cloud | 11/16/09 1915 | Received by (Sig.) ② Secure Location Shipper Name & # | |
| Relinquished by (Sig.) ③ Secure Location | | Received by (Sig.) ④ Shipper Name & # | 11.17.09 0730 |
| Relinquished by (Sig.) ⑤ | | Received by (Sig.) ⑥ Shipper Name & # | |

KNOWN HAZARDS ASSOCIATED WITH SAMPLES

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt -1.7 NE °C

Seal # at'chd by ○ Recvd. Intact by ○ Seal # at'chd by ○ Recvd. Intact by ○

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Greenville, SC 29607

# CHAIN OF CUSTODY RECORD



Client Name BRPC

Address

Canton, NC

Report To:

Telephone No. FAX No.

PO No. Project No. 2004-159

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | N | N | | | | Filtered (Yes/No) |
| | | | | | | | | Y | Y | | | | Cooled (Yes/No) |
| | | | | | | | | P | P | | | | Container Type (P/G) |
| | | | | | | | | 250 ml | 1/2 gal | | | | Container Volume |
| | | | | | | | | G | G | | | | Sample Type (Grab/Composite) |
| | | | | | | | | Surface | Water | | | | Sample Source (WW, GW, DW, Other) |
| | | | | | | | | | | | | | Sample Source Chlorinated (Yes/No) |
| | | | | | | | | NA | NA | | | | Lab Receipt $Cl_2$ Check mcs 11-18-09 |
| | | | | | | | | <2 | NA | | | | Lab Receipt pH Check |
| | | | | | | | | C | A | | | | Preserved (Code) |

A–None D–NaOH G–Boric Acid
B–$HNO_3$ E–HCL H–Ascorbic Acid
C–$H_2SO_4$ F–$Na_2S_2O_3$ I– ____

| Rogers & Callcott Lab No. | Yr. 09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS | COD, $NO_2^-$, $NO_3$ | TDS, $NO_2$, BOD, Cl, F, $SO_4$ | | | | | | COMMENTS: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC 685569 | 11/16 | 1540 | Underflow Drain | 2 | G2 | 1 | 1 | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| SAMPLER Relinquished by (Sig.) | Date/Time | Received by (Sig.) | Date/Time |
|---|---|---|---|
| ① Bradley C Sid | 11/16/09 1915 | ② Secure Location Shipper Name & # | |
| Relinquished by (Sig.) ③ Secure Location | Date/Time | Received by (Sig.) ④ [signature] Shipper Name & # | 11.17.09 0730 |
| Relinquished by (Sig.) ⑤ | Date/Time | Received by (Sig.) ⑥ Shipper Name & # | Date/Time |
| Seal # at'chd by ◯ Recvd. Intact by ◯ | | Seal # at'chd by ◯ Recvd. Intact by ◯ | |

**KNOWN HAZARDS ASSOCIATED WITH SAMPLES**

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt -1.7 NF °C

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Greenville, SC 29607

# CHAIN OF CUSTODY RECORD



Client Name BRPC

Address Canton, NC

Report To:

Telephone No. FAX No.

PO No. Project No. 2004-159

| Rogers & Callcott Lab No. | Yr.09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS: Total Metals,* | Hg | Phos, NO3-N, COD | TOC | TOX ⊗ | Phenols | BOD, NO2, Cl, F, SO4, TDS | Preserved (Code) | Lab Receipt pH Check |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | B | B | C | I | B | C | A | | |
| AC 088590 | 11/16 | 1615 | Landfill Leachate | 7 | 1 | 1-P | 1-GP | 1-P | 1-N | 1-GI | 1 | *See pg1 | |
| | | | | | | | | | | | | ⊗ subcontract | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | Field data collected | |

Filtered (Yes/No): N
Cooled (Yes/No): Y
Container Type (P/G): P P P G G P
Container Volume: 500 mL 250 mL 500 mL 1 L ½ gal
Sample Type (Grab/Composite): G
Sample Source (WW, GW, DW, Other): Surface Water
Sample Source Chlorinated (Yes/No): N
Lab Receipt Cl2 Check: NA NA NA NA NA NA
Lab Receipt pH Check: ☒ ☒ ☒ ☒ ☒ NA — mcs 11-18-09

A-None D-NaOH G-Boric Acid
B-$HNO_3$ E-HCL H-Ascorbic Acid
C-$H_2SO_4$ F-$Na_2S_2O_3$ I- ____

**COMMENTS:**
☒ check pH @ bench

| SAMPLER Relinquished by (Sig.) | Date/Time | Received by (Sig.) | Date/Time |
|---|---|---|---|
| ① Bradley Clark | 11/16/09 1915 | ② Secure Location Shipper Name & # | |
| Relinquished by (Sig.) ③ Secure Location | Date/Time | Received by (Sig.) ④ Shipper Name & # | Date/Time 11.17.09 0730 |
| Relinquished by (Sig.) ⑤ | Date/Time | Received by (Sig.) ⑥ Shipper Name & # | Date/Time |

**KNOWN HAZARDS ASSOCIATED WITH SAMPLES**

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt -1.7 NE °C

Seal # at'chd by ○ Recvd. Intact by ○ Seal # at'chd by ○ Recvd. Intact by ○

Form Revised July 2008

R/C COC FORM

# ROGERS & CALLCOTT LABORATORY SERVICES

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Greenville, SC 29607

# CHAIN OF CUSTODY RECORD



Client Name: BRPC

Address: Canton, NC

Report To:

Telephone No. _____ FAX No. _____

PO No. _____ Project No. 2004-159

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | N | N | N | N | N | N | N | Filtered (Yes/No) |
| | | | | | | | Y | Y | Y | Y | Y | Y | Y | Cooled (Yes/No) BCS 11/19/09 |
| | | | | | | | P | P | P | G | P | G | ~~250 m~~ P | Container Type (P/G) |
| | | | | | | | 500 mL | 250 mL | 1/2 gal | 1 L | 250 mL | 500 mL | 250 mL | Container Volume |
| | | | | | | | G | G | G | G | G | G | G | Sample Type (Grab/Composite) |
| | | | | | | | GW | GW | GW | GW | GW | GW | GW | Sample Source (WW, GW, DW, Other) |
| | | | | | | | N | N | N | N | N | N | N | Sample Source Chlorinated (Yes/No) |
| | | | | | | | NA | NA | NA | NA | NA | / | NA | Lab Receipt $Cl_2$ Check |
| | | | | | | | <2 | <2 11/19/09 | NA | <2 | <2 | / | <2 | Lab Receipt pH Check |
| | | | | | | | B | ~~B~~ BCS | A | C | | | C | Preserved (Code) |

A–None D–NaOH G–Boric Acid
B–$HNO_3$ E–HCL H–Ascorbic Acid
C–$H_2SO_4$ F–$Na_2S_2O_3$ I– ____

| Rogers & Callcott Lab No. | Yr. 09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS | Total Metals* | Total Hg | TDS Cl, F, $NO_2$, $SO_4$ | Phenols | TOC | TOX⊛ | $NO_3$ | COMMENTS: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC 68797 | 11/19 | 1136 | MW-17 | 7 | R1 | 1 | R2 1 | 1 | 1-G1 | 1-P | 1-N | 1-G2 | * As, Ba, Cd, Cr, Cu, Fe, Pb, Mg, Mn, Ni |
| 68798 | 11/19 | 1226 | MW-14 | 1 | | 1 | | | | | | | K, Se, Ag, Na, Zn, Ca |
| 68799 | 11/19 | 1229 | MW-14 | 1 | | | 1 | | | | | | ⊛ Sub contracted |
| 68800 | 11/19 | 1230 | MW-14 | 1 | | | | 1 | | | | | |
| 68801 | 11/19 | 1241 | MW-14 | 1 | | | | | 1 | | | | |
| 68802 | 11/19 | 1248 | MW-14 | 1 | | | | | | 1 | | | |
| 68803 | 11/19 | 1250 | MW-14 | 1 | | | | | | | 1 | | |

| SAMPLER Relinquished by (Sig.) | Date/Time | Received by (Sig.) Shipper Name & # | Date/Time |
|---|---|---|---|
| ① Bradley C. Sick | 11/19/09 1810 | ② Alan Hewett | 11/19/09 1810 |
| Relinquished by (Sig.) ③ Alan Hewett | 11/19/09 2010 | Received by (Sig.) ④ Secure Area Shipper Name & # | 11/19/09 2010 |
| Relinquished by (Sig.) ⑤ Secure Area | | Received by (Sig.) ⑥ [signature] Shipper Name & # | 11.20.09 ~~0715~~ 0728 |

Seal # at'chd by ◯ Recvd. Intact by ◯ Seal # at'chd by ◯ Recvd. Intact by ◯

**KNOWN HAZARDS ASSOCIATED WITH SAMPLES**

Temperature of blank or representative sample
At time of collection _____ °C
At time of lab receipt 2.8 °C
KWR 11.20

Form Revised July 2008

R/C COC FORM

# ROGERS & CALLCOTT LABORATORY SERVICES

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Greenville, SC 29607

# CHAIN OF CUSTODY RECORD



Client Name BRPC

Address Cmton, NC

Report To:

Telephone No. FAX No.

PO No. Project No. 2004-159

| Rogers & Callcott Lab No. | Yr.09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS: Total Metals* | Total Hg | TDS Cl, F, $NO_3$, $SO_4$ | Phenols | TOC | TOX | $NO_3$ | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Filtered (Yes/No) | | N | N | N | N | N | N | N | |
| | | | Cooled (Yes/No) | | Y | Y | Y | Y | Y | Y | Y | |
| | | | Container Type (P/G) | | P | P | P | G | P | G | P | |
| | | | Container Volume | | 500 mL | 250 mL | 1/2 gal | 1 L | 250 mL | 500 mL | 250 mL | |
| | | | Sample Type (Grab/Composite) | | G | G | G | G | G | G | G | |
| | | | Sample Source (WW, GW, DW, Other) | | GW | GW | GW | GW | GW | GW | GW | |
| | | | Sample Source Chlorinated (Yes/No) | | N | N | N | N | N | N | N | |
| | | | Lab Receipt $Cl_2$ Check | | NA | NA | NA | NA | NA | / | NA | |
| | | | Lab Receipt pH Check | | <2 | <2 | <2 | <2 | <2 | / | <2 | |
| | | | Preserved (Code) | | B | B | A | C | I | B | C | |
| AC | 68804 | 11/19 | 1253 | MW-14 | 1 | | | | | | 1 | *See pg1 |
| | 68805 | 11/19 | 1500 | MW-20 BCS 11/19/09 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 ⊛ Subcontract |
| | 68806 | 11/19 | 1538 | MW-10 BCS 11/19/09 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 68807 | 11/19 | 1649 | MW-11 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 68808 | 11/19 | 1728 | MW-15 | 1 X BCS 11/19/09 | 1 | | | | | | |
| | 68809 | 11/19 | 1731 | MW-15 | 1 X BCS 11/19/09 | BCS X | 11/19/09 1 | | | | | |
| | 68810 | 11/19 | 1733 | MW-15 | 1 X BCS 11/19/09 | BCS X | 11/19/09 1 | BCS X | 11/19/09 X | X | | |

Preserved (Code): A–None, B–$HNO_3$, C–$H_2SO_4$, D–NaOH, E–HCL, F–$Na_2S_2O_3$, G–Boric Acid, H–Ascorbic Acid, I–Phosphoric

**COMMENTS:**

| | | | |
|---|---|---|---|
| SAMPLER Relinquished by (Sig.) ① Bradley C. Sisk | Date/Time 11/19/09 1810 | Received by (Sig.) ② Alan Howard Shipper Name & # | Date/Time 11/19/09 1810 |
| Relinquished by (Sig.) ③ Alan Howard | Date/Time 11/19/09 2010 | Received by (Sig.) ④ Secure Area Shipper Name & # | Date/Time 11/19/09 2010 |
| Relinquished by (Sig.) ⑤ Secure Area | Date/Time | Received by (Sig.) ⑥ Shipper Name & # | Date/Time 11.20.09 0720 0715 |

**KNOWN HAZARDS ASSOCIATED WITH SAMPLES**

Temperature of blank or representative sample
At time of collection °C
At time of lab receipt 2.8 °C

Seal # at'chd by ○ Recvd. Intact by ○ Seal # at'chd by ○ Recvd. Intact by ○

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Greenville, SC 29607

# CHAIN OF CUSTODY RECORD



Client Name: BRPC

Address: Canton, NC

Report To:

Telephone No. FAX No.

PO No. Project No. 2004-159

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | N | N | N | N | N | N | N | Filtered (Yes/No) |
| | | | | | | | | Y | Y | Y | Y | Y | Y | Y | Cooled (Yes/No) |
| | | | | | | | | P | P | P | G | P | G | P | Container Type (P/G) |
| | | | | | | | | 500 mL | 250 mL | 1/2 gal | 1 L | 250 mL | 500 mL | 250 mL | Container Volume |
| | | | | | | | | G | G | G | G | G | G | G | Sample Type (Grab/Composite) |
| | | | | | | | | GW | GW | GW | GW | GW | GW | GW | Sample Source (WW, GW, DW, Other) |
| | | | | | | | | N | N | N | N | N | N | N | Sample Source Chlorinated (Yes/No) |
| | | | | | | | | NA | NA | NA | NA | NA | / | NA | Lab Receipt $Cl_2$ Check |
| | | | | | | | | <2 | <2 | NA | <2 | <2 | | <2 | Lab Receipt pH Check |
| | | | | | | | | B | B | A | C | I | B | C | Preserved (Code) |
| Rogers & Callcott Lab No. | Yr.09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS | Total Metals* | Total Hg | TDS Cl, F, $NO_2$, $SO_4$ | Phenols | TOC | TOX* | $NO_3$ | COMMENTS: |
| AC 64811 | 11/19 | 1743 | MW-15 | 1 | | | | | 1 | | | | * see pg 1 |
| 64812 | 11/19 | 1750 | MW-15 | 1 | | | | | | 1 | | | ② subcontract |
| 64813 | 11/19 | 1752 | MW-15 | 1 | | | | | | | 1 | | |
| 64814 | 11/19 | 1755 | MW-15 | 1 | | | | | | | | 1 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

A–None, B–$HNO_3$, C–$H_2SO_4$, D–NaOH, E–HCL, F–$Na_2S_2O_3$, G–Boric Acid, H–Ascorbic Acid, I–phosphoric

| SAMPLER Relinquished by (Sig.) | Date/Time | Received by (Sig.) / Shipper Name & # | Date/Time |
|---|---|---|---|
| ① Bradley C Sick | 11/19/09 1810 | ② Alan Hewett | 11/19/09 1810 |
| Relinquished by (Sig.) ③ Alan Hewett | 11/19/09 2010 | Received by (Sig.) ④ Secure Area | 11/19/09 2010 |
| Relinquished by (Sig.) ⑤ Secured Area | | Received by (Sig.) ⑥ ~~Norma Salley~~ KRee | 11.20.09 0728 ~~11-20-09 0728~~ MCW 11-20-09 |

Seal # at'chd by ◯ Recvd. Intact by ◯ Seal # at'chd by ◯ Recvd. Intact by ◯

**KNOWN HAZARDS ASSOCIATED WITH SAMPLES**

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt 2.8 °C

Form Revised July 2008

R/C COC FORM

# ROGERS & CALLCOTT LABORATORY SERVICES

P.O. Box 5655, Greenville, SC 29606
Phone (864) 232-1556 Fax (864) 232-6140
Shipping Address: 426 Fairforest Way
Greenville, SC 29607

## CHAIN OF CUSTODY RECORD



Client Name: BRPC

Address: Canton, NC

Report To:

Telephone No. FAX No.

PO No. Project No. 04-159

| Rogers & Callcott Lab No. | Yr. 09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS: Total Metals* | Hg | Chloride/Fluride/TDS/NO2/SO4 | NO3 | Phenols | TOC | TOX ⊗ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Filtered (Yes/No) | | N | N | N | N | N | N | N |
| | | | Cooled (Yes/No) | | Y | Y | Y | Y | Y | Y | Y |
| | | | Container Type (P/G) | | P | P | P | P | G | P | G |
| | | | Container Volume | | 500 | 250 | ½ | 250 | 1L | 250 | 500 |
| | | | Sample Type (Grab/Composite) | | G | G | G | G | G | G | G |
| | | | Sample Source (WW, GW, DW, Other) | | GW | GW | GW | GW | GW | GW | GW |
| | | | Sample Source Chlorinated (Yes/No) | | N | N | N | N | N | N | N |
| | | | Lab Receipt Cl2 Check | | NA | NA | NA | NA | NA | NA | / |
| | | | Lab Receipt pH Check | | <2 | <2 | NA | <2 | <2 | <2 | / |
| | | | Preserved (Code) | | B | B | A | C | C | I | B |
| AC | 69046 | 11-23 | 1255 | MW-13 | 1 | 1 | | | | | | |
| | 69049 | | 1259 | MW-13 | 1 | | 1 | | | | | |
| | 69050 | | 1301 | MW-13 | 1 | | | 1 | | | | |
| | 69051 | | 1315 | MW-13 | 1 | | | | 1 | | | |
| | 69052 | | 1319 | MW-13 | 1 | | | | | 1 | | |
| | 69053 | | 1329 | MW-13 | 1 | | | | | | 1 | |
| | 69054 | | 1331 | MW-13 | 1 | | | | | | | 1 |

A–None B–$HNO_3$ C–$H_2SO_4$ D–NaOH E–HCL F–$Na_2S_2O_3$ G–Boric Acid H–Ascorbic Acid I– phosphoric Acid

**COMMENTS:**

* - As, Ba, Cd, Cr, Cu, Ca, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Zn

⊗ subcontract

Field Data Collected

| | | | |
|---|---|---|---|
| SAMPLER Relinquished by (Sig.) ① | Date/Time 11-23-09 \| 1700 | Received by (Sig.) ② Shipper Name & # | Date/Time 11.23.09 \| 1700 |
| Relinquished by (Sig.) ③ | Date/Time | Received by (Sig.) ④ Shipper Name & # | Date/Time |
| Relinquished by (Sig.) ⑤ | Date/Time | Received by (Sig.) ⑥ Shipper Name & # | Date/Time |
| Seal # at'chd by ○ Recvd. Intact by ○ | | Seal # at'chd by ○ Recvd. Intact by ○ | |

**KNOWN HAZARDS ASSOCIATED WITH SAMPLES**

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt -0.3NE °C

# ROGERS & CALLCOTT LABORATORY SERVICES

P.O. Box 5655, Greenville, SC 29606
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Greenville, SC 29607

# CHAIN OF CUSTODY RECORD



Client Name: BRPC

Address: Canton, NC

Report To:

Telephone No.: FAX No.:

PO No.: Project No. 09-159

| Rogers & Callcott Lab No. | Yr. 09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS: Tot. Metals* | Hg | Chloride/Fluoride/TDS/$NO_2$/$SO_4$ | $NO_3$ | Phenols | TOC | TOX (Ⓢ) | Preserved (Code) | COMMENTS: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | B | B | A | C | C | I | B | | |
| | | | | | N | N | N | N | N | N | N | Filtered (Yes/No) | |
| | | | | | Y | Y | Y | Y | Y | Y | Y | Cooled (Yes/No) | |
| | | | | | P | P | P | P | G | P | G | Container Type (P/G) | |
| | | | | | 500 | 250 | ½ | 250 | 1L | 250 | 500 | Container Volume | |
| | | | | | G | G | G | G | G | G | G | Sample Type (Grab/Composite) | |
| | | | | | GW | GW | GW | GW | GW | GW | GW | Sample Source (WW, GW, DW, Other) | |
| | | | | | N | N | N | N | N | N | N | Sample Source Chlorinated (Yes/No) | |
| | | | | | NA | NA | NA | NA | NA | NA | / | Lab Receipt $Cl_2$ Check | |
| | | | | | | K2 | NA | K2 | K2 | K2 | / | Lab Receipt pH Check | |
| AC 609055 | 11-23 | 1414 | MW-21 | 1 | 1 | | | | | | | | * See 1st Page |
| 609056 | | 1416 | MW-21 | 1 | | 1 | | | | | | | |
| 609057 | | 1418 | MW-21 | 1 | | | 1 | | | | | | Ⓢ subcontract |
| 609058 | | 1429 | MW-21 | 1 | | | | 1 | | | | | |
| 609059 | | 1431 | MW-21 | 1 | | | | | 1 | | | | |
| 609060 | | 1441 | MW-21 | 1 | | | | | | 1 | | | Field Data Collected |
| 609061 | | 1443 | MW-21 | 1 | | | | | | | 1 | | |

Preserved (Code): A-None, B-$HNO_3$, C-$H_2SO_4$, D-NaOH, E-HCl, F-$Na_2S_2O_3$, G-Boric Acid, H-Ascorbic Acid, I- Phosphoric Acid

| | | | |
|---|---|---|---|
| SAMPLER Relinquished by (Sig.) ① | Date/Time 11-23-09 1706 | Received by (Sig.) ② Shipper Name & # | Date/Time 11.23.09 1700 |
| Relinquished by (Sig.) ③ | Date/Time | Received by (Sig.) ④ Shipper Name & # | Date/Time |
| Relinquished by (Sig.) ⑤ | Date/Time | Received by (Sig.) ⑥ Shipper Name & # | Date/Time |
| Seal # at'chd by ○ Recvd. Intact by ○ | | Seal # at'chd by ○ Recvd. Intact by ○ | |

KNOWN HAZARDS ASSOCIATED WITH SAMPLES

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt -0.3NF °C

# ROGERS & CALLCOTT LABORATORY SERVICES

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Greenville, SC 29607

# CHAIN OF CUSTODY RECORD



Client Name BRPC

Address

Canton, NC

Report To:

Telephone No. FAX No.

PO No. Project No. 2004-159

| Rogers & Callcott Lab No. | Yr.09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS: Total Metals* | Total Hg | SO4, Cl, F, TDS, NO2 | Phenols | TOC | TOX® | NO3-NO2 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Filtered (Yes/No) | | N | | | | | | |
| | | | Cooled (Yes/No) | | Y | | | | | | |
| | | | Container Type (P/G) | | P | P | P | G | P | G | P |
| | | | Container Volume | | 500 mL | 250 mL | ½ gal | 1 L | 250 mL | 500 mL | 250 mL |
| | | | Sample Type (Grab/Composite) | | G | | | | | | |
| | | | Sample Source (WW, GW, DW, Other) | | GW | | | | | | |
| | | | Sample Source Chlorinated (Yes/No) | | N | | | | | | |
| | | | Lab Receipt Cl2 Check | | NA | NA | NA | NA | NA | | NA |
| | | | Lab Receipt pH Check | | | <2 | NA | <2 | <2 | | <2 |
| | | | Preserved (Code) | | B | B | A | C | I | B | C |
| AC 690602 | 11/23 | 1240 | MW-16D | 1 | 1 | | | | | | |
| 690603 | | 1246 | | 1 | | 1 | | | | | |
| 690604 | | 1248 | | 1 | | | 1 | | | | |
| 690605 | | 1311 | | 1 | | | | 1 | | | |
| 690606 | | 1324 | | 1 | | | | | 1 | | |
| 690607 | | 1328 | | 1 | | | | | | 1 | |
| 690608 | | 1332 | | 1 | | | | | | | 1 |

A-None D-NaOH G-Boric Acid
B-$HNO_3$ E-HCL H-Ascorbic Acid
C-$H_2SO_4$ F-$Na_2S_2O_3$ I- phosphoric

COMMENTS:

* As, Ba, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Zn;
® Subcontract

| | Date/Time | | Date/Time |
|---|---|---|---|
| SAMPLER Relinquished by (Sig.) ① | 11/23/09 1500 | Received by (Sig.) ② Shipper Name & # | 11-23-09 1500 |
| Relinquished by (Sig.) ③ | 11-23-09 1700 | Received by (Sig.) ④ Shipper Name & # | 11.23.09 1700 |
| Relinquished by (Sig.) ⑤ | | Received by (Sig.) ⑥ Shipper Name & # | |
| Seal # at'chd by ○ Recvd. Intact by ○ | | Seal # at'chd by ○ Recvd. Intact by ○ | |

KNOWN HAZARDS ASSOCIATED WITH SAMPLES

Temperature of blank or representative sample
At time of collection °C
At time of lab receipt -0.3NF °C

# ROGERS & CALLCOTT LABORATORY SERVICES

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Greenville, SC 29607

# CHAIN OF CUSTODY RECORD



Client Name BCS 4/23/09 ~~Bradley~~ BRPC

Address

Canton, NC

Report To:

Telephone No. FAX No.

PO No. Project No. 2004-159

| Rogers & Callcott Lab No. | Yr.09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS: Total Metals* | Total Hg | SO4, Cl, F, TDS, NO2 | Phenols | TOC | TOX ⊛ | NO3 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC 690109 | 11/23 | 1418 | MW-16S | 1 | 1 | | | | | | | * see pg 1 |
| 690170 | | 1420 | | 1 | | 1 | | | | | | ⊛ Subcontract |
| 690171 | | 1422 | | 1 | | | 1 | | | | | |
| 690172 | | 1432 | | 1 | | | | 1 | | | | |
| 690173 | | 1438 | | 1 | | | | | 1 | | | |
| 690174 | | 1433 | | 1 | | | | | | 1 | | |
| 690175 | | 1441 | | 1 | | | | | | | 1 | |
| Preservation | | | | | B | B | A | C | 1 | B | C | |
| Lab Receipt pH Check | | | | | <2 | NA | <2 | <2 | <2** | / | <2 | |
| Lab Receipt Cl, Check | | | | | NA | NA | NA | NA | NA | / | NA | |
| Sample Source Chlorinated (Yes/No) | | | | | N | | | | | | | |
| Sample Source (WW, GW, DW, Other) | | | | | GW | | | | | | | |
| Sample Type (Grab/Composite) | | | | | G | | | | | | | |
| Container Volume | | | | | 500 mL | 250 mL | 1/2 gal | 1 L | 250 mL | 500 mL | 250 mL | |
| Container Type (P/G) | | | | | P | P | P | G | P | G | P | |
| Cooled (Yes/No) | | | | | Y | | | | | | | |
| Filtered (Yes/No) | | | | | N | | | | | | | |

Preserved (Code)

A-None D-NaOH G-Boric Acid
B-$HNO_3$ E-HCL H-Ascorbic Acid
C-$H_2SO_4$ F-$Na_2S_2O_3$ I- phosphoric

**COMMENTS:**

** Pres. w/ additional $H_3PO_4$ in lab 11-24-09: mcc

| SAMPLER Relinquished by (Sig.) | Date/Time | Received by (Sig.) | Date/Time |
|---|---|---|---|
| ① Bradley C Bell | 11/23/09 1500 | ② Shipper Name & # | 11-23-09 1700 |
| Relinquished by (Sig.) ③ | Date/Time 11-23-09 1700 | Received by (Sig.) ④ Shipper Name & # | Date/Time 11-23-09 1700 |
| Relinquished by (Sig.) ⑤ | Date/Time | Received by (Sig.) ⑥ Shipper Name & # | Date/Time |
| Seal # at'chd by ○ | Recvd. Intact by ○ | Seal # at'chd by ○ | Recvd. Intact by ○ |

**KNOWN HAZARDS ASSOCIATED WITH SAMPLES**

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt -0.3NF °C

# ROGERS & CALLCOTT LABORATORY SERVICES

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Greenville, SC 29607

# CHAIN OF CUSTODY RECORD



Client Name BRPC

Address

Cinton, NC

Report To:

Telephone No. FAX No.

PO No. Project No. 2004-159

| Rogers & Callcott Lab No. | Yr/Mo Date | Time | Sample Description | Total Number of Containers | PARAMETERS: Total Metals* | Total Hg | NO2, Cl, F, TDS, SO4 | Phenols | TOC | TOX® | NO3 | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC 69199 | 11/23 | 1540 | MW-18 | 1 | 1 | | | | | | | *Ag, Ba, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, N, K, |
| 69200 | | 1543 | | 1 | | 1 | | | | | | Se, Ag, Na, Zn |
| 69201 | | 1544 | | 1 | | | 1 | | | | | ®Subcontract |
| 69202 | | 1553 | | 1 | | | | 1 | | | | |
| 69203 | | 1600 | | 1 | | | | | 1 | | | |
| 69204 | | 1601 | | 1 | | | | | | 1 | | |
| 69205 | | 1604 | | 1 | | | | | | | 1 | |

| | Filtered (Yes/No) | Cooled (Yes/No) | Container Type (P/G) | Container Volume | Sample Type (Grab/Composite) | Sample Source (WW, GW, DW, Other) | Sample Source Chlorinated (Yes/No) | Lab Receipt Cl2 Check | Lab Receipt pH Check |
|---|---|---|---|---|---|---|---|---|---|
| | N | Y | P | 500 mL | G | GW | N | NA | <2 LH |
| | | | P | 250 mL | | | | NA | <2 |
| | | | P | 1/2 gal | | | | NA | NA |
| | | | G | 1 L | | | | NA | <2 |
| | | | P | 250 mL | | | | NA | <2 |
| | | | G | 500 mL | | | | | |
| | | | P | 250 mL | | | | NA | <2 |
| Preserved (Code) | | | B | B | A | C | I | B | C |

A-None D-NaOH G-Boric Acid
B-$HNO_3$ E-HCL H-Ascorbic Acid
C-$H_2SO_4$ F-$Na_2S_2O_3$ I-phosphoric

| SAMPLER Relinquished by (Sig.) | Date/Time | Received by (Sig.) | Date/Time |
|---|---|---|---|
| ① | 11/24/09 1545 | ② Shipper Name & # | 11.24.09 1545 |
| Relinquished by (Sig.) ③ | Date/Time | Received by (Sig.) ④ Shipper Name & # | Date/Time |
| Relinquished by (Sig.) ⑤ | Date/Time | Received by (Sig.) ⑥ Shipper Name & # | Date/Time |
| Seal # at'chd by ○ Recvd. Intact by ○ | | Seal # at'chd by ○ Recvd. Intact by ○ | |

**KNOWN HAZARDS ASSOCIATED WITH SAMPLES**

Temperature of blank or representative sample
At time of collection °C
At time of lab receipt -0.1 NF °C

# ROGERS & CALLCOTT LABORATORY SERVICES

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Greenville, SC 29607

# CHAIN OF CUSTODY RECORD



Client Name BRPC

Address

Canton, NC

Report To:

Telephone No. FAX No.

PO No. Project No. 2004-159

| Rogers & Callcott Lab No. | Yr.09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS: Total Metals* | Total Hg | NO2, Cl, F, TDS, SO4 | Phenols | TOC | TOX② | NO3 | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Filtered (Yes/No) | | N | N | N | N | N | N | N | |
| | | | Cooled (Yes/No) | | Y | Y | Y | Y | Y | Y | Y | |
| | | | Container Type (P/G) | | P | P | P | G | P | G | P | |
| | | | Container Volume | | 500 mL | 250 mL | ½ gal | 1 L | 250 mL | 500 mL | 250 mL | |
| | | | Sample Type (Grab/Composite) | | G | G | G | G | G | G | G | |
| | | | Sample Source (WW, GW, DW, Other) | | GW | GW | GW | GW | GW | GW | GW | |
| | | | Sample Source Chlorinated (Yes/No) | | N | N | N | N | N | | N | |
| | | | Lab Receipt Cl2 Check | | NA | NA | NA | NA | NA | / | NA | |
| | | | Lab Receipt pH Check TW 11/25/09 | | <2 | <2 | NA | <2 | <2 | / | <2 | |
| | | | Preserved (Code) | | B | B | A | C | I | B | C | |
| AC | 09206 | 11/23 | 1830 MW-6 | 7 | 1-P1 | 1-P2 | 1 | 1-B | 1-P | 1-N | 1-G2 | *See pg1 |
| | 09207 | 11/24 | 0837 MW-8 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | ② Subcontract |
| | 09208 | 11/24 | 0900 MW-7A | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 09209 | 11/24 | 0917 MW-5A | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 09210 | 11/24 | 0937 MW-4 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 09211 | 11/24 | 0953 MW-1A | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 09212 | 11/24 | 1010 MW-9 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |

Preserved (Code): A–None, B–$HNO_3$, C–$H_2SO_4$, D–NaOH, E–HCl, F–$Na_2S_2O_3$, G–Boric Acid, H–Ascorbic Acid, I– Phosphoric

COMMENTS:

| SAMPLER Relinquished by (Sig.) | Date/Time | Received by (Sig.) | Date/Time |
|---|---|---|---|
| ① | 11/24/09 1545 | ② Shipper Name & # | 11.24.09 1545 |
| Relinquished by (Sig.) ③ | Date/Time | Received by (Sig.) ④ Shipper Name & # | Date/Time |
| Relinquished by (Sig.) ⑤ | Date/Time | Received by (Sig.) ⑥ Shipper Name & # | Date/Time |
| Seal # at'chd by ○ Recvd. Intact by ○ | | Seal # at'chd by ○ Recvd. Intact by ○ | |

KNOWN HAZARDS ASSOCIATED WITH SAMPLES

Temperature of blank or representative sample
At time of collection °C
At time of lab receipt -0.1 NF °C

# ROGERS & CALLCOTT LABORATORY SERVICES

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Greenville, SC 29607

## CHAIN OF CUSTODY RECORD



Client Name BRPC

Address

Canton, NC

Report To:

Telephone No. FAX No.

PO No. Project No. 2004-159

| Rogers & Callcott Lab No. | Yr. 09 Date | Time | Sample Description | Total Number of Containers | PARAMETERS: Total Metals* | Total Hg | NO2, Cl, F, TAS, SO4 | Phenols | TOC | TOX ⊛ | NO3 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Filtered (Yes/No) | | N | | | | | | |
| | | | Cooled (Yes/No) | | Y | | | | | | |
| | | | Container Type (P/G) | | P | P | P | G | P | G | P |
| | | | Container Volume | | 500 mL | 250 mL | 1/2 gal | 1 L | 250 mL | 500 mL | 250 mL |
| | | | Sample Type (Grab/Composite) | | G | | | | | | |
| | | | Sample Source (WW, GW, DW, Other) | | GW | | | | | | |
| | | | Sample Source Chlorinated (Yes/No) | | N | | | | | | |
| | | | Lab Receipt Cl2 Check | | NA | NA | NA | NA | NA | NA | NA |
| | | | Lab Receipt pH Check | | <2 | <2 | NA | <2 * | <2 | | <2 |
| | | | Preserved (Code) | | B | B | A | C | I | B | C |
| AC | 69213 | 11/24 | 1039 MW-3A | 7 | 1-N | 1-N | 1 | 1-G | 1-P | 1-N | 1-H |
| | 69214 | 11/24 | 1147 MW-12 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 69215 | 11/24 | 1207 MW-2 | 7 | 1 | 1 | 1 | 1 * | 1 * | 1 | 1 |

A–None D–NaOH G–Boric Acid
B–$HNO_3$ E–HCL H–Ascorbic Acid
C–$H_2SO_4$ F–$Na_2S_2O_3$ I– phosphoric

**COMMENTS:**

* See pg 1
⊛ Subcontract

* phenol - additional $H_2SO_4$ added
TOC - Bench. 11-24-09 mw

| SAMPLER Relinquished by (Sig.) | Date/Time | Received by (Sig.) | Date/Time |
|---|---|---|---|
| ① | 11/24/09 1545 | ② Shipper Name & # | 11.24.09 1545 |
| Relinquished by (Sig.) ③ | Date/Time | Received by (Sig.) ④ Shipper Name & # | Date/Time |
| Relinquished by (Sig.) ⑤ | Date/Time | Received by (Sig.) ⑥ Shipper Name & # | Date/Time |
| Seal # at'chd by ○ Recvd. Intact by ○ | | Seal # at'chd by ○ Recvd. Intact by ○ | |

**KNOWN HAZARDS ASSOCIATED WITH SAMPLES**

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt -0.1 NF °C

ROGERS & CALLCOTT
LABORATORY SERVICES
P.O. Box 5655, Greenville, SC 29606
Phone (864) 232-1556 • Fax (864) 232-6140

J. L. Rogers, P.E.
F. D. Callcott, P.E.
S. W. Avery, Jr.,
Laboratory Director

# FIELD DATA REPORT

CLIENT: BRPC
ATTENTION: _____
SAMPLE LOCATION: Pigeon River - Down
DATE: 11/16/09
TIME: 1130

TODAY THE FOLLOWING FIELD MEASUREMENTS WERE PERFORMED AS A PART OF YOUR COMPLIANCE MONITORING:

| | | |
|---|---|---|
| pH | 7.56 | units |
| TEMPERATURE | 12.9 | °C |
| DISSOLVED OXYGEN | _____ | mg/L |
| CHLORINE RESIDUAL | _____ | mg/L |
| SPECIFIC CONDUCTIVITY | 197.8 | umhos/cm |

COMMENTS: Turbidity: <5.0 NTU

FIELD TECHNICIAN Bradley C Sink

White — Client Yellow — File

ROGERS & CALLCOTT
LABORATORY SERVICES
P.O. Box 5655, Greenville, SC 29606
Phone (864) 232-1556 • Fax (864) 232-6140

J. L. Rogers, P.E.
F. D. Callcott, P.E.
S. W. Avery, Jr.,
Laboratory Director

# FIELD DATA REPORT

CLIENT: BRPC
ATTENTION: _____
SAMPLE LOCATION: BB-Up
DATE: 11/16/09
TIME: 1205

TODAY THE FOLLOWING FIELD MEASUREMENTS WERE PERFORMED AS A PART OF YOUR COMPLIANCE MONITORING:

| | | |
|---|---|---|
| pH | 6.61 | units |
| TEMPERATURE | 14.2 | °C |
| DISSOLVED OXYGEN | _____ | mg/L |
| CHLORINE RESIDUAL | _____ | mg/L |
| SPECIFIC CONDUCTIVITY | 64.5 | umhos/cm |

COMMENTS: Turbidity: 6.54 NTU

FIELD TECHNICIAN Brady C Sink

White — Client Yellow — File

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S. W. Avery, Jr.,
Laboratory Director

# FIELD DATA REPORT

CLIENT: BRPC
ATTENTION: _____
SAMPLE LOCATION: BB-Down
DATE: 11/16/09
TIME: 1230

TODAY THE FOLLOWING FIELD MEASUREMENTS WERE PERFORMED AS A PART OF YOUR COMPLIANCE MONITORING:

| | | |
|---|---|---|
| pH | 7.20 | units |
| TEMPERATURE | 14.3 | °C |
| DISSOLVED OXYGEN | _____ | mg/L |
| CHLORINE RESIDUAL | _____ | mg/L |
| SPECIFIC CONDUCTIVITY | 74.0 | umhos/cm |

COMMENTS: Turbidity: 6.57 NTU

FIELD TECHNICIAN Bradley C Seal

White — Client Yellow — File

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S. W. Avery, Jr.,
Laboratory Director

# FIELD DATA REPORT

CLIENT: BRPC
ATTENTION: _____
SAMPLE LOCATION: BB-3
DATE: 11/16/09
TIME: 1255

TODAY THE FOLLOWING FIELD MEASUREMENTS WERE PERFORMED AS A PART OF YOUR COMPLIANCE MONITORING:

| | | |
|---|---|---|
| pH | 7.36 | units |
| TEMPERATURE | 13.7 | °C |
| DISSOLVED OXYGEN | _____ | mg/L |
| CHLORINE RESIDUAL | _____ | mg/L |
| SPECIFIC CONDUCTIVITY | 85.2 | umhos/cm |

COMMENTS: Turbidity: 6.55 NTU

FIELD TECHNICIAN Bradley C Sisk

White — Client  Yellow — File

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F. D. Callcott, P.E.
S. W. Avery, Jr.,
Laboratory Director

# FIELD DATA REPORT

CLIENT: BRPC
ATTENTION: _____
SAMPLE LOCATION: BB-4
DATE: 11/16/09
TIME: 1320

TODAY THE FOLLOWING FIELD MEASUREMENTS WERE PERFORMED AS A PART OF YOUR COMPLIANCE MONITORING:

| | | |
|---|---|---|
| pH | 7.58 | units |
| TEMPERATURE | 14.6 | °C |
| DISSOLVED OXYGEN | _____ | mg/L |
| CHLORINE RESIDUAL | _____ | mg/L |
| SPECIFIC CONDUCTIVITY | 99.5 | umhos/cm |

COMMENTS: Turbidity: 8.33 NTU

FIELD TECHNICIAN Bradley C Sink

White — Client Yellow — File

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S. W. Avery, Jr.,
Laboratory Director

# FIELD DATA REPORT

CLIENT: BRPC
ATTENTION: _____
SAMPLE LOCATION: Pigeon River - Up
DATE: 11/16/05
TIME: 1340

TODAY THE FOLLOWING FIELD MEASUREMENTS WERE PERFORMED AS A PART OF YOUR COMPLIANCE MONITORING:

| | | |
|---|---|---|
| pH | 7.72 | units |
| TEMPERATURE | 12.8 | °C |
| DISSOLVED OXYGEN | _____ | mg/L |
| CHLORINE RESIDUAL | _____ | mg/L |
| SPECIFIC CONDUCTIVITY | 195.3 | umhos/cm |

COMMENTS: Turbidity: <5.0 NTU

FIELD TECHNICIAN Bradley C Sisk

White — Client  Yellow — File

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S. W. Avery, Jr.,
Laboratory Director

# FIELD DATA REPORT

CLIENT: BRPC
ATTENTION: _____
SAMPLE LOCATION: Underflow Drain
DATE: 11/16/09
TIME: 1540

TODAY THE FOLLOWING FIELD MEASUREMENTS WERE PERFORMED AS A PART OF YOUR COMPLIANCE MONITORING:

| | | |
|---|---|---|
| pH | 7.06 | units |
| TEMPERATURE | 20.4 | °C |
| DISSOLVED OXYGEN | _____ | mg/L |
| CHLORINE RESIDUAL | _____ | mg/L |
| SPECIFIC CONDUCTIVITY | 78.0 | umhos/cm |

COMMENTS: Turbidity: <5.0 NTU

FIELD TECHNICIAN Bradley C Seal

White — Client Yellow — File

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F. D. Callcott, P.E.
S. W. Avery, Jr.,
Laboratory Director

# FIELD DATA REPORT

CLIENT: BRPC
ATTENTION: _____
SAMPLE LOCATION: Landfill Leachate
DATE: 11/16/09
TIME: 1615

TODAY THE FOLLOWING FIELD MEASUREMENTS WERE PERFORMED AS A PART OF YOUR COMPLIANCE MONITORING:

| | | |
|---|---|---|
| pH | 7.99 | units |
| TEMPERATURE | 22.4 | °C |
| DISSOLVED OXYGEN | _____ | mg/L |
| CHLORINE RESIDUAL | _____ | mg/L |
| SPECIFIC CONDUCTIVITY | 18,950 | umhos/cm |

COMMENTS: Turbidity: 56.0 NTU

FIELD TECHNICIAN Bradley C Sisk

White — Client  Yellow — File

# Rogers and Callcott Engineers

**Client:** BRPC **Date:** 11/16/09

**Field Meter Calibration Record**

## Conductivity Meter Calibration
## EPA 9050A

Meter Make / Model: YSI EC300 SN: 3C00660 Probe: 3004M 06322575

Time: 0755 Analyst: BCS Cell Constant 5.16

| Chemical Inventory | Conc. of Standard, µmhos/cm @25°C | Actual Reading of Standard, µmhos/cm | Actual Reading of Standard, @ Temperature, °C |
|---|---|---|---|
| 09-08-02 | 9.52 | 10.8 | 21.2 |
| 09-08-10 | 986 | 98.7 | 21.2 |
| 09-08-12 | 999 | 999 | 21.2 |
| 09-08-13 | SSS conc: 447 | 431.4 | 21.2 |

Temperature compensation for conductivity meter : 6.0

Note: Temperature is recorded from the conductivity meter for reporting purposes.

## pH Meter Calibration
## EPA 9040C

Meter Make / Model: YSI pH100 SN: 3C03192 Probe: YSI 605377 08M

Time: 0750 Analyst: BCS Slope: 100.8

| Chemical Inventory | Conc. of Buffer, units | Actual Reading of Buffer, units |
|---|---|---|
| BCS 11/16/09 09-08-22 09-06-26 | 4.0 | 4.00 |
| 09-08-10 09-06-28 | 7.0 | 7.00 |
| 09-08-12 08-11-29 | 10.0 | 10.01 |
| 09-08-13 09-06-48 | SSS conc: 4.00 | 3.98 |

Temperature compensation for pH meter : +0.1

Note: Temperature is recorded from the conductivity meter for reporting purposes.

## Turbidity Meter Calibration
## Field Screen Method

Meter Make / Model: Hach 2100P SN: 08120C033298 Date of most recent calibration: 11/16/09 & BCS 11/16/09

Time: 0800 Analyst: BCS

| Chemical Inventory | Assigned Conc. of Standard, NTU | Actual Reading of Standard, NTU |
|---|---|---|
| 09-01-22 | 4.10 | 4.47 |
| 09-01-23 | 49.0 | 45.1 |
| 09-01-24 | 455 | 466 |

Reviewed by: _____ Date: _____

Revised 03/18/09

# Rogers and Callcott Engineers

**Continuing Calibration Verification**

**Client:** BRPC **Date:** 11/16/09

## Conductivity Meter
## EPA 9050A

Meter Make / Model: YSI EC300 SN: 5C00660 Probe: 300-4M 0652575

| Time | Analyst | Conc. of Standard, µmhos/cm @25°C | Actual Reading of Standard, µmhos/cm |
|---|---|---|---|
| 1200 | BCS | 98.6 ~~7.00~~ BCS 11/16/09 | 98.9 @ 19.6 °C |
| 1635 | BCS | 999 | 994 @ 21.4 °C |

## pH Meter
## EPA 9040C

Meter Make / Model: YSI pH100 SN: 5C03192 Probe: YSI 605377 08M

| Time | Analyst | Conc. of Buffer, units | Actual Reading of Buffer, units |
|---|---|---|---|
| 1200 | BCS | 7.00 | 7.05 |
| 1635 | BCS | 4.00 | ~~4.07~~ BCS 11/16/09 4.02 |

## Turbidity Meter
## Field Screen Method

Meter Make / Model: Hach 2100P SN: 08120C033298

| Time | Analyst | Assigned Conc. of Standard, NTU | Actual Reading of Standard, NTU |
|---|---|---|---|
| 1200 | BCS | 49.0 | 51.0 |
| 1635 | BCS | 455 | 464 |

## Field Duplicate

Well ID: Pigeon River - Up

| Time | Analyst | Conductivity, µmhos/cm | pH, units | Turbidity, NTU | Temperature, °C |
|---|---|---|---|---|---|
| 1340 | BCS | 197.4 | 7.66 | <5.0 | 12.2 |

Note: Refer to daily calibration log for instrument calibration and chemical inventory information / documentation.

Reviewed by: _____ Date: _____

Meter Set 1

# Rogers and Callcott Engineers

**Continuing Calibration Verification**

**Client:** BRPC Date: 11/24/09

## Conductivity Meter
## EPA 9050A

Meter Make / Model: YSI EC300 SN: 5C00660 Probe: 300-4M 06J2575

| Time | Analyst | Conc. of Standard, µmhos/cm @25°C | Actual Reading of Standard, µmhos/cm |
|---|---|---|---|
| 1146 | BCS | 98.6 | 94.9 @ 15.9 °C |
| 1615 | BCS | 999 | 1032 @ 19.2 °C |

## pH Meter
## EPA 9040C

Meter Make / Model: YSI pH100 SN: 5C03192 Probe: YSI 605377 095

| Time | Analyst | Conc. of Buffer, units | Actual Reading of Buffer, units |
|---|---|---|---|
| 1146 | BCS | 7.00 | 7.00 |
| 1615 | BCS | 10.00 | 10.08 |

## Turbidity Meter
## Field Screen Method

Meter Make / Model: Hach 2100P SN: 08120C033298

| Time | Analyst | Assigned Conc. of Standard, NTU | Actual Reading of Standard, NTU |
|---|---|---|---|
| 1146 | BCS | 49.0 | 50.4 |
| 1615 | BCS | 455 | 461 |

## Field Duplicate

Well ID: MW-12

| Time | Analyst | Conductivity, µmhos/cm | pH, units | Turbidity, NTU | Temperature, °C |
|---|---|---|---|---|---|
| 1144 | BCS | 225.0 | 5.99 | <5.0 | 14.5 |

Note: Refer to daily calibration log for instrument calibration and chemical inventory information / documentation.

Reviewed by: _____ Date: _____

Revised 03/18/09

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-17 ☐ Development ☒ Purging

Date: 11/19/09 Field Personnel: BCS/RGM

Site Name/Location: BRPC



For Low Flow Sampling: Page NA of ____

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☒ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☐ Peristaltic | ☐ Disposable Poly |
| ☐ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 42.03 @ 1048
Total Depth of Well (b): 65.60
Length of Water Column in Well (b-a): 23.57
Well Casing Diameter (inches): 4"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | 15.4 | |
| 3 Casing Vol | 46.2 | 77.0 |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) / No
Bollards? (Yes) / No
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay) / _____
Well Integrity Satisfactory? (Okay) / _____
Vegetation: Overgrown/ Moderate/ (Light) None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/19/09 | 1102 | NA | 2.5 | 42.03 | 0.6 | 5.99 | 15.9 | 126.6 | NA | NA | NA | 1 | <5.00 | |
| 11/19/09 | 1108 | 1 | 2.5 | 49.94 | 15.4 | 5.94 | 14.7 | 73.1 | NA | NA | NA | 1 | <5.0 | |
| 11/19/09 | 1114 | 2 | 2.5 | 53.46 | 30.8 | 5.85 | 14.6 | 54.1 | NA | NA | NA | 1 | <5.0 | |
| 11/19/09 | 1120 | 3 | 2.5 | 56.65 | 46.2 | 5.90 | 14.5 | 57.9 | NA | NA | NA | 1 | <5.0 | |
| 11/19/09 | 1128 | 4 | 2.0 | 53.80 | 61.6 | 5.91 | 14.7 | 65.3 | NA | NA | NA | 1 | <5.0 | |
| 11/19/09 | 1135 | 5 | 2.0 | 52.86 | 77.0 | 5.90 | 14.5 | 70.7 | NA | NA | NA | 1 | <5.0 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

* *Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Weather Conditions/~Temp: Clear 60's °F

Well Yield: (Low/ Moderate/ (High)) Sample Clarity: Clear (<5.0 NTU) Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time 1136

Comments _____

Reviewed by: _____ Date: _____

Revised 2/3/09

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.



Well Number: MW-11 ☐ Development ☒ Purging

Date: 11/19/09 Field Personnel: BKS, RGM

Site Name/Location: BRPC

For Low Flow Sampling: Page 1 of 1

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☐ Peristaltic | ☐ Disposable Poly |
| ☒ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 29.94 @ 1034
Total Depth of Well (b): 35.23
Length of Water Column in Well (b-a): 5.29
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / (mL's) Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | NA | |
| 3 Casing Vol | | 7000 |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) / No
Bollards? Yes / (No)
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay) / _____
Well Integrity Satisfactory? (Okay) / _____
Vegetation: Overgrown/ Moderate/ (Light)/ None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1150 | NA | 200 | 29.94 | 0.0 | 5.78 | 14.7 | 171.4 | NA | NA | NA | 1 | 438 | |
| | 1155 | 1 | 200 | 30.23 | 1000 | 5.77 | 14.6 | 164.6 | NA | NA | NA | 1 | 296 | |
| | 1200 | 2 | 200 | 30.31 | 2000 | 5.78 | 14.8 | 169.4 | NA | NA | NA | 1 | 119 | |
| | 1205 | 3 | 200 | 30.34 | 3000 | 5.81 | 14.8 | 177.8 | NA | NA | NA | 1 | 39.0 | |
| | 1210 | 4 | 200 | 30.39 | 4000 | 5.83 | 14.7 | 186.8 | NA | NA | NA | 1 | 23.0 | |
| | 1215 | 5 | 200 | 30.44 | 5000 | 5.85 | 14.6 | 195.0 | NA | NA | NA | 1 | 17.2 | |
| | 1220 | 6 | 200 | 30.44 | 6000 | 5.86 | 14.8 | 198.3 | NA | NA | NA | 1 | 13.4 | |
| | 1225 | 7 | 200 | 30.44 | 7000 | 5.87 | 14.9 | 201.4 | NA | NA | NA | 1 | 9.81 | |

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Weather Conditions/~Temp: Clear / 60's °F

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time Metals - 1226 / Hg - 1229 / Cl, F, $NO_2$, $SO_4$ TDS - 1230 / Phenols - 1241 / TOC - 1248 / TOX - 1250 / $NO_3$ - 1253

Comments Pump in well @ 1040

Reviewed by: _____ Date: _____

Well Number: MW-15 ☐ Development ☒ Purging

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-19-09 Field Personnel: BCS / RGM



Site Name/Location: BRPC CANTON NC

For Low Flow Sampling: Page 1 of 2

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☐ Peristaltic | ☐ Disposable Poly |
| ☒ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 30.32 @ 1318
Total Depth of Well (b): 43.75
Length of Water Column in Well (b-a): 13.43
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / (mL) Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | NA | |
| 3 Casing Vol | | 7600 3600 R 11/19/09 |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) / No
Bollards? (Yes) / No
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay) / _____
Well Integrity Satisfactory? (Okay) _____
Vegetation: Overgrown/ Moderate/ (Light/ ) None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-19-09 | 1347 | NA | 200 | 30.32 | 0 | 6.04 | 14.3 | 48.2 | NA | NA | NA | 1 | 56.7 | |
| 11-19-09 | 1352 | 1 | 200 | 29.74 | 1000 | 6.25 | 13.7 | 47.5 | NA | NA | NA | 1 | 202 | |
| 11-19-09 | 1357 | 2 | 200 | 29.96 | 2000 | 6.22 | 13.4 | 46.7 | NA | NA | NA | 1 | 240 | |
| 11-19-09 Rm 11/19/09 LF | 1302 | 3 | 200 | 29.83 | 3000 | 6.28 | 13.6 | 46.6 | NA | NA | NA | 1 | 215 | |
| 11-19-09 | 1412 | 4 | 120 | 29.78 | 3600 | 6.29 | 13.8 | 46.7 | NA | NA | NA | 1 | 378 | |
| 11-19-09 | 1710* | NA | 200 | 30.30 | 4600 | 6.27 | 12.3 | 46.1 | NA | NA | NA | 1 | 21.9 | |
| 11-19-09 | 1715 | 1 | 200 | 30.18 | 5600 | 6.31 | 12.4 | 46.2 | NA | NA | NA | 1 | 21.8 | |
| 11-19-09 | 1720 | 2 | 200 | 30.24 | 6600 | 6.30 | 12.4 | 45.6 | NA | NA | NA | 1 | 21.8 | |

Weather Conditions/~Temp: Clear / 60's °F

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ (High)) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time see pg 2

Comments Pump in well @ 1325 / Pulled Pump @ 1412 (discovered leak) / Pump in well ~1505 / *Returned to purge

Reviewed by: _____ Date: _____

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-15 ☐ Development ☒ Purging

Date: 11-19-09 Field Personnel: BCS 11/19/09 BRGM

Site Name/Location: BRPC CANTON NC



For Low Flow Sampling: Page 2 of 2

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☐ Peristaltic | ☐ Disposable Poly |
| ☒ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 30.32 @ 1318
Total Depth of Well (b): 43.75
Length of Water Column in Well (b-a): 13.43
Well Casing Diameter (inches): 2
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | N | |
| 3 Casing Vol | A | 7600 |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) No
Bollards? (Yes) No
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay) / _____
Well Integrity Satisfactory? (Okay) / _____
Vegetation: Overgrown/ Moderate/ (Light)/ None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-19-09 | 1725 | 3 | 200 | 30.26 | 7600 | 6.31 | 12.3 | 45.9 | NA | NA | NA | 1 | 21.8 | |
| | | | | | | | | | | | | | | |
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* *Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Weather Conditions/~Temp: Clear / 40's °F

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time Metals-1728 / Hg-1731 / Cl, F, $NO_2$, $SO_4$ TDS-1733 / Phenols-1743 BCS 11/19/09 / TOC-1750 / TOX-1752 / $NO_2$, $NO_3$-1755

Comments _____

Reviewed by: _____ Date: _____

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-20 ☐ Development ☒ Purging

Date: 11/19/09 Field Personnel: BCS/RGM

Site Name/Location: SRPC



For Low Flow Sampling: Page NA of ____

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☒ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☐ Peristaltic | ☐ Disposable Poly |
| ☐ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 43.62 @ 1428
Total Depth of Well (b): 61.57
Length of Water Column in Well (b-a): 17.95
Well Casing Diameter (inches): 4"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | (Gallons) / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | 11.7 | |
| 3 Casing Vol | 35.1 | 35.1 |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) / No
Bollards? (Yes) / No
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay) / _____
Well Integrity Satisfactory? (Okay) / _____
Vegetation: Overgrown/ Moderate/ (Light)/ None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-19-09 | 1434 | NA | 1.5 | 43.62 | 0.0 | 6.18 | 16.9 | 69.2 | NA | NA | NA | 1 | <5.0 | |
| 11-19-09 | 1442 | 1 | 1.5 | 45.53 | 11.7 | 6.35 | 14.9 | 84.7 | NA | NA | NA | 1 | 5.36 | |
| 11-19-09 | 1450 | 2 | 1.5 | 45.93 | 23.4 | 6.40 | 14.6 | 88.6 | NA | NA | NA | 1 | <5.0 | |
| 11-19-09 | 1458 | 3 | 1.5 | 46.25 | 35.1 | 6.43 | 14.5 | 91.4 | NA | NA | NA | 1 | <5.0 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |

Weather Conditions/~Temp: Clear / 60's °F

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ (Moderate)/ High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time 1500

Comments _____

Reviewed by: _____ Date: _____

Revised 2/3/09

Well Number: MW-10 ☐ Development ☑ Purging

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-19-09 Field Personnel: BCS/RGM



Site Name/Location: BRPC, CANTON, NC

For Low Flow Sampling: Page N/A of ____

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☒ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☐ Peristaltic | ☐ Disposable Poly |
| ☐ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 37.83 @1519
Total Depth of Well (b): 74.51
Length of Water Column in Well (b-a): 36.68
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | 6.0 | |
| 3 Casing Vol | 18.0 | 4.5 |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) / No
Bollards? (Yes) / No
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay)/ _____
Well Integrity Satisfactory? (Okay)/ _____
Vegetation: Overgrown/ Moderate/ (Light) None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-19-09 | 1525 | NA | 1.5 | 37.83 | 0.0 | 6.15 | 14.1 | 36.1 | NA | NA | NA | 1 | 8.85 | |
| 11-19-09 | 1529 | 1 | 1.5 | NA | 1.5 | 6.06 | 13.1 | 34.0 | NA | NA | NA | 1 | 36.1 | |
| 11-19-09 | 1533 | 2 | 1.5 | NA | 3.0 | 6.03 | 13.0 | 34.1 | NA | NA | NA | 1 | 13.7 | |
| 11-19-09 | 1536 | 3 | 1.5 | NA | 4.5 | 6.03 | 12.9 | 33.8 | NA | NA | NA | 1 | 7.26 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Weather Conditions/~Temp: Clear / 60's °F

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ (Moderate)/ High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time 1538

Comments _____

Reviewed by: _____ Date: _____

Revised 2/3/09

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-11 ☐ Development ☒ Purging

Date: 11-19-09 Field Personnel: BCS | RGM

Site Name/Location: BRPC, CANTON NC



For Low Flow Sampling: Page 1 of 1 NA BCS 11/19/09

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☒ Peristaltic | ☐ Disposable Poly |
| ☐ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 10.77 @ 1546
Total Depth of Well (b): 21.70
Length of Water Column in Well (b-a): 10.93
Well Casing Diameter (inches): 2
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | 1.8 | |
| 3 Casing Vol | 5.4 | 7.2 |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) / No
Bollards? (Yes) / (No) 2m 11-19-09
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay) _____
Well Integrity Satisfactory? (Okay) _____
Vegetation: Overgrown/ Moderate/ (Light)/ None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-19-09 | 1547 | NA | 0.12 | 10.77 | 0.0 | 5.48 | 13.7 | 49.3 | NA | NA | NA | 1 | <5.0 | |
| 11-19-09 | 1602 | 1 | 0.12 | 12.45 | 1.8 | 5.47 | 13.9 | 48.7 | NA | NA | NA | 1 | <5.0 | |
| 11-19-09 | 1617 | 2 | 0.12 | 12.30 | 3.6 | 5.41 | 13.6 | 54.2 | NA | NA | NA | 1 | <5.0 | |
| 11-19-09 | 1632 | 3 | 0.12 | 12.12 | 5.4 | 5.39 | 13.4 | 54.6 | NA | NA | NA | 1 | <5.0 | |
| 11-19-09 | 1647 | 4 | 0.12 | 12.03 | 7.2 | 5.37 | 13.4 | 55.1 | NA | NA | NA | 1 | <5.0 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Weather Conditions/~Temp: Clear / 50's °F

Well Yield: (Low/ Moderate/ (High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time 1649

Comments _____

Reviewed by: _____ Date: _____

Revised 2/3/09

# Rogers and Callcott Engineers

**Field Meter Calibration Record**

**Client:** BRPC **Date:** 11/19/09

## Conductivity Meter Calibration
## EPA 9050A

Meter Make / Model: YSI EC300 SN: 5C00660 Probe: 300-4M 06525T5

Time: 0750 Analyst: BCS Cell Constant 5.20

| Chemical Inventory | Conc. of Standard, µmhos/cm @25°C | | Actual Reading of Standard, µmhos/cm | Actual Reading of Standard, @ Temperature, °C |
|---|---|---|---|---|
| 09-08-02 | 9.52 | | 10.6 | 17.5 |
| 09-08-10 | 98.6 | | 98.3 | 17.3 |
| 09-08-12 | 999 | | 1009 | 17.3 |
| 09-08-13 | SSS conc: | 447 | 437.6 | 17.6 |

Temperature compensation for conductivity meter : 0.0

Note: Temperature is recorded from the conductivity meter for reporting purposes.

## pH Meter Calibration
## EPA 9040C

Meter Make / Model: YSI pH100 SN: 5C03192 Probe: YSI 603277 095

Time: 0755 Analyst: BCS Slope: 99.1

| Chemical Inventory | Conc. of Buffer, units | | Actual Reading of Buffer, units |
|---|---|---|---|
| 09-06-26 | 4.0 | | 4.00 |
| 09-06-28 | 7.0 | | 7.04 |
| 08-11-29 | 10.0 | | 10.06 |
| 09-06-48 | SSS conc: | 4.00 | 397 |

Temperature compensation for pH meter : NA

Note: Temperature is recorded from the conductivity meter for reporting purposes.

## Turbidity Meter Calibration
## Field Screen Method

Meter Make / Model: Hach 2100P SN: 09120C035298 Date of most recent calibration: 11/6/09

Time: 0800 Analyst: BCS

| Chemical Inventory | Assigned Conc. of Standard, NTU | Actual Reading of Standard, NTU |
|---|---|---|
| 09-01-22 | 4.10 | 4.37 |
| 09-01-23 | 49.0 | 51.7 |
| 09-01-24 | 455 | 467 |

Reviewed by: _____ Date: _____

Revised 03/18/09

# Rogers and Callcott Engineers

**Continuing Calibration Verification**

**Client:** BRPC **Date:** 11/19/09

## Conductivity Meter
## EPA 9050A

Meter Make / Model: YSI EC300 SN: 5C00660 Probe: 3004M 06525575

| Time | Analyst | Conc. of Standard, µmhos/cm @25°C | Actual Reading of Standard, µmhos/cm |
|---|---|---|---|
| 1345 | BCS | 98.6 | 100.8 @ 19.0 °C |
| 1745 | BCS | 999 | 976 @ 14.2 °C |

## pH Meter
## EPA 9040C

Meter Make / Model: YSI pH100 SN: 5C03192 Probe: YSI 605377 09J

| Time | Analyst | Conc. of Buffer, units | Actual Reading of Buffer, units |
|---|---|---|---|
| 1345 | BCS | 7.00 | 7.07 |
| 1745 | BCS | 10.00 | 10.08 |

## Turbidity Meter
## Field Screen Method

Meter Make / Model: Hach 2100P SN: 081200033298

| Time | Analyst | Assigned Conc. of Standard, NTU | Actual Reading of Standard, NTU |
|---|---|---|---|
| 1345 | BCS | 49.0 | 50.7 |
| 1745 | BCS | BCS 11/19/09 ~~444~~ 455 | 466 |

## Field Duplicate

Well ID: MW-15

| Time | Analyst | Conductivity, µmhos/cm | pH, units | Turbidity, NTU | Temperature, °C |
|---|---|---|---|---|---|
| 1725 | BCS | 45.8 | 6.31 | 21.7 | 12.3 |

Note: Refer to daily calibration log for instrument calibration and chemical inventory information / documentation.

Reviewed by: _____ Date: _____

Well Number: MW-13 ☐ Development ☒ Purging

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-23-09 Field Personnel: JAF

Page 1 of 2

Site Name/Location: BRPC

For Low Flow Sampling: Page NA of NA

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☒ Peristaltic | ☐ Disposable Poly |
| ☐ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 17.93 @ 1222
Total Depth of Well (b): 36.79
Length of Water Column in Well (b-a): 18.86
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / (mLs) Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | NA | |
| 3 Casing Vol | NA | 3750 mL |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) / No
Bollards? (Yes) / No
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay) / _____
Well Integrity Satisfactory? (Okay) / _____
Vegetation: Overgrown/ Moderate/ (Light) None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (mL) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-23-09 | 1227 | NA | 150 | 17.93 | 0.0 | 6.64 | 14.7 | 2204 | NA | NA | NA | 1 | 37.1 | |
| | 1232 | 1 | 150 | 18.43 | 750 | 6.76 | 14.4 | 2151 | | | | 1 | 24.2 | |
| | 1237 | 2 | 150 | 18.46 | 1500 | 6.79 | 14.3 | 2146 | | | | 1 | 21.9 | |
| | 1242 | 3 | 150 | 18.46 | 2250 | 6.79 | 14.1 | 2147 | | | | 1 | 11.1 | |
| | 1247 | 4 | 150 | 18.46 | 3000 | 6.80 | 14.2 | 2137 | | | | 1 | 7.97 | |
| | 1252 | 5 | 150 | 18.48 | 3750 | 6.82 | 14.2 | 2125 | | | | 1 | 6.90 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Weather Conditions/~Temp: Cloudy / 50s °F

* *Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: none $Fe^{+2}$ mg/L= NA

Sample Collection Time Total Metals - 1255 Hg - 1259 Chlor/Fluor/TDS/$NO_2$/$SO_4$ - 1301 $NO_3$ - 1315
Phenols - 1319 TOC - 1329 TOX - 1331

Comments _____

Reviewed by: _____ Date: _____

Revised 2/3/09

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-21 ☐ Development ☒ Purging

Date: 11-23-09 Field Personnel: JHF

Site Name/Location: BRPC



For Low Flow Sampling: Page NA of

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☒ Peristaltic | ☐ Disposable Poly |
| ☐ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 10.20 @ 1350
Total Depth of Well (b): 28.76
Length of Water Column in Well (b-a): 18.56
Well Casing Diameter (inches): 4"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mL Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | NA | |
| 3 Casing Vol | NA | 2700 |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) / No
Bollards? (Yes) / No
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay) / _____
Well Integrity Satisfactory? (Okay) / _____
Vegetation: Overgrown/ Moderate/ (Light) None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (mL/min) | Water Level, (feet) | Water Volume Removed (gal) or (mL) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-23-09 | 1355 | NA | 180 | 10.20 | 0.0 | 6.56 | 15.1 | 2264 | NA | NA | NA | 1 | 18.3 | |
| | 1400 | 1 | 180 | 10.46 | 900 | 6.65 | 14.8 | 2272 | | | | 1 | 8.17 | |
| | 1405 | 2 | 180 | 10.58 | 1800 | 6.64 | 14.8 | 2253 | | | | 1 | ~~4.7~~ JNF 11-23-09 <5.0 | |
| | 1410 | 3 | 180 | 10.67 | 2700 | 6.66 | 14.7 | 2245 | | | | 1 | 5.94 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Weather Conditions/~Temp: Mostly Cloudy / 50s °F

* *Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: none $Fe^{+2}$ mg/L= NA

Sample Collection Time Total Metals - 1414 Hg - 1416 Chloride/Fluoride/TDS/$NO_2$/$SO_4$ - 1418

$NO_3$ - 1429 Phenols - 1431 TOC - 1441 TOX - 1443

Comments _____

Reviewed by: _____ Date: _____

# Rogers and Callcott Engineers

**Client:** BAPC **Date:** 11-23-09

**Field Meter Calibration Record**

## Conductivity Meter Calibration
**EPA 9050A**

Meter Make / Model: YSI EC300 SN: JC00 262 Probe: 08 L100071

Time: JHF ~~701~~ 0854 Analyst: JHF Cell Constant

11-23-09

| Chemical Inventory | Conc. of Standard, µmhos/cm @25°C | | Actual Reading of Standard, µmhos/cm | Actual Reading of Standard, @ Temperature, °C |
|---|---|---|---|---|
| 09-08-02 | 9,52 | | 9,5 | 21,9 |
| 09-08-10 | 98,6 | | 98,5 | 22.1 |
| 09-08-12 | 999 | | 1002 | 21,9 |
| 09-08-13 | SSS conc: | 447 | 437.8 | 21.9 |

Temperature compensation for conductivity meter : 0.0

Note: Temperature is recorded from the conductivity meter for reporting purposes.

## pH Meter Calibration
**EPA 9040C**

Meter Make / Model: YSI pH100 SN: JC00 942 Probe: 605377 08F

Time: 0852 Analyst: JHF Slope: 101.1

| Chemical Inventory | Conc. of Buffer, units | | Actual Reading of Buffer, units |
|---|---|---|---|
| 09-06-26 | 4.0 | | 4.00 |
| 09-06-28 | 7.0 | | 7.01 |
| 08-11-29 | 10.0 | | 10,02 |
| 09-06-48 | SSS conc: | 4.0 | ~~9.5~~ 3.98 |

JHF 11-23-09

Temperature compensation for pH meter : 20.1

Note: Temperature is recorded from the conductivity meter for reporting purposes.

## Turbidity Meter Calibration
**Field Screen Method**

Meter Make / Model: Hach 2100P SN: 980700018869 Date of most recent calibration: 11-6-09

Time: 0823 Analyst: JHF

| Chemical Inventory | Assigned Conc. of Standard, NTU | Actual Reading of Standard, NTU |
|---|---|---|
| 09-01-22 | 3.71 | 3,65 |
| 09-01-23 | 44.1 | 43.7 |
| 09-01-24 | 435 | 435 |

Reviewed by: Date:

Revised 03/18/09

Well Number: MW-16D ☐ Development ☒ Purging

Date: 11/23/09 Field Personnel: BCS/RGM

Site Name/Location: BRPC

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Page 2 of 3 BCS 11/23/09

For Low Flow Sampling: Page 1 of 1

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☐ Peristaltic | ☐ Disposable Poly |
| ☒ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 62.89 @ 1213
Total Depth of Well (b): 111.13
Length of Water Column in Well (b-a): 48.24
Well Casing Diameter (inches): 4"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | NA | |
| 3 Casing Vol | | 1500 |

**Circle One that Applies**

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/23/09 | 1224 | NA | 100 | 62.89 | 0.0 | 6.82 | 13.8 | 1248 | NA | NA | NA | 2 | <5.0 | |
| 11/23/09 | 1229 | 1 | 100 | 62.89 | 500 | 6.74 | 13.8 | 1327 | NA | NA | NA | 2 | <5.0 | |
| 11/23/09 | 1234 | 2 | 100 | 62.96 | 1000 | 6.73 | 14.0 | 1347 | NA | NA | NA | 2 | <5.0 | |
| 11/23/09 | 1239 | 3 | 100 | 63.01 | 1500 | 6.73 | 14.1 | 1355 | NA | NA | NA | 2 | <5.0 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | Dorothy C. Sick 11/23/09 | | | | | | | | |
| | | | | | | | | | | | | | | |

Weather Conditions/~Temp: Cloudy / 50's °F

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time Metals - 1240 / Hg - 1246 / TDS - 1248 / Diesels - 1311 / TOC - 1324 / TOX - 1328 / NO$_3$ - 1332

Comments _____

Reviewed by: _____ Date: _____

Revised 2/3/09

Well Number: MW-16S ☐ Development ☒ Purging

Date: 11/23/09 Field Personnel: BCS/RGM

Site Name/Location: BRPC

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Page 2 of 2 BCS 11/23/09

For Low Flow Sampling: Page 1 of 1

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☐ Peristaltic | ☐ Disposable Poly |
| ☒ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 59.61 @ 1243
Total Depth of Well (b): ~~70.58~~ 70.38 ~~to~~ BCS 11/23/09
Length of Water Column in Well (b-a): 10.77
Well Casing Diameter (inches): 4"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mL's Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | NA | |
| 3 Casing Vol | | 3000 |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) / No
Bollards? (Yes) / No
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay) / _____
Well Integrity Satisfactory? (Okay) / _____
Vegetation: Overgrown/ (Moderate)/ Light/ None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/23/09 | 1400 | NA | 200 | 59.61 | 0.0 | 6.55 | 14.4 | 3679 | NA | NA | NA | 3 | <5.0 | |
| 11/23/09 | 1405 | 1 | 200 | 59.94 | 1000 | 6.52 | 14.3 | 3523 | NA | NA | NA | 3 | <5.0 | |
| 11/23/09 | 1410 | 2 | 200 | 60.01 | 2000 | 6.52 | 14.3 | 3517 | NA | NA | NA | 3 | <5.0 | |
| 11/23/09 | 1415 | 3 | 200 | 60.12 | 3000 | 6.51 | 14.3 | 3805 | NA | NA | NA | 3 | <5.0 | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |

Robert May 11/23/09

Weather Conditions/~Temp: Cloudy / 50's °F

* *Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ (Moderate)/ High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time Metals - 1415 / Hg - 1420 / TDS - 1422 / Phenols - 1432 / TOC - 1436 / TOX - 1433 / NO3 - 1441

Comments _____

Reviewed by: _____ Date: _____

Revised 2/3/09

# Rogers and Callcott Engineers

**Field Meter Calibration Record**

**Client:** BRPC **Date:** 11/23/09

## Conductivity Meter Calibration
## EPA 9050A

Meter Make / Model: YSI EC300 SN: 5E00660 Probe: 300-4M 0652575

Time: 0800 Analyst: BCS Cell Constant 5.27

| Chemical Inventory | Conc. of Standard, µmhos/cm @25°C | | Actual Reading of Standard, µmhos/cm | Actual Reading of Standard, @ Temperature, °C |
|---|---|---|---|---|
| 09-08-02 | 9.52 | | 9.5 | 21.1 |
| 09-08-10 | 98.6 | | 97.3 | 21.5 |
| 09-08-12 | 999 | | 1012 | 21.2 |
| 09-08-13 | SSS conc: | 447 | 440.1 | 21.3 |

Temperature compensation for conductivity meter : 0.0

Note: Temperature is recorded from the conductivity meter for reporting purposes.

## pH Meter Calibration
## EPA 9040C

Meter Make / Model: YSI pH100 SN: 5E03192 Probe: YSI 605377 095

Time: 0805 Analyst: BCS Slope: 99.8

| Chemical Inventory | Conc. of Buffer, units | | Actual Reading of Buffer, units |
|---|---|---|---|
| 09-06-26 | 4.0 | | 4.00 |
| 09-06-28 | 7.0 | | 6.98 |
| 08-11-29 | 10.0 | | 10.02 |
| 09-06-48 | SSS conc: | 4.0 | 3.95 |

Temperature compensation for pH meter : NA

Note: Temperature is recorded from the conductivity meter for reporting purposes.

## Turbidity Meter Calibration
## Field Screen Method

Meter Make / Model: Hach 2100P SN: 08120C033298 Date of most recent calibration: 11/6/09

Time: 0810 Analyst: BCS

| Chemical Inventory | Assigned Conc. of Standard, NTU | Actual Reading of Standard, NTU |
|---|---|---|
| 090122 | 4.10 | 4.21 |
| 090123 | 49.0 | 50.9 |
| 090124 | 455 | 465 |

Reviewed by: _____ Date: _____

Revised 03/18/09

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-9 ☐ Development ☒ Purging

Date: 11/23/09 Field Personnel: BCS/RGM

Site Name/Location: BRPC



For Low Flow Sampling: Page NA of ____

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☒ Peristaltic | ☐ Disposable Poly |
| ☐ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 9.94 @ 1050
Total Depth of Well (b): 29.20
Length of Water Column in Well (b-a): 19.26
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | 3.1 | |
| 3 Casing Vol | 9.3 | 9.3 |

**Circle One that Applies**

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/23/09 | 1058 | NA | 0.25 | 9.94 | 0.0 | 5.47 | 15.1 | 78.2 | NA | NA | NA | 1 | 14.8 | |
| 11/23/09 | 1110 | 1 | 0.25 | 18.67 | 3.1 | 6.12 | 15.2 | 70.6 | NA | NA | NA | 1 | <5.0 | |
| 11/23/09 | 1122 | 2 | 0.25 | 23.45 | 6.2 | 6.17 | 15.1 | 72.1 | NA | NA | NA | 1 | 6.08 | |
| 11/23/09 | 1134 | 3 | 0.25 | Dry | 9.3 | 6.18 | 14.9 | 77.8 | NA | NA | NA | 1 | 7.63 | Dry |
| 11/24/09 | 0837 | NA | NA | NA | Sample | 6.50 | 14.2 | 78.9 | NA | NA | NA | 1 | <5.0 | Sample |
| | | | | | | Brandy C Link 11/24/09 | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

* *Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Weather Conditions/~Temp: Cloudy / 50's °F

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time 08:37

Comments Purged Readings = Meter Set 1 / Sample Readings = Meter Set 1

Reviewed by: _____ Date: _____

Well Number: MW-18 ☐ Development ☒ Purging

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-23-09 Field Personnel: BCS/RGM

Page 1 of 5

Site Name/Location: BRPC CANTON NC

For Low Flow Sampling: Page 1 of 1

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☐ Peristaltic | ☐ Disposable Poly |
| ☒ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 77.02 @ 1515
Total Depth of Well (b): 112.50
Length of Water Column in Well (b-a): 35.48
Well Casing Diameter (inches): 4
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / (mLs) Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | N A | |
| 3 Casing Vol | | 2400 |

**Circle One that Applies**

Measuring Point: (TOC) Ground Surface
Riser Material: (PVC) Steel / Teflon
Steel Protective Casing? (Yes) No
Bollards? (Yes) No
Flush Mount? Yes (No)
Well Locked? (Yes) No
Well Pad Condition? (Okay)
Well Integrity Satisfactory? (Okay) Broken Hinge
Vegetation: Overgrown/ Moderate (Light) None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-23-09 | 1523 | NA | 160 | 77.02 | 0.0 ~~800~~ R 11-23-09 | 6.70 | 14.5 | 2086 | NA | NA | NA | 1 | <5.0 | |
| 11-23-09 | 1528 | 1 | 160 | 77.16 | 800 | 6.63 | 14.4 | 2096 | NA | NA | NA | 1 | <5.0 | |
| 11-23-09 | 1533 | 2 | 160 | 77.33 | 1600 | 6.59 | 14.4 | 2085 | NA | NA | NA | 2 | <5.0 | |
| 11-23-09 | 1538 | 3 | 160 | 77.44 | 2400 | 6.59 | 14.4 | 2055 | NA | NA | NA | 2 | <5.0 | |
| | | | | | | | | | | | | | | |
| | | | | | | Robert A Meyer | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Weather Conditions/~Temp: Clear / 50's °F

** Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time TOTAL METALS: 1540 Hg: ~~1443~~ 1543 R= 11/24/09 Cl, F, NO, $SO_4$, TDS: ~~1444~~ 1544 R= 11/24/09 PHENOLS: 1553 TOC: 1600 TOX: 1601

$NO_3$: 1604

Comments Purged & Sample Readings = Meter Set 1

Reviewed by: _____ Date: _____

Revised 2/3/09

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-7A ☐ Development ☒ Purging

Date: 11/23/09 Field Personnel: BCS

Site Name/Location: BRPC



For Low Flow Sampling: Page NA of ____

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☐ Peristaltic | ☒ Disposable Poly |
| ☐ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 9.39 @ 1824
Total Depth of Well (b): 26.40
Length of Water Column in Well (b-a): 17.01
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | 2.8 | |
| 3 Casing Vol | 8.4 | 8.4 |

**Circle One that Applies**

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal), or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/23/09 | 1836 | NA | NA | 9.39 | 0.0 | 6.36 | 14.2 | 218.1 | NA | NA | NA | 1 | 9.59 | |
| 11/23/09 | 1838 | 1 | NA | NA | 2.8 | 5.80 | 14.4 | 439.0 | NA | NA | NA | 1 | 135 | |
| 11/23/09 | 1843 | 2 | NA | NA | 5.6 | 5.71 BCS 7.7 11/23/09 | 14.2 | 464.2 | NA | NA | NA | 1 | 168 | |
| 11/23/09 | 1848 | 3 | NA | Dry | 8.4 | 5.80 | 14.5 | 413.3 | NA | NA | NA | 1 | 129 | Dry |
| 11/24/09 | 0900 | NA | NA | NA | Sample | 5.79 | 14.1 | 306.3 | NA | NA | NA | 1 | <5.0 | Sample |
| | | | | | | Bradley C Sisl 11/24/09 | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Weather Conditions/~Temp: Clear 1405 °F

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time 0900

Comments Purged Readings = Meter Set 1 / Sample Readings = Meter Set 2 BCS 11/24/09

Reviewed by: _____ Date: _____

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

BCS 11/24/09 Page 4 of 5

Well Number: MW-3A ☐ Development ☒ Purging

Date: 11-24-09 Field Personnel: BCS/RGM

Site Name/Location: BRPC CANTON NC

For Low Flow Sampling: Page N/A of N/A

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☒ Peristaltic | ☐ Disposable Poly |
| ☐ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 7.31 @ 734
Total Depth of Well (b): 20.41
Length of Water Column in Well (b-a): 13.1
Well Casing Diameter (inches): 2
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | 2.1 | |
| 3 Casing Vol | 6.3 | 3.1 |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) / No
Bollards? (Yes) / No
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay) / _____
Well Integrity Satisfactory? (Okay) / _____
Vegetation: Overgrown / Moderate / Light / None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ± 0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-24-09 | 0754 | NA | 0.2 | 7.31 | 0.0 | 6.83 | 13.6 | 1074 | NA | NA | NA | 1 | 42.2 | |
| 11/24/09 | 0804 | 1 | 0.2 | 15.90 | 2.1 | 6.74 | 13.6 | 849 | NA | NA | NA | 1 | 64.7 | |
| 11/24/09 | 0809 | 2 | 0.2 | Dry | 3.1 | 6.70 | 13.1 | 852 | NA | NA | NA | 1 | 66.7 | |
| 11/24/09 | 1039 | NA | NA | NA | Sample | 6.78 | 14.1 | 903 | NA | NA | NA | 1 | 7.97 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Bcs 11/24/09

Weather Conditions/~Temp: Clear / 40s °F

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= N/A

Sample Collection Time 1039

Comments Purged & Sample readings w/ Meter Set1

Reviewed by: _____ Date: _____

Revised 2/3/09

Well Number: MW-12 ☐ Development ☒ Purging

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-24-09 Field Personnel: BCS/RGM



Site Name/Location: BRPC CANTON NC

For Low Flow Sampling: Page N of A

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☒ Peristaltic | ☐ Disposable Poly |
| ☐ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 10.20 @ 1103
Total Depth of Well (b): 29.06
Length of Water Column in Well (b-a): 18.86
Well Casing Diameter (inches): 2
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | 3.1 | |
| 3 Casing Vol | 9.3 | 9.3 |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) / No
Bollards? (Yes) / No
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay) / _____
Well Integrity Satisfactory? (Okay) / _____
Vegetation: Overgrown / (Moderate) / Light / None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-24-09 | 1108 | NA | 0.26 | 10.20 | 0.0 | 6.03 | 14.5 | 227.8 | NA | NA | NA | 1 | <5.0 | |
| 11-24-09 | 1120 | 1 | 0.26 | 11.21 | 3.1 | 6.02 | 14.5 | 223.3 | NA | ND | NA | 1 | <5.0 | |
| 11-24-09 | 1132 | 2 | 0.26 | 11.12 | 6.2 | 5.99 | 14.8 | 217.5 | NA | NA | NA | 1 | <5.0 | |
| 11-24-09 | 1144 | 3 | 0.26 | 11.10 | 9.3 | 6.00 | 14.6 | 224.1 | NA | NA | NA | 1 | <5.0 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |

Robert Mgn 11/24/09

Weather Conditions/~Temp: Clear / 50s °F

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low / Moderate / High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time 1147

Comments Purged & Sample Readings = Meter Set 1

Reviewed by: _____ Date: _____

Revised 2/3/09

Meter Set 1

# Rogers and Callcott Engineers

**Continuing Calibration Verification**

**Client:** BRPC **Date:** 11/23/09

## Conductivity Meter
## EPA 9050A

Meter Make / Model: YSI EC300 SN: ~~[illegible]~~ SC00660 BCS 11/23/09 Probe: 300-4M 0652575

| Time | Analyst | Conc. of Standard, µmhos/cm @25°C | Actual Reading of Standard, µmhos/cm |
|---|---|---|---|
| 1252 | BCS | 98.6 | 96.2 @ 16.6 °C |
| 1855 | BCS | 999 | 1003 @ 14.1 °C |

## pH Meter
## EPA 9040C

Meter Make / Model: YSI pH100 SN: SC03192 Probe: YSI 605377 093

| Time | Analyst | Conc. of Buffer, units | Actual Reading of Buffer, units |
|---|---|---|---|
| 1252 | BCS | 7.00 | 7.07 |
| 1855 | BCS | 10.00 | 10.04 |

## Turbidity Meter
## Field Screen Method

Meter Make / Model: Hach 2100P SN: 081200033298

| Time | Analyst | Assigned Conc. of Standard, NTU | Actual Reading of Standard, NTU |
|---|---|---|---|
| 1252 | BCS | 49.0 | 50.7 |
| 1855 | BCS | 455 | 467 |

## Field Duplicate

Well ID: MW-16S

| Time | Analyst | Conductivity, µmhos/cm | pH, units | Turbidity, NTU | Temperature, °C |
|---|---|---|---|---|---|
| 1415 | BCS | 3799 | 6.54 | <5.0 | 14.3 |

Note: Refer to daily calibration log for instrument calibration and chemical inventory information / documentation.

Reviewed by: _____ Date: _____

Revised 03/18/09

Meter Set 1

# Rogers and Callcott Engineers

**Field Meter Calibration Record**

**Client:** BRPC **Date:** 11/23/09

## Conductivity Meter Calibration
## EPA 9050A

Meter Make / Model: YSI EC300 SN: 5C00660 Probe: 300-4M 06525875

Time: 0800 Analyst: BCS Cell Constant 5.27

| Chemical Inventory | Conc. of Standard, µmhos/cm @25°C | | Actual Reading of Standard, µmhos/cm | Actual Reading of Standard, @ Temperature, °C |
|---|---|---|---|---|
| 09-08-02 | 9.52 | | 9.5 | 21.1 |
| 09-08-10 | 98.6 | | 97.3 | 21.5 |
| 09-08-12 | 999 | | 1012 | 21.2 |
| 09-08-13 | SSS conc: | 447 | 440.1 | 21.3 |

Temperature compensation for conductivity meter : 0.0

Note: Temperature is recorded from the conductivity meter for reporting purposes.

## pH Meter Calibration
## EPA 9040C

Meter Make / Model: YSI pH100 SN: 5C03192 Probe: YSI 605377 095

Time: 0805 Analyst: BCS Slope: 99.8

| Chemical Inventory | Conc. of Buffer, units | | Actual Reading of Buffer, units |
|---|---|---|---|
| 09-06-26 | 4.0 | | 4.00 |
| 09-06-28 | 7.0 | | 6.98 |
| 08-11-29 | 10.0 | | 10.02 |
| 09-06-48 | SSS conc: | 4.0 | 3.95 |

Temperature compensation for pH meter : NA

Note: Temperature is recorded from the conductivity meter for reporting purposes.

## Turbidity Meter Calibration
## Field Screen Method

Meter Make / Model: Hach 2100P SN: 08120C033298 Date of most recent calibration: 11/6/09

Time: 0810 Analyst: BCS

| Chemical Inventory | Assigned Conc. of Standard, NTU | Actual Reading of Standard, NTU |
|---|---|---|
| 090122 | 4.10 | 4.21 |
| 090123 | 49.0 | 50.9 |
| 090124 | 455 | 465 |

Reviewed by: _____ Date: _____

Revised 03/18/09

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-1A ☐ Development ☒ Purging

Date: 11/23/09 Field Personnel: BCS

Site Name/Location: BRPC

BCS 11/23/09



For Low Flow Sampling: Page NA of ____

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☐ Peristaltic | ☒ Disposable Poly |
| ☐ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 62.59 @ 1537
Total Depth of Well (b): 71.86
Length of Water Column in Well (b-a): 9.27
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | 1.5 | |
| 3 Casing Vol | 4.5 | 2.25 |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) / No
Bollards? (Yes) / No
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay) / _____
Well Integrity Satisfactory? (Okay) / _____
Vegetation: Overgrown/ Moderate/ (Slight)/ None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ± 0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/23/09 | 1542 | NA | NA | 62.59 | 0.0 | 6.39 | 13.1 | 50.0 | NA | NA | NA | 1 | 33.7 | |
| 11/23/09 | 1546 | 1 | NA | NA | 1.5 | 6.27 | 13.1 | 37.3 | NA | NA | NA | 1 | 312 | |
| 11/23/09 | 1550 | 2 | NA | Dry | 2.25 | 6.16 | 13.0 | 34.2 | NA | NA | NA | 1 | 191 | Dry |
| 11/24/09 | 0953 | NA | NA | NA | Sample | 6.26 | 13.6 | 46.8 | NA | NA | NA | 1 | 22.9 | Sample |
| | | | | | | | | | | | | | | |
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Bradley C. Call 11/24/09

Weather Conditions/~Temp: Clear / 50's °F

* *Subjective (1) None (2) Slight (3) Moderate (4) Strong*

Well Yield: (Low)/ Moderate/ High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time 0953

Comments Purged Readings = Meter Set 2 / Sample Readings = Meter Set 1

Reviewed by: _____ Date: _____

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-9

☐ Development
☒ Purging

Date: 11/23/09 Field Personnel: BCS

Site Name/Location: BRPC

BCS 11/23/09
Page ~~3~~ 2 of 6

For Low Flow Sampling: Page ~~NA~~ of

**Method of Well Evacuation**

Pump
- ☐ Grundfos
- ☐ Submersible
- ☐ Peristaltic
- ☐ Bladder
- ☐ Waterra
- ☐ Continuous (Recovery Well)
- ☐ _____

Bailer
- ☐ Non Disposable Teflon
- ☐ Disposable Teflon
- ☒ Disposable Poly
- ☐ Dedicated Teflon
- ☐ Dedicated PVC

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 40.81 @1559
Total Depth of Well (b): 66.84
Length of Water Column in Well (b-a): 26.03
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | 4.2 | |
| 3 Casing Vol | 12.6 | 4.2 |

**Circle One that Applies**

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown / Moderate / Light / None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ± 0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/23/09 | 1605 | NA | NA | 40.81 | 0.0 | 6.11 | 13.6 | 90.4 | NA | NA | NA | 1 | 28.1 | |
| 11/23/09 | 1617 | 1 | NA | Dry | 4.2 | 5.70 | 13.6 | 57.1 | NA | NA | NA | 1 | 18.8 | Dry |
| 11/24/09 | 1010 | NA | NA | NA | Sample | BCS 11/24/09 ~~6~~ 5.96 | 13.5 | 36.0 | NA | NA | NA | 1 | 7.09 | Sample |
| | | | | | | | | | NA | NA | NA | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |

Bradley C Sist 11/24/09

Weather Conditions/~Temp: Clear 150's °F

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low / Moderate / High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time 1010

Comments Purged readings = Meter Set 2 / Sample readings = Meter Set 1

Reviewed by: _____ Date: _____

Revised 2/3/09

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-2 ☐ Development ☒ Purging

Date: 11/23/09 Field Personnel: BCS

Site Name/Location: BRPC

BCS 11/23/09

Page 43 of 6

For Low Flow Sampling: Page NA of

**Method of Well Evacuation**

Pump
- ☐ Grundfos
- ☐ Submersible
- ☐ Peristaltic
- ☐ Bladder
- ☐ Waterra
- ☐ Continuous (Recovery Well)
- ☐ _____

Bailer
- ☐ Non Disposable Teflon
- ☐ Disposable Teflon
- ☒ Disposable Poly
- ☐ Dedicated Teflon
- ☐ Dedicated PVC

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 3.78 @ 1628
Total Depth of Well (b): 11.84
Length of Water Column in Well (b-a): 8.06
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | 1.3 | |
| 3 Casing Vol | 3.9 | 1.3 |

**Circle One that Applies**

Measuring Point: TOC / Ground Surface
Riser Material: PVC / Steel / Teflon
Steel Protective Casing? Yes / No
Bollards? Yes / No
Flush Mount? Yes / No
Well Locked? Yes / No
Well Pad Condition? Okay / _____
Well Integrity Satisfactory? Okay / _____
Vegetation: Overgrown/ Moderate/ Light/ None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/23/09 | 1632 | NA | NA | 3.78 | 0.0 | 10.00 | 13.4 | 8460 | NA | NA | NA | 1 | 10.8 | |
| 11/23/09 | 1634 | 1 | NA | Dry | 1.3 | 10.01 | 13.0 | 8410 | NA | NA | NA | 1 | 10.7 | Dry |
| 11/24/09 | 1207 | NA | NA | NA | Sample | 10.10 | 14.6 | 8600 | NA | NA | NA | 1 | 11.2 | Sample |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |

Bradley C. Smith 11/24/09

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Weather Conditions/~Temp: Clear / 40's °F

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time 1207

Comments Purged Readings = Meter Set 2 / Sample Readings = Meter Set 1

Reviewed by: _____ Date: _____

Revised 2/3/09

Well Number: MW-4 ☐ Development ☒ Purging

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11/23/09 Field Personnel: BCS/RCM



Site Name/Location: BRPC

For Low Flow Sampling: Page NA of ___

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☒ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☐ Peristaltic | ☐ Disposable Poly |
| ☐ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 59.92 @ 1649
Total Depth of Well (b): 83.89
Length of Water Column in Well (b-a): 23.97
Well Casing Diameter (inches): 2"
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | ~~Gallons~~ / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | 3.9 | |
| 3 Casing Vol | 11.7 | 15.6 |

**Circle One that Applies**

Measuring Point: ~~TOC~~ / Ground Surface
Riser Material: ~~PVC~~ / Steel / Teflon
Steel Protective Casing? ~~Yes~~ / No
Bollards? ~~Yes~~ / No
Flush Mount? Yes / ~~No~~
Well Locked? ~~Yes~~ / No
Well Pad Condition? ~~Okay~~ / _____
Well Integrity Satisfactory? ~~Okay~~ / _____
Vegetation: Overgrown/ ~~Moderate~~/ Light/ None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed ~~(gal)~~ or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-23-09 | ~~11-23-09~~ 1657 | NA | ~~11/23/09~~ 3.9 NA | 59.92 | 0.0 | 6.48 | 13.6 | 842 | NA | NA | NA | 1 | 25.5 | |
| 11-23-09 | 1705 | 1 | NA | NA | 3.9 | 6.44 | 14.3 | 837 | NA | NA | NA | 2 | 200 | |
| 11-23-09 | 1713 | 2 | NA | NA | 7.8 | 6.38 | 14.3 | 1347 | NA | NA | NA | 2 | 100 | |
| 11-23-09 | 1721 | 3 | NA | NA | 11.7 | 6.43 | 14.4 | 1368 | NA | NA | NA | 2 | 248 | |
| 11-23-09 | 1729 | 4 | NA | NA | 15.6 | 6.43 | 14.4 | 1446 | NA | NA | NA | 2 | 236 | |
| ~~11-24-09~~ | 0937 | NA | ~NA | ~NA | Sample | ~NA | ~NA | ~NA | ~NA | ~NA | ~NA | 2 | 49.3 | |
| | | | | | | | Robert Mayer | | 11/24/09 | | | | | |
| | | | | | | | | | | | | | | |

Weather Conditions/~Temp: clear / 40 °F

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/~~High~~) Sample Clarity: Slightly Turbid Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time 0937

Comments Purged Readings = Meter Set 2 / Sample Readings = Meter Set 1

Reviewed by: _____ Date: _____

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-5A ☐ Development ☒ Purging

Date: 11-23-09 Field Personnel: BCS / RGM

Site Name/Location: BRPC CANTON NC



For Low Flow Sampling: Page N/A of ____

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☐ Peristaltic | ☒ Disposable Poly |
| ☐ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 36.34 @ 1737
Total Depth of Well (b): 44.50
Length of Water Column in Well (b-a): 8.16
Well Casing Diameter (inches): 2
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | 1.3 | |
| 3 Casing Vol | 3.9 | 1.3 |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) / No
Bollards? (Yes) / No
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay) / _____
Well Integrity Satisfactory? (Okay) / _____
Vegetation: Overgrown/ Moderate/ (Light)/ None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-23-09 | 1742 | NA | NA | 36.34 | 0.0 | 5.55 | 14.7 | 439.6 | NA | NA | NA | 1 | 21.5 | |
| 11-23-09 | 1744 | 1 | NA | DRY | 1.3 | 5.53 | 15.8 | 423.3 | NA | NA | NA | 1 | 65.6 | Dry |
| 11/24/09 | 0917 | NA | NA | NA | Sample | 5.53 | 15.7 | 387.9 | NA | NA | NA | 1 | <5.0 | Sample |
| | | | | | | | | | | | | | | |
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Robert Hagan 11/24/09

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Weather Conditions/~Temp: Clear / 40's °F

Well Yield: (Low)/ Moderate/ High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time 0917

Comments Purged Readings = Meter Set 2 / Sample Readings = Meter Set 1

Reviewed by: _____ Date: _____

Revised 2/3/09

# FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-6 ☐ Development ☒ Purging

Date: 11-23-09 Field Personnel: BCS | RGM

Site Name/Location: BRPC CANTON NC

BCS 11/23/09 Page 2 of 6

For Low Flow Sampling: Page N of A

**Method of Well Evacuation**

| Pump | Bailer |
|---|---|
| ☐ Grundfos | ☐ Non Disposable Teflon |
| ☐ Submersible | ☐ Disposable Teflon |
| ☒ Peristaltic | ☐ Disposable Poly |
| ☐ Bladder | ☐ Dedicated Teflon |
| ☐ Waterra | ☐ Dedicated PVC |
| ☐ Continuous (Recovery Well) | |
| ☐ _____ | |

One Volume Multiplier (gal/ft) = $\pi r^2 h$ (7.48) (r in feet)
Well Diameter (gal/ft.) 1"= 0.041; 2"= 0.163; 3"= 0.367
4"= 0.653; 6"= 1.470

**Water Volume Calculations**

Initial Depth to Ground Water (a): 13.06 @ 1745
Total Depth of Well (b): 20.67
Length of Water Column in Well (b-a): 7.61
Well Casing Diameter (inches): 2
Depth to Immiscible Layer: NA

| # of Casings | Gallons to be Removed | Gallons / mLs Removed |
|---|---|---|
| 1 Casing Vol = (b-a) x Multiplier | 1.2 | |
| 3 Casing Vol | 3.6 | 6.0 |

**Circle One that Applies**

Measuring Point: (TOC) / Ground Surface
Riser Material: (PVC) / Steel / Teflon
Steel Protective Casing? (Yes) / No
Bollards? (Yes) / No
Flush Mount? Yes / (No)
Well Locked? (Yes) / No
Well Pad Condition? (Okay) / _____
Well Integrity Satisfactory? (Okay) / No Cap
Vegetation: Overgrown / (Moderate) / Light / None

## Water Removal / Field Analysis Data

| Date | Time | Increment | Removal Rate (gal/m) or (ml/m) | Water Level, (feet) | Water Volume Removed (gal) or (ml) | pH (units) ±0.1-Stable | Temp (°C) | Conductivity (uS/cm) 10%-Stable | Dissolved Oxygen (mg/L) | Hydrogen Sulfide (ppm) | ORP (mVolts) | Odor (Subj*) | Turbidity (NTU) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11-23-09 | 1757 | NA | 0.24 | 13.06 | 0.0 | 5.74 | 13.9 | 334.6 | NA | NA | NA | 1 | 56.6 | |
| 11-23-09 | 1802 | 1 | 0.24 | 14.40 | 1.2 | 5.70 | 14.8 | 360.5 | NA | NA | NA | 1 | 6.55 | |
| 11-23-09 | 1807 | 2 | 0.24 | 14.86 | 2.4 | 5.91 | 14.7 | 272.1 | NA | NA | NA | 1 | 8.74 | |
| 11-23-09 | 1812 | 3 | 0.24 | 14.92 | 3.6 | 5.65 | 14.8 | 454.4 | NA | NA | NA | 1 | <5.0 | |
| 11-23-09 | 1818 | 4 | 0.24 | 14.50 | 4.8 | 5.67 | 14.7 | 452.1 | NA | NA | NA | 1 | <5.0 | |
| 11-23-09 | 1824 | 5 | 0.24 | 14.36 | 6.0 | 5.67 | 15.0 | 485.0 | NA | NA | NA | 1 | <5.0 | |
| | | | | | | | | Robert Morgan | | 11/24/09 | | | | |
| | | | | | | | | | | | | | | |

Weather Conditions/~Temp: Clear / 40's °F

* Subjective (1) None (2) Slight (3) Moderate (4) Strong

Well Yield: (Low/ Moderate/ High) Sample Clarity: Clear Precipitate: None $Fe^{+2}$ mg/L= NA

Sample Collection Time 1830

Comments Purged readings - Meter Set 2 / Sample readings - Meter Set 2

Reviewed by: _____ Date: _____

Revised 2/3/09

Meter Set 2

# Rogers and Callcott Engineers

**Field Meter Calibration Record**

**Client:** BRPC **Date:** 11-23-09

## Conductivity Meter Calibration
**EPA 9050A**

Meter Make / Model: YSI EC300 SN: JC00262 Probe: 08L100071

Time: JHF ~~701~~ 0854 Analyst: JHF Cell Constant 5.15

11-23-09

| Chemical Inventory | Conc. of Standard, µmhos/cm @25°C | | Actual Reading of Standard, µmhos/cm | Actual Reading of Standard, @ Temperature, °C |
|---|---|---|---|---|
| 09-08-02 | 9.52 | | 9.5 | 21.9 |
| 09-08-10 | 98.6 | | 98.5 | 22.1 |
| 09-08-12 | 999 | | 1002 | 21.9 |
| 09-08-13 | SSS conc: | 447 | 437.8 | 21.9 |

Temperature compensation for conductivity meter : 0.0

Note: Temperature is recorded from the conductivity meter for reporting purposes.

## pH Meter Calibration
**EPA 9040C**

Meter Make / Model: YSI pH100 SN: JC00942 Probe: 605377 08F

Time: 0852 Analyst: JHF Slope: 101.1

| Chemical Inventory | Conc. of Buffer, units | | Actual Reading of Buffer, units |
|---|---|---|---|
| 09-08-26 | 4.0 | | 4.00 |
| 09-06-28 | 7.0 | | 7.01 |
| 08-11-29 | 10.0 | | 10.02 |
| 09-06-48 | SSS conc: | 4.0 | ~~4.5~~ 3.98 |

JHF 11-23-09

Temperature compensation for pH meter : 40.1

Note: Temperature is recorded from the conductivity meter for reporting purposes.

## Turbidity Meter Calibration
**Field Screen Method**

Meter Make / Model: Hach 2100P SN: 980700018869 Date of most recent calibration: 11-6-09

Time: 0823 Analyst: JHF

| Chemical Inventory | Assigned Conc. of Standard, NTU | Actual Reading of Standard, NTU |
|---|---|---|
| 09-01-22 | 3.71 | 3.65 |
| 09-01-23 | 44.1 | 43.7 |
| 09-01-24 | 435 | 435 |

Reviewed by: _____ Date: _____

Revised 03/18/09

Meter Set 2

# Rogers and Callcott Engineers

**Continuing Calibration Verification**

Client: BBPC Date: 11-23-09

## Conductivity Meter
## EPA 9050A

Meter Make / Model: YSI EC300 SN: JC00262 Probe: 08L100071

| Time | Analyst | Conc. of Standard, µmhos/cm @25°C | Actual Reading of Standard, µmhos/cm |
|---|---|---|---|
| 1345 | JHF | 999 | 1007 @ 19.6 °C |
| 1905 | BCS | 98.6 | 98.8 @ 13.8 °C |

## pH Meter
## EPA 9040C

Meter Make / Model: YSI pH100 SN: JC00942 Probe: 605377 08F

| Time | Analyst | Conc. of Buffer, units | Actual Reading of Buffer, units |
|---|---|---|---|
| 1345 | JHF | 7.0 | 7.09 |
| 1905 | BCS | 10.0 | 10.06 |

## Turbidity Meter
## Field Screen Method

Meter Make / Model: Hach 2100P SN: 980700018869

| Time | Analyst | Assigned Conc. of Standard, NTU | Actual Reading of Standard, NTU |
|---|---|---|---|
| 1346 | JHF | 44.1 | 43.1 |
| 1905 | BCS | 435 | 430 |

## Field Duplicate

Well ID: MW-5A

| Time | Analyst | Conductivity, µmhos/cm | pH, units | Turbidity, NTU | Temperature, °C |
|---|---|---|---|---|---|
| 1744 | BCS | 428.6 | 5.52 | 70.6 | 15.7 |

Note: Refer to daily calibration log for instrument calibration and chemical inventory information / documentation.

Reviewed by: _____ Date: _____

Revised 03/18/09

Meter Set 1

# Rogers and Callcott Engineers

**Field Meter Calibration Record**

**Client:** BRPC **Date:** 11/24/09

## Conductivity Meter Calibration
## EPA 9050A

Meter Make / Model: YSI EC300 SN: 5C00660 Probe: 300-4M 0632575

Time: 0620 Analyst: BCS Cell Constant 5.27

| Chemical Inventory | Conc. of Standard, µmhos/cm @25°C | | Actual Reading of Standard, µmhos/cm | Actual Reading of Standard, @ Temperature, °C |
|---|---|---|---|---|
| 09-06-26 | 9.52 | | 9.7 | 20.5 |
| 09-06-28 | 98.6 | | 98.3 | 20.0 |
| 08-11-29 | 999 | | 1017 | 20.2 |
| 09-06-48 | SSS conc: | 447 | 441.5 | 20.3 |

Temperature compensation for conductivity meter : 0.0

Note: Temperature is recorded from the conductivity meter for reporting purposes.

## pH Meter Calibration
## EPA 9040C

Meter Make / Model: YSI pH100 SN: 5C03192 Probe: YSI 605377 095

Time: 0615 Analyst: BCS Slope: 98.6

| Chemical Inventory | Conc. of Buffer, units | | Actual Reading of Buffer, units |
|---|---|---|---|
| 09-08-02 | 4.0 | | 4.00 |
| 09-08-10 | 7.0 | | 7.01 |
| 09-08-12 | 10.0 | | 10.04 |
| 09-08-13 | SSS conc: | 4.00 | 3.95 |

Temperature compensation for pH meter : NA

Note: Temperature is recorded from the conductivity meter for reporting purposes.

## Turbidity Meter Calibration
## Field Screen Method

Meter Make / Model: Hach 2100P SN: 08120C033298 Date of most recent calibration: 11/6/09

Time: 0610 Analyst: BCS

| Chemical Inventory | Assigned Conc. of Standard, NTU | Actual Reading of Standard, NTU |
|---|---|---|
| 09-01-22 | 4.10 | 4.22 |
| 09-01-23 | 49.0 | 51.0 |
| 09-01-24 | 455 | 464 |

Reviewed by: _____ Date: _____

Revised 03/18/09