evergreen packaging

Canton Office
175 Main Street • Canton, NC 28716

January 26, 2012

JAG 10-12

Certified Mail #7007 3020 0001 6119 7479
Return Receipt Requested

Mr. Ervin Lane
Compliance Hydrogeologist
Division of Waste Management – Solid Waste Section
North Carolina Department of Environment
and Natural Resources
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

RECEIVED JAN 30 2012 SOLID WASTE SECTION

Subject: Landfill #6, Permit # 44-06, Groundwater and surface water sample results, November 2011

Dear Mr. Lane:

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 7, 2011 and November 11, 2011. The analytical results were received in my office on January 26, 2012.

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.
jim.giauque@everpack.com
828-646-2028 Fax 828-646-6892

Paul Dickens
Manager, Environmental
Blue Ridge Paper Products Inc.
paul.dickens@everpack.com
828-646-6141 Fax 828-646-6892

Enclosures
file:mwdata011712

ROGERS & CALLCOTT
LABORATORY SERVICES

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

AN EMPLOYEE-OWNED COMPANY

RECEIVED
JAN 26 2012
EVERGREEN PACKAGING
EHS DEPT.

Laboratory Services Report

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

Date Received: 11/08/2011
Time Received: 07:48
Date Reported: 01/05/2012

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

Sample Number	*Sample Description*
AD13273	Blue Ridge Paper Co. Pigeon R Down grab, collected on 11/07/2011 at 12:35
AD13274	Blue Ridge Paper Co. BB-Up grab, collected on 11/07/2011 at 13:05
AD13275	Blue Ridge Paper Co. BB-Down grab, collected on 11/07/2011 at 13:30
AD13276	Blue Ridge Paper Co. BB-3 grab, collected on 11/07/2011 at 13:55
AD13277	Blue Ridge Paper Co. BB-4 grab, collected on 11/07/2011 at 14:20
AD13278	Blue Ridge Paper Co. Pigeon R Up grab, collected on 11/07/2011 at 14:50

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: Amy L Ashley
authorized signature

Results reviewed by: KLH

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Sample Number	Sample Description, Date and Time Collected
AD13273	Blue Ridge Paper Co. Pigeon R Down grab, collected on 11/07/2011 at 12:35

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				11/29/2011 00:00		
Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 24 pages for TOX from Test America.							
pH (Field)	6.6	pH units		0.1	11/07/2011 12:35	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	674	umhos/cm		10	11/07/2011 12:35	JHF	SM 2510B
Temperature (Field)	15.0	degrees C		0.1	11/07/2011 12:35	JHF	SM 2550B
Turbidity (Field)	< RDL	NTU		5.0	11/07/2011 12:35	JHF	Field Screen
Nitrate-Nitrite as N	< RDL	mg/l		0.10	11/22/2011 12:07	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l		0.010	11/08/2011 16:33	REH	SM 4500NO2B
Total Dissolved Solids	428	mg/l		25	11/08/2011 15:00	JLA	SM 2540C
Total Organic Carbon	11	mg/l		0.5	11/29/2011 11:21	MSA	SM 5310C
Total Recoverable Phenols	< RDL	mg/l		0.005	11/14/2011 09:05	JLF	EPA 420.1
Chloride	58	mg/L		1.0	11/14/2011 15:43	NVQ	EPA 300.0
Fluoride	< RDL	mg/l		0.1	11/14/2011 16:11	NVQ	EPA 300.0
Sulfate	102	mg/l		1.0	11/15/2011 04:47	NVQ	EPA 300.0
Arsenic ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Barium	0.03	mg/l		0.01	11/08/2011 11:04	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/08/2011 10:20	MER	EPA 200.8
Calcium	11	mg/l		0.10	11/08/2011 14:00	KFJ	EPA 200.7
Chromium ICPMS	0.002	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Iron	0.10	mg/l		0.05	11/08/2011 11:04	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Magnesium	2.0	mg/l		0.10	11/08/2011 11:04	KFJ	EPA 200.7
Manganese ICPMS	0.036	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Mercury	< RDL	mg/l		0.0002	11/15/2011 11:28	MER	EPA 245.1
Nickel ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Potassium	8.2	mg/l		0.50	11/08/2011 11:04	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Sodium	120	mg/l		0.50	11/08/2011 11:04	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/08/2011 10:20	MER	EPA 200.8
Digestion for Mercury	Completed				11/14/2011 10:58	MER	EPA 245.1
Digestion for Metals - ICP	Completed				11/08/2011 09:04	KFJ	SM 3030C
Analysis comment for Digestion for Metals - ICP: Calcium digested 11-8-11 1306 KFJ.							
Digestion for Metals - ICPMS	Completed				11/08/2011 09:04	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13274	Blue Ridge Paper Co. BB-Up grab, collected on 11/07/2011 at 13:05

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				11/29/2011 00:00		
Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 24 pages for TOX from Test America.							
pH (Field)	7.2	pH units		0.1	11/07/2011 13:05	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	81	umhos/cm		10	11/07/2011 13:05	JHF	SM 2510B
Temperature (Field)	15.9	degrees C		0.1	11/07/2011 13:05	JHF	SM 2550B
Turbidity (Field)	< RDL	NTU		5.0	11/07/2011 13:05	JHF	Field Screen
Nitrate-Nitrite as N	0.49	mg/l		0.10	11/22/2011 12:07	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l		0.010	11/08/2011 16:33	REH	SM 4500NO2B
Total Dissolved Solids	57	mg/l		25	11/08/2011 15:00	JLA	SM 2540C
Total Organic Carbon	1.4	mg/l		0.5	11/21/2011 22:56	MSA	SM 5310C
Total Recoverable Phenols	< RDL	mg/l		0.005	11/15/2011 09:20	JLF	EPA 420.1
Chloride	3.3	mg/L		1.0	11/14/2011 14:19	NVQ	EPA 300.0
Fluoride	< RDL	mg/l		0.1	11/14/2011 14:19	NVQ	EPA 300.0
Sulfate	3.5	mg/l		1.0	11/14/2011 14:19	NVQ	EPA 300.0
Arsenic ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Barium	0.02	mg/l		0.01	11/08/2011 11:04	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/08/2011 10:20	MER	EPA 200.8
Calcium	4.6	mg/l		0.10	11/08/2011 14:00	KFJ	EPA 200.7
Chromium ICPMS	0.003	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Iron	0.25	mg/l		0.05	11/08/2011 11:04	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Magnesium	1.7	mg/l		0.10	11/08/2011 11:04	KFJ	EPA 200.7
Manganese ICPMS	0.036	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Mercury	< RDL	mg/l		0.0002	11/15/2011 11:30	MER	EPA 245.1
Nickel ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Potassium	2.8	mg/l		0.50	11/08/2011 11:04	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Sodium	4.8	mg/l		0.50	11/08/2011 11:04	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/08/2011 10:20	MER	EPA 200.8
Digestion for Mercury	Completed				11/14/2011 10:58	MER	EPA 245.1
Digestion for Metals - ICP	Completed				11/08/2011 09:04	KFJ	SM 3030C
Analysis comment for Digestion for Metals - ICP: Calcium digested 11-8-11 1306 KFJ.							
Digestion for Metals - ICPMS	Completed				11/08/2011 09:04	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13275	Blue Ridge Paper Co. BB-Down grab, collected on 11/07/2011 at 13:30

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				11/29/2011 00:00		
Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 24 pages for TOX from Test America.							
pH (Field)	7.2	pH units		0.1	11/07/2011 13:30	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	90	umhos/cm		10	11/07/2011 13:30	JHF	SM 2510B
Temperature (Field)	13.5	degrees C		0.1	11/07/2011 13:30	JHF	SM 2550B
Turbidity (Field)	< RDL	NTU		5.0	11/07/2011 13:30	JHF	Field Screen
Nitrate-Nitrite as N	0.58	mg/l		0.10	11/22/2011 12:18	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l		0.010	11/08/2011 16:33	REH	SM 4500NO2B
Total Dissolved Solids	79	mg/l		25	11/08/2011 15:00	JLA	SM 2540C
Total Organic Carbon	1.7	mg/l		0.5	11/22/2011 00:05	MSA	SM 5310C
Total Recoverable Phenols	< RDL	mg/l		0.005	11/14/2011 09:05	JLF	EPA 420.1
Chloride	5.9	mg/L		1.0	11/14/2011 19:55	NVQ	EPA 300.0
Fluoride	< RDL	mg/l		0.1	11/14/2011 19:55	NVQ	EPA 300.0
Sulfate	4.4	mg/l		1.0	11/14/2011 19:55	NVQ	EPA 300.0
Arsenic ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Barium	0.03	mg/l		0.01	11/08/2011 11:04	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/08/2011 10:20	MER	EPA 200.8
Calcium	5.8	mg/l		0.10	11/08/2011 14:00	KFJ	EPA 200.7
Chromium ICPMS	0.002	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Iron	0.32	mg/l		0.05	11/08/2011 11:04	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Magnesium	2.2	mg/l		0.10	11/08/2011 11:04	KFJ	EPA 200.7
Manganese ICPMS	0.046	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Mercury	< RDL	mg/l		0.0002	11/15/2011 11:33	MER	EPA 245.1
Nickel ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Potassium	2.9	mg/l		0.50	11/08/2011 11:04	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Sodium	6.9	mg/l		0.50	11/08/2011 14:00	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/08/2011 10:20	MER	EPA 200.8
Digestion for Mercury	Completed				11/14/2011 10:58	MER	EPA 245.1
Digestion for Metals - ICP	Completed				11/08/2011 09:04	KFJ	SM 3030C
Analysis comment for Digestion for Metals - ICP: Calcium and Sodium digested 11-8-11 1306 KFJ.							
Digestion for Metals - ICPMS	Completed				11/08/2011 09:04	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13276	Blue Ridge Paper Co. BB-3 grab, collected on 11/07/2011 at 13:55

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				11/29/2011 00:00		
Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 24 pages for TOX from Test America.							
pH (Field)	7.3	pH units		0.1	11/07/2011 13:55	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	106	umhos/cm		10	11/07/2011 13:55	JHF	SM 2510B
Temperature (Field)	12.5	degrees C		0.1	11/07/2011 13:55	JHF	SM 2550B
Turbidity (Field)	< RDL	NTU		5.0	11/07/2011 13:55	JHF	Field Screen
Nitrate-Nitrite as N	0.57	mg/l		0.10	11/22/2011 12:18	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l		0.010	11/08/2011 16:38	REH	SM 4500NO2B
Total Dissolved Solids	78	mg/l		25	11/08/2011 15:00	JLA	SM 2540C
Total Organic Carbon	1.4	mg/l		0.5	11/22/2011 00:24	MSA	SM 5310C
Total Recoverable Phenols	0.005	mg/l		0.005	11/14/2011 09:05	JLF	EPA 420.1
Chloride	6.4	mg/L		1.0	11/14/2011 18:03	NVQ	EPA 300.0
Fluoride	< RDL	mg/l		0.1	11/14/2011 18:03	NVQ	EPA 300.0
Sulfate	7.9	mg/l		1.0	11/14/2011 18:03	NVQ	EPA 300.0
Arsenic ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Barium	0.03	mg/l		0.01	11/08/2011 11:04	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/08/2011 10:20	MER	EPA 200.8
Calcium	6.2	mg/l		0.10	11/08/2011 14:00	KFJ	EPA 200.7
Chromium ICPMS	0.002	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Iron	0.24	mg/l		0.05	11/08/2011 11:04	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Magnesium	2.2	mg/l		0.10	11/08/2011 11:04	KFJ	EPA 200.7
Manganese ICPMS	0.031	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Mercury	< RDL	mg/l		0.0002	11/15/2011 11:36	MER	EPA 245.1
Nickel ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Potassium	2.9	mg/l		0.50	11/08/2011 11:04	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Sodium	11	mg/l		0.50	11/08/2011 11:04	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/08/2011 10:20	MER	EPA 200.8
Digestion for Mercury	Completed				11/14/2011 10:58	MER	EPA 245.1
Digestion for Metals - ICP	Completed				11/08/2011 09:04	KFJ	SM 3030C
Analysis comment for Digestion for Metals - ICP: Calcium digested 11-8-11 1306 KFJ.							
Digestion for Metals - ICPMS	Completed				11/08/2011 09:04	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13277	Blue Ridge Paper Co. BB-4 grab, collected on 11/07/2011 at 14:20

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				11/29/2011 00:00		
Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 24 pages for TOX from Test America.							
pH (Field)	7.4	pH units		0.1	11/07/2011 14:20	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	122	umhos/cm		10	11/07/2011 14:20	JHF	SM 2510B
Temperature (Field)	12.2	degrees C		0.1	11/07/2011 14:20	JHF	SM 2550B
Turbidity (Field)	< RDL	NTU		5.0	11/07/2011 14:20	JHF	Field Screen
Nitrate-Nitrite as N	0.48	mg/l		0.10	11/22/2011 12:29	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l		0.010	11/08/2011 16:38	REH	SM 4500NO2B
Total Dissolved Solids	92	mg/l		25	11/08/2011 15:00	JLA	SM 2540C
Total Organic Carbon	1.3	mg/l		0.5	11/22/2011 00:44	MSA	SM 5310C
Total Recoverable Phenols	< RDL	mg/l		0.005	11/15/2011 09:20	JLF	EPA 420.1
Chloride	6.6	mg/L		1.0	11/14/2011 21:19	NVQ	EPA 300.0
Fluoride	< RDL	mg/l		0.1	11/14/2011 21:47	NVQ	EPA 300.0
Sulfate	11	mg/l		1.0	11/14/2011 21:19	NVQ	EPA 300.0
Arsenic ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Barium	0.03	mg/l		0.01	11/08/2011 11:04	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/08/2011 10:20	MER	EPA 200.8
Calcium	6.3	mg/l		0.10	11/08/2011 14:00	KFJ	EPA 200.7
Chromium ICPMS	0.002	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Iron	0.28	mg/l		0.05	11/08/2011 11:04	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Magnesium	2.4	mg/l		0.10	11/08/2011 11:04	KFJ	EPA 200.7
Manganese ICPMS	0.030	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Mercury	< RDL	mg/l		0.0002	11/15/2011 11:39	MER	EPA 245.1
Nickel ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Potassium	2.9	mg/l		0.50	11/08/2011 11:04	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Sodium	14	mg/l		0.50	11/08/2011 11:04	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/08/2011 10:20	MER	EPA 200.8
Digestion for Mercury	Completed				11/14/2011 10:58	MER	EPA 245.1
Digestion for Metals - ICP	Completed				11/08/2011 09:04	KFJ	SM 3030C
Analysis comment for Digestion for Metals - ICP: Calcium digested 11-8-11 1306 KFJ.							
Digestion for Metals - ICPMS	Completed				11/08/2011 09:04	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13278	Blue Ridge Paper Co. Pigeon R Up grab, collected on 11/07/2011 at 14:50

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				11/29/2011 00:00		
Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 24 pages for TOX from Test America.							
pH (Field)	7.5	pH units		0.1	11/07/2011 14:50	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	689	umhos/cm		10	11/07/2011 14:50	JHF	SM 2510B
Temperature (Field)	15.4	degrees C		0.1	11/07/2011 14:50	JHF	SM 2550B
Turbidity (Field)	< RDL	NTU		5.0	11/07/2011 14:50	JHF	Field Screen
Nitrate-Nitrite as N	0.10	mg/l		0.10	11/22/2011 12:29	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l		0.010	11/08/2011 16:39	REH	SM 4500NO2B
Total Dissolved Solids	452	mg/l		25	11/08/2011 15:00	JLA	SM 2540C
Total Organic Carbon	12	mg/l		0.5	11/29/2011 12:42	MSA	SM 5310C
Total Recoverable Phenols	0.008	mg/l		0.005	11/15/2011 09:20	JLF	EPA 420.1
Chloride	61	mg/L		1.0	11/17/2011 18:59	LBW	EPA 300.0
Fluoride	< RDL	mg/l		0.1	11/14/2011 22:43	NVQ	EPA 300.0
Sulfate	114	mg/l		1.0	11/22/2011 18:30	LBW	EPA 300.0
Arsenic ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Barium	0.03	mg/l		0.01	11/08/2011 11:04	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/08/2011 10:20	MER	EPA 200.8
Calcium	12	mg/l		0.10	11/08/2011 14:00	KFJ	EPA 200.7
Chromium ICPMS	0.003	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Iron	0.10	mg/l		0.05	11/08/2011 11:04	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Magnesium	2.0	mg/l		0.10	11/08/2011 11:04	KFJ	EPA 200.7
Manganese ICPMS	0.029	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Mercury	< RDL	mg/l		0.0002	11/15/2011 11:42	MER	EPA 245.1
Nickel ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Potassium	8.5	mg/l		0.50	11/08/2011 11:04	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Sodium	110	mg/l		0.50	11/08/2011 14:00	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/08/2011 10:20	MER	EPA 200.8
Digestion for Mercury	Completed				11/14/2011 10:58	MER	EPA 245.1
Digestion for Metals - ICP	Completed				11/08/2011 09:04	KFJ	SM 3030C
Analysis comment for Digestion for Metals - ICP: Calcium and Sodium digested 11-8-11 1306 KFJ.							
Digestion for Metals - ICPMS	Completed				11/08/2011 09:04	MER	SM 3030C

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

							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	250	½gal	1L	250	1L	250	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	mead 11-8-11
							≤2	≤2	NA	≤2	≤2	/	≤2	Lab Receipt pH Check	
							B	B	A	C	I	C	C	Preserved (Code)	
Rogers & Callcott Lab No.	Yr 11 Date	Time	Sample Description	Total Number of Containers	PARAMETERS		Total Metals ✱	Hg	Chloride/Flor Ion/TDS/NO_2/SO_4	Phenols	TOC	TOX ⊛	NO_3	COMMENTS:	
AD 13273	11-7	1235	Pigeon R. Down	7			1	1	1	1	1	1	1	Field Data Collected	
13274		1305	BB - UP	8			1	1	1	2	1	1	1	✱ As, Ba, Cd, Ca, Cr, Cu, Fe,	
13275		1330	BB - Down	7			1	1	1	1	1	1	1	Pb, Mg, Mn, Ni, K, Se, Ag, Na, Zn	
13276		~~1355~~ 1355	BB - 3 (JHF 11-7-11)	7			1	1	1	1	1	1	1		
13277		1420	BB - 4	7			1	1	1	1	1	1	1		
13278		1450	Pigeon R. UP	7			1	1	1	1	1	1	1		

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
① [signature]	11-7-11 1537	② [signature] Shipper Name & #	11-7-11 1537
Relinquished by (Sig.) ③ [signature]	11-8-11 0748	Received by (Sig.) ④ [signature] Shipper Name & #	11.8.11 0748
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

⊛ Subcontracted

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt 2.0 °C

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

Form Revised July 2008

R/C COC FORM

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: Pigeon R. Down ☐ Development ☒ Purging

Date: 11-7-11 Field Personnel: JHF

Site Name/Location: BAPC

Page 1 of ____

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)

☒ Surface Water Grab

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): ____ @ ____
Total Depth of Well (b): ____
Length of Water Column in Well (b-a): ____
Well Casing Diameter (inches): ____
Depth to Immiscible Layer: ____

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

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*) JHF	Turbidity (NTU)	Comments
11-7-11	1235	NA	NA	NA	NA	6.65	15.0	674	NA	NA	NA	1 NA 11-7-11	<5.0	
								11-7-11						

Weather Conditions/~Temp: Sunny / 57° °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 1235

Comments ____

Reviewed by: ____ Date: ____

Revised 2/3/09

Well Number: BB-Up

☐ Development
☒ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-7-11 Field Personnel: JHF

Page 2 of ____

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)

☒ Surface Water Grab

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): ____ @ ____
Total Depth of Well (b): ____
Length of Water Column in Well (b-a): ____
Well Casing Diameter (inches): ____
Depth to Immiscible Layer: ____

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

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
11-7-11	1305	NA	NA	NA	NA	7.15	15.9	80.6	NA	NA	NA	1	<5.0	
								11-7-11						

Weather Conditions/~Temp: Sunny / 59 °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 1305

Comments

Reviewed by: ____ Date: ____

Revised 2/3/09

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: BB-Down

☐ Development
☑ Purging

Date: 11-7-11 Field Personnel: JHF

Site Name/Location: BBPC

Page 3 of ____

For Low Flow Sampling: Page 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)

☑ Surface Water Grab

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): ____ @ ____
Total Depth of Well (b): ____
Length of Water Column in Well (b-a): ____
Well Casing Diameter (inches): ____
Depth to Immiscible Layer: ____

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

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
11-7-11	1330	NA	NA	NA	NA	7.18	13.5	89.7	NA	NA	NA	1	<5.0	
							11-7-11							

Weather Conditions/~Temp: Sunny / 59 °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 1330

Comments

Reviewed by: ____ Date: ____

Revised 2/3/09

Well Number: BB-3

☐ Development
☒ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-7-11 Field Personnel: JAF

Site Name/Location: BRPC

Page 4 of ____

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)

☒ Surface Water Grab

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): ____ @ ____
Total Depth of Well (b): ____
Length of Water Column in Well (b-a): ____
Well Casing Diameter (inches): ____
Depth to Immiscible Layer: ____

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

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
	1355													
11-7-11	~~13:0~~	NA	NA	NA	NA	7.28	12.5	106.3	NA	NA	NA	1	<5.0	
	JAF 11-7-11													
							11-7-11							

Weather Conditions/~Temp: Sunny / 61 °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 1355

Comments

Reviewed by: ____ Date: ____

Revised 2/3/09

Well Number: BB-4

☐ Development
☒ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-7-11 Field Personnel: JHF

Site Name/Location: BRPC

Page 5 of ____

For Low Flow Sampling: Page 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)
☒ Surface Water Grab

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): ____ @ ____
Total Depth of Well (b): ____
Length of Water Column in Well (b-a): ____
Well Casing Diameter (inches): ____
Depth to Immiscible Layer: ____

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

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
11-7-11	1420	NA	NA	NA	NA	7.39	12.2	122.1	NA	NA	NA	1	<5.0	
								11-7-11						

Weather Conditions/~Temp: Sunny / 61 °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 1420

Comments

Reviewed by: ____ Date: ____

Revised 2/3/09

Well Number: Pigeon R. UP ☐ Development ☒ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-7-11 Field Personnel: JHF

Page 6 of ____

Site Name/Location: BRPC

For Low Flow Sampling: Page 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)

☒ Surface Water Grab

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): ____ @ ____
Total Depth of Well (b): ____
Length of Water Column in Well (b-a): ____
Well Casing Diameter (inches): ____
Depth to Immiscible Layer: ____

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

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
11-7-11	1450	NA	NA	NA	NA	7.49	15.4	689	NA	NA	NA	1	<5.0	

11-7-11

Weather Conditions/~Temp: Sunny / 61 °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 1450

Comments

Reviewed by: ____ Date: ____

Revised 2/3/09

Rogers and Callcott Engineers

Field Meter Calibration Record

Client: BRPC **Date:** 11-7-11

Conductivity Calibration - EPA 9050A

Meter Make / Model: Orion 4 Star SN: A12882 Probe: PT1-11328

Time: 0847 Analyst: JHF Cell Constant 0.468

Chemical Inventory	Conc. of Standard, µmhos/cm @25°C		Actual Reading of Standard, µmhos/cm	Actual Reading of Standard, @ Temperature, °C
11-08-28	10.35		10.27	23.5
11-08-32	99.4		100.2	23.5
11-08-33	998		1002	23.5
11-08-27	SSS conc:	447	450	23.6

Temperature compensation for pH / conductivity meter : -0.1

pH Calibration - EPA 9040C

Meter Make / Model: Orion 4 Star Probe: YSI-605377 09J

Time: 0843 Analyst: JHF Slope: 99.1

Chemical Inventory	Conc. of Buffer, units		Actual Reading of Buffer, units
11-10-07	4.0		3.99
11-08-69	7.0		7.04
11-08-70	10.0		10.02
11-09-47	SSS conc:	7.0	7.03

Turbidity Meter Calibration
Field Screen Method

Meter Make / Model: Hach 2100P SN: 980700018869 Date of most recent calibration: 10-28-11

Time: 0842 Analyst: JHF

Chemical Inventory	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
11-02-01	4.63	4.49
11-02-02	45.4	44.8
11-02-03	474	468

Reviewed by: _____ Date: _____

Revised 07/21/11

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: 11/08/2011
Time Received: 07:48
Date Reported: 01/05/2012

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

Sample Number	*Sample Description*
AD13279	Blue Ridge Paper Co. MW-14 grab, collected on 11/07/2011 at 12:47
AD13280	Blue Ridge Paper Co. MW-14 grab, collected on 11/07/2011 at 12:50
AD13281	Blue Ridge Paper Co. MW-14 grab, collected on 11/07/2011 at 12:52
AD13282	Blue Ridge Paper Co. MW-14 grab, collected on 11/07/2011 at 13:04
AD13283	Blue Ridge Paper Co. MW-14 grab, collected on 11/07/2011 at 13:12
AD13284	Blue Ridge Paper Co. MW-14 grab, collected on 11/07/2011 at 13:14
AD13285	Blue Ridge Paper Co. MW-14 grab, collected on 11/07/2011 at 13:20

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: Amy Z Ashley
authorized signature

Results reviewed by: KLH

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

Sample Number	Sample Description, Date and Time Collected
AD13279	Blue Ridge Paper Co. MW-14 grab, collected on 11/07/2011 at 12:47

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Arsenic ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Barium	0.12	mg/l		0.01	11/08/2011 11:04	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/08/2011 10:20	MER	EPA 200.8
Calcium	5.5	mg/l		0.10	11/08/2011 14:00	KFJ	EPA 200.7
Chromium ICPMS	0.003	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Iron	0.09	mg/l		0.05	11/08/2011 11:04	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Magnesium	3.5	mg/l		0.10	11/08/2011 11:04	KFJ	EPA 200.7
Manganese ICPMS	0.006	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Nickel ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Potassium	2.8	mg/l		0.50	11/08/2011 11:04	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Sodium	8.2	mg/l		0.50	11/08/2011 11:04	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/08/2011 10:20	MER	EPA 200.8
Digestion for Metals - ICP	Completed				11/08/2011 09:04	KFJ	SM 3030C
Analysis comment for Digestion for Metals - ICP: Calcium digested 11-8-11 1306 KFJ.							
Digestion for Metals - ICPMS	Completed				11/08/2011 09:04	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13280	Blue Ridge Paper Co. MW-14 grab, collected on 11/07/2011 at 12:50

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Mercury	< RDL	mg/l		0.0002	11/15/2011 11:45	MER	EPA 245.1
Digestion for Mercury	Completed				11/14/2011 10:58	MER	EPA 245.1

Sample Number	Sample Description, Date and Time Collected
AD13281	Blue Ridge Paper Co. MW-14 grab, collected on 11/07/2011 at 12:52

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Nitrite as N	< RDL	mg/l		0.010	11/08/2011 16:39	REH	SM 4500NO2B
Total Dissolved Solids	110	mg/l		25	11/08/2011 15:00	JLA	SM 2540C
Chloride	13	mg/L		1.0	11/14/2011 17:07	NVQ	EPA 300.0
Fluoride	< RDL	mg/l		0.1	11/14/2011 17:35	NVQ	EPA 300.0
Sulfate	< RDL	mg/l		1.0	11/14/2011 17:35	NVQ	EPA 300.0

Sample Number	Sample Description, Date and Time Collected
AD13282	Blue Ridge Paper Co. MW-14 grab, collected on 11/07/2011 at 13:04

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Total Recoverable Phenols	< RDL	mg/l		0.005	11/14/2011 09:05	JLF	EPA 420.1

Sample Number	Sample Description, Date and Time Collected
AD13283	Blue Ridge Paper Co. MW-14 grab, collected on 11/07/2011 at 13:12

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Total Organic Carbon	0.52	mg/l		0.5	11/22/2011 01:31	MSA	SM 5310C

Sample Number	Sample Description, Date and Time Collected
AD13284	Blue Ridge Paper Co. MW-14 grab, collected on 11/07/2011 at 13:14

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				11/29/2011 00:00		

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 24 pages for TOX from Test America.

Sample Number	Sample Description, Date and Time Collected
AD13285	Blue Ridge Paper Co. MW-14 grab, collected on 11/07/2011 at 13:20

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Depth to water	28.99	feet			11/07/2011 12:11	BCS	
pH (Field)	5.3	pH units		0.1	11/07/2011 12:45	BCS	SM 4500HB
Specific Conductance at 25 C (Field)	124	umhos/cm		10	11/07/2011 12:45	BCS	SM 2510B
Temperature (Field)	14.8	degrees C		0.1	11/07/2011 12:45	BCS	SM 2550B
Turbidity (Field)	< RDL	NTU		5.0	11/07/2011 12:45	BCS	Field Screen
Nitrate-Nitrite as N	1.1	mg/l		0.10	11/22/2011 13:56	REH	SM 4500NO3H

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: 11/08/2011
Time Received: 07:48
Date Reported: 01/05/2012

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

Sample Number	*Sample Description*
AD13286	Blue Ridge Paper Co. MW-15 grab, collected on 11/07/2011 at 14:12
AD13287	Blue Ridge Paper Co. MW-15 grab, collected on 11/07/2011 at 14:15
AD13288	Blue Ridge Paper Co. MW-15 grab, collected on 11/07/2011 at 14:17
AD13289	Blue Ridge Paper Co. MW-15 grab, collected on 11/07/2011 at 14:28
AD13290	Blue Ridge Paper Co. MW-15 grab, collected on 11/07/2011 at 14:35
AD13291	Blue Ridge Paper Co. MW-15 grab, collected on 11/07/2011 at 14:37
AD13292	Blue Ridge Paper Co. MW-15 grab, collected on 11/07/2011 at 14:43

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: Amy J Ashley
authorized signature

Results reviewed by: KLH

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Sample Number	Sample Description, Date and Time Collected
AD13286	Blue Ridge Paper Co. MW-15 grab, collected on 11/07/2011 at 14:12

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Arsenic ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Barium	0.04	mg/l		0.01	11/08/2011 11:04	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/08/2011 10:20	MER	EPA 200.8
Calcium	4.1	mg/l		0.10	11/08/2011 14:00	KFJ	EPA 200.7
Chromium ICPMS	0.003	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Iron	0.09	mg/l		0.05	11/08/2011 11:04	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Magnesium	1.4	mg/l		0.10	11/08/2011 11:04	KFJ	EPA 200.7
Manganese ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Nickel ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Potassium	1.5	mg/l		0.50	11/08/2011 11:04	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/08/2011 10:20	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/08/2011 10:20	MER	EPA 200.8
Sodium	3.1	mg/l		0.50	11/08/2011 11:04	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/08/2011 10:20	MER	EPA 200.8
Digestion for Metals - ICP	Completed				11/08/2011 09:04	KFJ	SM 3030C
Analysis comment for Digestion for Metals - ICP: Calcium digested 11-8-11 1306 KFJ.							
Digestion for Metals - ICPMS	Completed				11/08/2011 09:04	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13287	Blue Ridge Paper Co. MW-15 grab, collected on 11/07/2011 at 14:15

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Mercury	< RDL	mg/l		0.0002	11/15/2011 11:53	MER	EPA 245.1
Digestion for Mercury	Completed				11/14/2011 10:58	MER	EPA 245.1

Sample Number	Sample Description, Date and Time Collected
AD13288	Blue Ridge Paper Co. MW-15 grab, collected on 11/07/2011 at 14:17

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Nitrite as N	< RDL	mg/l		0.010	11/08/2011 16:39	REH	SM 4500NO2B
Total Dissolved Solids	52	mg/l		25	11/08/2011 15:00	JLA	SM 2540C
Chloride	< RDL	mg/L		1.0	11/14/2011 18:31	NVQ	EPA 300.0
Fluoride	< RDL	mg/l		0.1	11/14/2011 18:31	NVQ	EPA 300.0
Sulfate	< RDL	mg/l		1.0	11/14/2011 18:31	NVQ	EPA 300.0

Sample Number	Sample Description, Date and Time Collected
AD13289	Blue Ridge Paper Co. MW-15 grab, collected on 11/07/2011 at 14:28

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Total Recoverable Phenols	< RDL	mg/l		0.005	11/14/2011 09:05	JLF	EPA 420.1

Sample Number	Sample Description, Date and Time Collected
AD13290	Blue Ridge Paper Co. MW-15 grab, collected on 11/07/2011 at 14:35

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Total Organic Carbon	0.55	mg/l		0.5	11/22/2011 01:50	MSA	SM 5310C

Sample Number	Sample Description, Date and Time Collected
AD13291	Blue Ridge Paper Co. MW-15 grab, collected on 11/07/2011 at 14:37

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				11/29/2011 00:00		

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 24 pages for TOX from Test America.

Sample Number	Sample Description, Date and Time Collected
AD13292	Blue Ridge Paper Co. MW-15 grab, collected on 11/07/2011 at 14:43

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Depth to water	32.51	feet			11/07/2011 12:19	BCS	
pH (Field)	5.9	pH units		0.1	11/07/2011 14:11	BCS	SM 4500HB
Specific Conductance at 25 C (Field)	49	umhos/cm		10	11/07/2011 14:11	BCS	SM 2510B
Temperature (Field)	13.3	degrees C		0.1	11/07/2011 14:11	BCS	SM 2550B
Turbidity (Field)	< RDL	NTU		5.0	11/07/2011 14:11	BCS	Field Screen
Nitrate-Nitrite as N	0.33	mg/l		0.10	11/22/2011 12:29	REH	SM 4500NO3H

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUK1658
Client Project/Site: [none]
Client Project Description: TOX, NC

For:
Rogers & Callcott Engineers, Inc. (13572)
P.O. Box 5655
Greenville, SC 29606

Attn: Susan Gunter

Authorized for release by:
11/29/2011 2:45:39 PM

Ken A. Hayes
Senior Project Manager
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUK1658-01	AD13284 MW-14	Ground Water	11/07/11 13:14	11/11/11 08:30
NUK1658-02	AD13291 MW-15	Ground Water	11/07/11 14:37	11/11/11 08:30
NUK1658-03	AD13273 Pigeon R Down	Ground Water	11/07/11 12:35	11/11/11 08:30
NUK1658-04	AD13274 BB-UP	Ground Water	11/07/11 13:05	11/11/11 08:30
NUK1658-05	AD13275 BB-Down	Ground Water	11/07/11 13:30	11/11/11 08:30
NUK1658-06	AD13276 BB-3	Ground Water	11/07/11 13:55	11/11/11 08:30
NUK1658-07	AD13277 BB-4	Ground Water	11/07/11 14:20	11/11/11 08:30
NUK1658-08	AD13278 Pigeon R Up	Ground Water	11/07/11 14:50	11/11/11 08:30

Case Narrative

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Job ID: NUK1658

Laboratory: TestAmerica Nashville

4

Narrative

REVISED REPORT: 11/29/11 KAH - To correct sample ID for NUK1658-08 per client request. This report replaces the one generated on 11/28/11 @ 1412.

Definitions/Glossary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Qualifiers

WetChem

Qualifier	Qualifier Description
S7	Sample breakthrough to 2nd section is > 10%. Results may be biased low.

5

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Client Sample ID: AD13284 MW-14

Date Collected: 11/07/11 13:14
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1658-01
Matrix: Ground Water

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	<0.0300		0.0300		mg/L		11/14/11 08:33	11/14/11 10:48	1.00

6

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Client Sample ID: AD13291 MW-15

Date Collected: 11/07/11 14:37
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1658-02

Matrix: Ground Water

6

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	<0.0300		0.0300		mg/L		11/14/11 08:33	11/14/11 10:48	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Client Sample ID: AD13273 Pigeon R Down

Date Collected: 11/07/11 12:35
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1658-03

Matrix: Ground Water

6

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.434	S7	0.0300		mg/L		11/14/11 08:33	11/14/11 10:48	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Client Sample ID: AD13274 BB-UP

Date Collected: 11/07/11 13:05
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1658-04

Matrix: Ground Water

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	<0.0300		0.0300		mg/L		11/14/11 08:33	11/14/11 10:48	1.00

6

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Client Sample ID: AD13276 BB-3

Date Collected: 11/07/11 13:55
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1658-06

Matrix: Ground Water

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	<0.0300		0.0300		mg/L		11/14/11 08:33	11/14/11 10:48	1.00

6

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Client Sample ID: AD13275 BB-Down
Date Collected: 11/07/11 13:30
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1658-05
Matrix: Ground Water

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	<0.0300		0.0300		mg/L		11/14/11 08:33	11/14/11 10:48	1.00

6

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Client Sample ID: AD13277 BB-4
Date Collected: 11/07/11 14:20
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1658-07
Matrix: Ground Water

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	<0.0300		0.0300		mg/L		11/14/11 08:33	11/14/11 10:48	1.00

6

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Client Sample ID: AD13278 Pigeon R Up

Date Collected: 11/07/11 14:50
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1658-08
Matrix: Ground Water

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.350	S7	0.0300		mg/L		11/14/11 08:33	11/14/11 10:48	1.00

6

QC Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Method: SW846 9020B - General Chemistry Parameters

Lab Sample ID: 11K3386-BLK1
Matrix: Water
Analysis Batch: 11K3386

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11K3386_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	<0.0300		0.0300		mg/L		11/14/11 08:33	11/14/11 10:48	1.00

Lab Sample ID: 11K3386-BS1
Matrix: Water
Analysis Batch: 11K3386

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11K3386_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Halides	0.250	0.299		mg/L		120	90 - 120

Lab Sample ID: 11K3386-BSD1
Matrix: Water
Analysis Batch: 11K3386

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11K3386_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Halides	0.250	0.279		mg/L		111	90 - 120	7	20

Lab Sample ID: 11K3386-MS2
Matrix: Water
Analysis Batch: 11K3386

Client Sample ID: AD13276 BB-3
Prep Type: Total
Prep Batch: 11K3386_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Halides	<0.0300		0.100	0.0923		mg/L		92	70 - 130

QC Association Summary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

WetChem

Analysis Batch: 11K3386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11K3386-BLK1	Method Blank	Total	Water	SW846 9020B	11K3386_P
11K3386-BS1	Lab Control Sample	Total	Water	SW846 9020B	11K3386_P
11K3386-BSD1	Lab Control Sample Dup	Total	Water	SW846 9020B	11K3386_P
11K3386-MS2	AD13276 BB-3	Total	Water	SW846 9020B	11K3386_P
NUK1658-01	AD13284 MW-14	Total	Ground Water	SW846 9020B	11K3386_P
NUK1658-02	AD13291 MW-15	Total	Ground Water	SW846 9020B	11K3386_P
NUK1658-03	AD13273 Pigeon R Down	Total	Ground Water	SW846 9020B	11K3386_P
NUK1658-04	AD13274 BB-UP	Total	Ground Water	SW846 9020B	11K3386_P
NUK1658-05	AD13275 BB-Down	Total	Ground Water	SW846 9020B	11K3386_P
NUK1658-06	AD13276 BB-3	Total	Ground Water	SW846 9020B	11K3386_P
NUK1658-07	AD13277 BB-4	Total	Ground Water	SW846 9020B	11K3386_P
NUK1658-08	AD13278 Pigeon R Up	Total	Ground Water	SW846 9020B	11K3386_P

Prep Batch: 11K3386_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11K3386-BLK1	Method Blank	Total	Water	NO PREP	
11K3386-BS1	Lab Control Sample	Total	Water	NO PREP	
11K3386-BSD1	Lab Control Sample Dup	Total	Water	NO PREP	
11K3386-MS2	AD13276 BB-3	Total	Water	NO PREP	
NUK1658-01	AD13284 MW-14	Total	Ground Water	NO PREP	
NUK1658-02	AD13291 MW-15	Total	Ground Water	NO PREP	
NUK1658-03	AD13273 Pigeon R Down	Total	Ground Water	NO PREP	
NUK1658-04	AD13274 BB-UP	Total	Ground Water	NO PREP	
NUK1658-05	AD13275 BB-Down	Total	Ground Water	NO PREP	
NUK1658-06	AD13276 BB-3	Total	Ground Water	NO PREP	
NUK1658-07	AD13277 BB-4	Total	Ground Water	NO PREP	
NUK1658-08	AD13278 Pigeon R Up	Total	Ground Water	NO PREP	

Lab Chronicle

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Client Sample ID: AD13284 MW-14

Lab Sample ID: NUK1658-01
Matrix: Ground Water

Date Collected: 11/07/11 13:14
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11K3386_P	11/14/11 08:33	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11K3386	11/14/11 10:48	SHJ	TAL NSH

Client Sample ID: AD13291 MW-15

Lab Sample ID: NUK1658-02
Matrix: Ground Water

Date Collected: 11/07/11 14:37
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11K3386_P	11/14/11 08:33	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11K3386	11/14/11 10:48	SHJ	TAL NSH

Client Sample ID: AD13273 Pigeon R Down

Lab Sample ID: NUK1658-03
Matrix: Ground Water

Date Collected: 11/07/11 12:35
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11K3386_P	11/14/11 08:33	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11K3386	11/14/11 10:48	SHJ	TAL NSH

Client Sample ID: AD13274 BB-UP

Lab Sample ID: NUK1658-04
Matrix: Ground Water

Date Collected: 11/07/11 13:05
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11K3386_P	11/14/11 08:33	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11K3386	11/14/11 10:48	SHJ	TAL NSH

Client Sample ID: AD13275 BB-Down

Lab Sample ID: NUK1658-05
Matrix: Ground Water

Date Collected: 11/07/11 13:30
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11K3386_P	11/14/11 08:33	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11K3386	11/14/11 10:48	SHJ	TAL NSH

Client Sample ID: AD13276 BB-3

Lab Sample ID: NUK1658-06
Matrix: Ground Water

Date Collected: 11/07/11 13:55
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11K3386_P	11/14/11 08:33	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11K3386	11/14/11 10:48	SHJ	TAL NSH

Lab Chronicle

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Client Sample ID: AD13277 BB-4

Lab Sample ID: NUK1658-07
Matrix: Ground Water

Date Collected: 11/07/11 14:20
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11K3386_P	11/14/11 08:33	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11K3386	11/14/11 10:48	SHJ	TAL NSH

Client Sample ID: AD13278 Pigeon R Up

Lab Sample ID: NUK1658-08
Matrix: Ground Water

Date Collected: 11/07/11 14:50
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11K3386_P	11/14/11 08:33	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11K3386	11/14/11 10:48	SHJ	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

9

Method Summary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Method	Method Description	Protocol	Laboratory
SW846 9020B	General Chemistry Parameters		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

10

Certification Summary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1658

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA - LAP	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECE

NUJK1658

Cooler Received/Opened On 11/11/2011 @ 0830

1 of 2

1. Tracking # 8923 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 95610068

2. Temperature of rep. sample or temp blank when opened: 1.2 *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) [illegible]

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) [illegible]

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) [illegible]

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) [illegible]

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

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

12

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

NUK1658
11/28/11 23:59

CALLCOTT 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.:

Rogers & Callcott Lab No.	Yr. 11 Date	Time	Sample Description	Total Number of Containers	PARAMETERS: TOX								COMMENTS:
					Filtered (Yes/No)	N							
					Cooled (Yes/No)	Y							
					Container Type (P/G)	C							
					Container Volume	1L							
					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)	C							
AD 13284	11.7	1314	MW-14	1		1							SUB TO TEST AMERICA
13291		1437	MW-15	1		1							
13273		1235	PIGEON R DOWN	1		1							
13274		1305	BB-UP	1		1							NC SAMPLES
13275		1330	BB-DOWN	1		1							
13276		1355	BB-3	1		1							
13277		1420	BB-4	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– ____

SAMPLER Relinquished by (Sig.) ①	Date/Time 11.10.11 1530	Received by (Sig.) ② Shipper Name & #	Date/Time
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 11-11-11 08:30

KNOWN HAZARDS ASSOCIATED WITH SAMPLES

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

1.2

R/C COC FORM

NUK1658
11/28/11 23:59

CALLCOTT 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.:

Rogers & Callcott Lab No.	Yr.11 Date	Time	Sample Description	Total Number of Containers	PARAMETERS: TOX								
					C								
Filtered (Yes/No)					N								
Cooled (Yes/No)					Y								
Container Type (P/G)					C								
Container Volume					1L								
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)													
AD	13272	11-7	1450	PIGEON RUP	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– ____

COMMENTS:

SUB TO TEST AMERICA

NO SAMPLES

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time	KNOWN HAZARDS ASSOCIATED WITH SAMPLES
① [signature]	11.10.11 1530	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 [signature] Shipper Name & #	Date/Time 11-11-11 08:30	Temperature of blank or representative sample
Seal # at'chd by ◯	Recvd. Intact by ◯	Seal # at'chd by ◯	Recvd. Intact by ◯	At time of collection ____ °C
				At time of lab receipt ____ °C

Form Revised July 2008

1.2

R/C COC FORM

Hayes, Ken

From: Susan Gunter [susan.gunter@rogersandcallcott.com]
Sent: Tuesday, November 29, 2011 2:25 PM
To: Hayes, Ken
Subject: Job ID NUK1658
Attachments: 20111129_151816.pdf

Ken,
I have attached the 2-page chain of custody for the above report which you sent to me on Monday 11-28-11. I didn't notice that we made an error on one of our numbers on the second page in reference to the Pigeon R Up sample. The number should be AD13278. I had the number corrected on the chain of custody and need to have you change it on the report.
I'm very sorry that I didn't catch this mistake when you sent the initial work order.
I appreciate your help.
Thanks very much.
Susan

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Susan Gunter
Rogers and Callcott Laboratory Services
PO Box 5655
Greenville SC 29606
Phone (864) 232-1556
Fax (864) 232-6140

Confidentiality Notice*******
Privileged / Confidential information may be contained in this message and is intended only for the use of the addressee. If you are not the addressee, or the person responsible for delivering to the person addressed, you may not copy or deliver this message to anyone else. If you receive this message by mistake, please notify the sender immediately by return e-mail. Thank you.

From: 10.10.50.29-FirstFloor@rogersandcallcott.com [mailto:10.10.50.29-FirstFloor@rogersandcallcott.com]
Sent: Tuesday, November 29, 2011 3:18 PM
To: susan.gunter@rogersandcallcott.com
Subject: Scanned image from MX-4101N

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.:

Rogers & Callcott Lab No. (KRU 11.29)	Yr. 11 Date	Time	Sample Description	Total Number of Containers	PARAMETERS: TOX							
Filtered (Yes/No)					N							
Cooled (Yes/No)					Y							
Container Type (P/G)					C							
Container Volume					1L							
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)					C							
~~AD 13272~~	11.7	14.50	PIGEON R UP	1	1							SUB TO TEST AMERICA
AD 13278												
												NC SAMPLES

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: BLUE RIDGE

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time	KNOWN HAZARDS ASSOCIATED WITH SAMPLES
① [signature]	11.10.11 | 1530	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	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

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

	Total Metals*	Total Hg	SO4, Cl, F, TDS, NO2	Phenols	TOC	TOX	NO3
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	1 L	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	NA	<2	<2	/	<2
Preserved (Code)	B	B	A	C	I	C	C

Lab Receipt Cl_2 / pH Check: mcal 11-8-11

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– H_3PO_4

TOX: ® (subcontract)

Rogers & Callcott Lab No.	Yr. 11 Date	Time	Sample Description	Total Number of Containers	Total Metals*	Total Hg	SO4, Cl, F, TDS, NO2	Phenols	TOC	TOX	NO3	COMMENTS
AD 13279	11-7	1247	MW-14	1	1							*As, Ba, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K,
13280	11-7	1250	MW-14	1		1						Se, Ag, Na, Zn
13281	11-7	1252	MW-14	1			1					
13282	11-7	1304	MW-14	1				1				
13283	11-7	1312	MW-14	1					1			
13284	11-7	1314	MW-14	1						1		
13285	11-7	1320	MW-14	1							1	Field data collected

Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
SAMPLER ① [signature]	11/7/2011 1537	② [signature] Shipper Name & #	11-7-11 1537
③ [signature]	11-8-11 0748	④ [signature] Shipper Name & #	11.8.11 0748
⑤		⑥ Shipper Name & #	
Seal # at'chd by ◯	Recvd. Intact by ◯	Seal # at'chd by ◯	Recvd. Intact by ◯

KNOWN HAZARDS ASSOCIATED WITH SAMPLES
® subcontract

Temperature of blank or representative sample
At time of collection ______ °C
At time of lab receipt 2.0 °C

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

Filtered (Yes/No)	N								
Cooled (Yes/No)	Y								
Container Type (P/G)	P	P	P	G	P	G	P		
Container Volume	500 mL	750 mL	1/2 gal	1 L	750 mL	1 L	750 mL		
Sample Type (Grab/Composite)	G								
Sample Source (WW, GW, DW, Other)	GW								
Sample Source Chlorinated (Yes/No)	N								
Lab Receipt Cl_2 Check	NA	NA	NA	NA	NA		NK		
Lab Receipt pH Check	12	<2	NA	<2	<2		<2		
Preserved (Code)	B	B	A	C	I	C	C		
PARAMETERS	Total Metals*	Total H_2	SO_4, Cl, F, TDS, NO_3	Phenols	TOC	TOX ⊛	NO_3		

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– H_3PO_4

Rogers & Callcott Lab No.	Yr. 11 Date	Time	Sample Description	Total Number of Containers	Total Metals*	Total H_2	SO_4, Cl, F, TDS, NO_3	Phenols	TOC	TOX ⊛	NO_3	COMMENTS:
AD 13286	11-7	1412	MW-15	1	1							* See page 1
13287	|	1415	|	1		1						
13288	|	1417	|	1			1					
13289	|	1428	|	1				1				
13290	|	1435	|	1					1			
13291	|	1437	|	1						1		
13292	|	1443	|	1							1	Field data collected

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
① [signature]	11/7/2011 1537	② [signature] Shipper Name & #	11-7-11 1537
Relinquished by (Sig.) ③ [signature]	11-8-11 0745	Received by (Sig.) ④ [signature] Shipper Name & #	11.8.11 0748
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

⊛ subcontract

Temperature of blank or representative sample

At time of collection ____ °C

At time of lab receipt 2.0 °C

Form Revised July 2008

R/C COC FORM

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-14

☐ Development
☒ Purging

Date: 11/7/2011 Field Personnel: BCS

Site Name/Location: BZPC

Page 1 of 2

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): 28.99 @ 1211
Total Depth of Well (b): 35.24
Length of Water Column in Well (b-a): 6.25
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		2625

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
11/7/2011	1230	NA	175	28.99	0.0	5.52	17.1	117.9	NA	NA	NA	1	15.2	
	1235	1	175	29.14	875	5.23	15.5	115.6				1	9.66	
	1240	2	175	29.24	1750	5.23	15.0	119.8				1	<5.0	
	1245	3	175	29.30	2625	5.27	14.8	123.9				1	<5.0	

4/7/2011

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 Total Metals - 1247; Total Hg - 1250; Cl, F, TDS, NO_2, SO_4 - 1252; Phenols - 1304; TOC - 1312; TOX - 1314; NO_3 - 1320

Comments

Reviewed by: Date:

Revised 2/3/09

Well Number: MW-15

☐ Development
☒ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Page 2 of 2

Date: 11/7/2011 Field Personnel: BCS

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): 32.51 @ 1219
Total Depth of Well (b): 43.74
Length of Water Column in Well (b-a): 11.23
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		3500

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 BCS 11/7/2011
Vegetation: Overgrown/ Moderate/ Low/ 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
11/7/2011	1351	NA	175	32.51	0.0	5.46	14.8	50.3	NA	NA	NA	1	7.09	
	1356	1	175	32.83	875	5.93	13.8	49.0				1	6.55	
	1401	2	175	32.89	1750	5.81	13.3	48.8				1	<5.0	
	1406	3	175	32.93	2625	5.88	13.2	48.8				1	<5.0	
	1411	4	175	32.95	3500	5.91	13.3	48.9				1	<5.0	

Dwetty C. Ail 11/7/2011

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 Total Metals - 1412; Total Hg - 1415; Cl, F, TDS, NO_2, SO_4 - 1417; Phenols - 1428; TOC - 1435; TOX - 1437; NO_3 - 1443

Comments

Reviewed by: Date:

Revised 2/3/09

Rogers and Callcott Engineers

Field Meter Calibration Record

Client: BRPC **Date:** 11/7/2011

Conductivity Meter Calibration
EPA 9050A

Meter Make / Model: YSI EC300 SN: 5C01963 Probe: 300-4M 0861100071

Time: 0822 Analyst: BCS Cell Constant 5.02

Chemical Inventory	Conc. of Standard, µmhos/cm @25°C		Actual Reading of Standard, µmhos/cm	@ Temperature, °C
110828	10.35		10.4	24.1
110836	99.4		100.5	24.2
110833	948		997	24.3
110827	SSS conc:	447	446.2	24.3

Temperature compensation for conductivity meter : Ø

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

pH Meter Calibration
EPA 9040C

Meter Make / Model: YSI pH100 SN: 5C03182 Probe: YSI 605377 10F

Time: 0822 Analyst: BCS Slope: 98.9

Chemical Inventory	Conc. of Buffer, units		Actual Reading of Buffer, units
111007	4.0		3.98
110869	7.0		7.02
110870	10.0		9.98
110947	SSS conc:	7.0	7.02

Temperature compensation for pH meter : +0.2

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: 11/2/2011

Time: 0820 Analyst: BCS

Chemical Inventory	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
110105	4.47	4.73
110106	47.7	48.1
110107	470	466

Reviewed by: _____ Date: _____

Revised 03/18/09

Rogers and Callcott Engineers

Continuing Calibration Verification

Client: BRPC **Date:** 11/7/2011

Conductivity Meter
EPA 9050A

Meter Make / Model: YSI EC300 SN: 5C01963 Probe: 300-YM 08L100071

Time	Analyst	Conc. of Standard, µmhos/cm @25°C	Actual Reading of Standard, µmhos/cm
1106	BCS	99.4	104.0 @ 21.6 °C
1536	BCS	99.8	99.4 @ 22.3 °C

pH Meter
EPA 9040C

Meter Make / Model: YSI pH100 SN: 5C05192 Probe: YSI 605377 10F

Time	Analyst	Conc. of Buffer, units	Actual Reading of Buffer, units
1106	BCS	7.0	6.94
1536	BCS	4.0	4.05

Turbidity Meter
Field Screen Method

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

Time	Analyst	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
1106	BCS	47.7	47.9
1536	BCS	4.47	4.74

Field Duplicate

Well ID: MW-14

Time	Analyst	Conductivity, µmhos/cm	pH, units	Turbidity, NTU	Temperature, °C
1245	BCS	124.8	5.29	<5.0	14.8

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

Reviewed by: _____ Date: _____

Revised 03/18/09

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: 11/09/2011
Time Received: 15:49
Date Reported: 01/05/2012

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

Sample Number	*Sample Description*
AD13488	Blue Ridge Paper Co. MW-13 grab, collected on 11/08/2011 at 09:32
AD13489	Blue Ridge Paper Co. MW-13 grab, collected on 11/08/2011 at 09:36
AD13490	Blue Ridge Paper Co. MW-13 grab, collected on 11/08/2011 at 09:38
AD13491	Blue Ridge Paper Co. MW-13 grab, collected on 11/08/2011 at 09:49
AD13492	Blue Ridge Paper Co. MW-13 grab, collected on 11/08/2011 at 09:57
AD13493	Blue Ridge Paper Co. MW-13 grab, collected on 11/08/2011 at 09:59
AD13494	Blue Ridge Paper Co. MW-13 grab, collected on 11/08/2011 at 10:10

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: Amy J Ashley
authorized signature

Results reviewed by: KLH

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Sample Number	Sample Description, Date and Time Collected
AD13488	Blue Ridge Paper Co. MW-13 grab, collected on 11/08/2011 at 09:32

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Arsenic ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Barium	0.01	mg/l		0.01	11/10/2011 12:20	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/10/2011 09:52	MER	EPA 200.8
Calcium	10	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Chromium ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Iron	0.26	mg/l		0.05	11/10/2011 12:20	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Magnesium	6.9	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Manganese	1.4	mg/l		0.02	11/10/2011 12:20	KFJ	EPA 200.7
Nickel ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Potassium	4.6	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Sodium	480	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/10/2011 09:52	MER	EPA 200.8
Digestion for Metals - ICP	Completed				11/09/2011 16:53	KFJ	SM 3030C
Digestion for Metals - ICPMS	Completed				11/09/2011 16:53	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13489	Blue Ridge Paper Co. MW-13 grab, collected on 11/08/2011 at 09:36

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Mercury	< RDL	mg/l		0.0002	12/02/2011 09:29	KFJ	EPA 245.1
Digestion for Mercury	Completed				12/01/2011 11:54	KFJ	EPA 245.1

Sample Number	Sample Description, Date and Time Collected
AD13490	Blue Ridge Paper Co. MW-13 grab, collected on 11/08/2011 at 09:38

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Nitrite as N	< RDL	mg/l		0.010	11/09/2011 17:31	REH	SM 4500NO2B
Total Dissolved Solids	1520	mg/l		25	11/11/2011 09:00	JLA	SM 2540C
Chloride	36	mg/L		1.0	11/17/2011 20:04	LBW	EPA 300.0
Fluoride	< RDL	mg/l	X	1.0	11/16/2011 15:06	LBW	EPA 300.0
Sulfate	608	mg/l		1.0	11/23/2011 00:21	LBW	EPA 300.0

Sample Number	Sample Description, Date and Time Collected
AD13491	Blue Ridge Paper Co. MW-13 grab, collected on 11/08/2011 at 09:49

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Total Recoverable Phenols	< RDL	mg/l		0.005	11/15/2011 09:20	JLF	EPA 420.1

Sample Number	Sample Description, Date and Time Collected
AD13492	Blue Ridge Paper Co. MW-13 grab, collected on 11/08/2011 at 09:57

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Total Organic Carbon	2.4	mg/l		0.5	11/22/2011 02:47	MSA	SM 5310C

Sample Number	Sample Description, Date and Time Collected
AD13493	Blue Ridge Paper Co. MW-13 grab, collected on 11/08/2011 at 09:59

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				12/27/2011 00:00		

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 19 pages for TOX from Test America.

Sample Number	Sample Description, Date and Time Collected
AD13494	Blue Ridge Paper Co. MW-13 grab, collected on 11/08/2011 at 10:10

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Depth to water	20.88	feet			11/08/2011 09:05	JHF	
pH (Field)	6.9	pH units		0.1	11/08/2011 09:30	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	2093	umhos/cm		10	11/08/2011 09:30	JHF	SM 2510B
Temperature (Field)	12.3	degrees C		0.1	11/08/2011 09:30	JHF	SM 2550B
Turbidity (Field)	6.8	NTU		5.0	11/08/2011 09:30	JHF	Field Screen
Nitrate-Nitrite as N	< RDL	mg/l		0.10	11/22/2011 12:40	REH	SM 4500NO3H

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: 11/09/2011
Time Received: 15:49
Date Reported: 01/05/2012

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

Sample Number	*Sample Description*
AD13495	Blue Ridge Paper Co. MW-21 grab, collected on 11/08/2011 at 10:41
AD13496	Blue Ridge Paper Co. MW-21 grab, collected on 11/08/2011 at 10:45
AD13497	Blue Ridge Paper Co. MW-21 grab, collected on 11/08/2011 at 10:46
AD13498	Blue Ridge Paper Co. MW-21 grab, collected on 11/08/2011 at 10:59
AD13499	Blue Ridge Paper Co. MW-21 grab, collected on 11/08/2011 at 11:05
AD13500	Blue Ridge Paper Co. MW-21 grab, collected on 11/08/2011 at 11:07
AD13501	Blue Ridge Paper Co. MW-21 grab, collected on 11/08/2011 at 11:12

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: Amy J Ashley
authorized signature

Results reviewed by: KLH

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Sample Number	Sample Description, Date and Time Collected
AD13495	Blue Ridge Paper Co. MW-21 grab, collected on 11/08/2011 at 10:41

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Arsenic ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Barium	0.04	mg/l		0.01	11/10/2011 12:20	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/10/2011 09:52	MER	EPA 200.8
Calcium	330	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Chromium ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Iron	14	mg/l		0.05	11/10/2011 12:20	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Magnesium	28	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Manganese	0.69	mg/l		0.02	11/10/2011 12:20	KFJ	EPA 200.7
Nickel ICPMS	0.008	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Potassium	19	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Sodium	190	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/10/2011 09:52	MER	EPA 200.8
Digestion for Metals - ICP	Completed				11/09/2011 16:53	KFJ	SM 3030C
Digestion for Metals - ICPMS	Completed				11/09/2011 16:53	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13496	Blue Ridge Paper Co. MW-21 grab, collected on 11/08/2011 at 10:45

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Mercury	< RDL	mg/l		0.0002	12/02/2011 09:32	KFJ	EPA 245.1
Digestion for Mercury	Completed				12/01/2011 11:54	KFJ	EPA 245.1

Sample Number	Sample Description, Date and Time Collected
AD13497	Blue Ridge Paper Co. MW-21 grab, collected on 11/08/2011 at 10:46

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Nitrite as N	< RDL	mg/l		0.010	11/09/2011 18:08	REH	SM 4500NO2B
Total Dissolved Solids	1820	mg/l		25	11/11/2011 09:00	JLA	SM 2540C
Chloride	73	mg/L		1.0	11/17/2011 20:25	LBW	EPA 300.0
Fluoride	< RDL	mg/l	X	1.0	11/16/2011 16:09	LBW	EPA 300.0
Sulfate	880	mg/l		1.0	11/23/2011 00:48	LBW	EPA 300.0

Sample Number	Sample Description, Date and Time Collected
AD13498	Blue Ridge Paper Co. MW-21 grab, collected on 11/08/2011 at 10:59

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Total Recoverable Phenols	< RDL	mg/l		0.005	11/15/2011 09:20	JLF	EPA 420.1

Sample Number	Sample Description, Date and Time Collected
AD13499	Blue Ridge Paper Co. MW-21 grab, collected on 11/08/2011 at 11:05

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Total Organic Carbon	2.8	mg/l		0.5	11/22/2011 03:53	MSA	SM 5310C

Sample Number	Sample Description, Date and Time Collected
AD13500	Blue Ridge Paper Co. MW-21 grab, collected on 11/08/2011 at 11:07

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				12/15/2011 00:00		

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 21 pages for TOX from Test America.

Sample Number	Sample Description, Date and Time Collected
AD13501	Blue Ridge Paper Co. MW-21 grab, collected on 11/08/2011 at 11:12

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Depth to water	10.51	feet			11/08/2011 10:21	JHF	
pH (Field)	6.6	pH units		0.1	11/08/2011 10:40	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	2191	umhos/cm		10	11/08/2011 10:40	JHF	SM 2510B
Temperature (Field)	14.9	degrees C		0.1	11/08/2011 10:40	JHF	SM 2550B
Turbidity (Field)	< RDL	NTU		5.0	11/08/2011 10:40	JHF	Field Screen
Nitrate-Nitrite as N	< RDL	mg/l		0.10	11/22/2011 12:40	REH	SM 4500NO3H

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LABORATORY SERVICES

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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

Date Received: 11/09/2011
Time Received: 15:49
Date Reported: 01/05/2012

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

Sample Number	*Sample Description*
AD13502	Blue Ridge Paper Co. MW-4 grab, collected on 11/08/2011 at 11:55
AD13503	Blue Ridge Paper Co. MW-6 grab, collected on 11/08/2011 at 14:53
AD13504	Blue Ridge Paper Co. MW-3A grab, collected on 11/08/2011 at 15:36
AD13505	Blue Ridge Paper Co. MW-8 grab, collected on 11/09/2011 at 09:30
AD13506	Blue Ridge Paper Co. MW-5A grab, collected on 11/09/2011 at 09:55
AD13507	Blue Ridge Paper Co. MW-7A grab, collected on 11/09/2011 at 10:15
AD13508	Blue Ridge Paper Co. MW-9 grab, collected on 11/09/2011 at 10:43

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: Amy J Ameen
authorized signature

Results reviewed by: KLH

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Sample Number	Sample Description, Date and Time Collected
AD13502	Blue Ridge Paper Co. MW-4 grab, collected on 11/08/2011 at 11:55

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				12/15/2011 00:00		
Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 21 pages for TOX from Test America.							
Depth to water	61.14	feet			11/07/2011 13:01	BCS	
pH (Field)	6.4	pH units		0.1	11/07/2011 16:57	BCS	SM 4500HB
Specific Conductance at 25 C (Field)	1311	umhos/cm		10	11/07/2011 16:57	BCS	SM 2510B
Temperature (Field)	14.4	degrees C		0.1	11/07/2011 16:57	BCS	SM 2550B
Turbidity (Field)	106	NTU		5.0	11/07/2011 16:57	BCS	Field Screen
Nitrate-Nitrite as N	< RDL	mg/l		0.10	11/22/2011 12:40	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l	X	0.20	11/10/2011 11:45	REH	SM 4500NO2B
Total Dissolved Solids	860	mg/l		25	11/11/2011 09:00	JLA	SM 2540C
Total Organic Carbon	5.4	mg/l		0.5	11/22/2011 04:17	MSA	SM 5310C
Total Recoverable Phenols	0.006	mg/l		0.005	11/15/2011 09:20	JLF	EPA 420.1
Chloride	71	mg/L		1.0	11/22/2011 21:12	LBW	EPA 300.0
Fluoride	< RDL	mg/l	X	0.50	11/16/2011 16:30	LBW	EPA 300.0
Sulfate	246	mg/l		1.0	11/22/2011 21:12	LBW	EPA 300.0
Arsenic ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Barium	0.03	mg/l		0.01	11/10/2011 12:20	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/10/2011 09:52	MER	EPA 200.8
Calcium	18	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Chromium ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Iron	55	mg/l		0.05	11/10/2011 12:20	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Magnesium	15	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Manganese	1.1	mg/l		0.02	11/10/2011 12:20	KFJ	EPA 200.7
Mercury	< RDL	mg/l		0.0002	12/02/2011 09:35	KFJ	EPA 245.1
Nickel ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Potassium	9.5	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Sodium	220	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/10/2011 09:52	MER	EPA 200.8
Digestion for Mercury	Completed				12/01/2011 11:54	KFJ	EPA 245.1
Digestion for Metals - ICP	Completed				11/09/2011 16:53	KFJ	SM 3030C
Digestion for Metals - ICPMS	Completed				11/09/2011 16:53	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13503	Blue Ridge Paper Co. MW-6 grab, collected on 11/08/2011 at 14:53

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				12/15/2011 00:00		
Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 21 pages for TOX from Test America.							
Depth to water	14.29	feet			11/08/2011 14:27	JHF	
pH (Field)	5.6	pH units		0.1	11/08/2011 14:51	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	537	umhos/cm		10	11/08/2011 14:51	JHF	SM 2510B
Temperature (Field)	15.5	degrees C		0.1	11/08/2011 14:51	JHF	SM 2550B
Turbidity (Field)	< RDL	NTU		5.0	11/08/2011 14:51	JHF	Field Screen
Nitrate-Nitrite as N	< RDL	mg/l		0.10	11/22/2011 12:40	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l		0.010	11/10/2011 10:20	REH	SM 4500NO2B
Total Dissolved Solids	352	mg/l		25	11/11/2011 09:00	JLA	SM 2540C
Total Organic Carbon	0.91	mg/l		0.5	11/22/2011 04:43	MSA	SM 5310C
Total Recoverable Phenols	< RDL	mg/l		0.005	11/22/2011 09:25	JLF	EPA 420.1
Chloride	91	mg/L		1.0	12/01/2011 21:45	LBW	EPA 300.0
Fluoride	< RDL	mg/l	X	0.20	11/16/2011 16:52	LBW	EPA 300.0
Sulfate	35	mg/l		1.0	11/22/2011 23:54	LBW	EPA 300.0
Arsenic ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Barium	0.12	mg/l		0.01	11/10/2011 12:20	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/10/2011 09:52	MER	EPA 200.8
Calcium	33	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Chromium ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Iron	0.66	mg/l		0.05	11/10/2011 12:20	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Magnesium	23	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Manganese	5.3	mg/l		0.02	11/10/2011 12:20	KFJ	EPA 200.7
Mercury	< RDL	mg/l		0.0002	12/02/2011 09:38	KFJ	EPA 245.1
Nickel ICPMS	0.017	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Potassium	5.7	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Sodium	23	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/10/2011 09:52	MER	EPA 200.8
Digestion for Mercury	Completed				12/01/2011 11:54	KFJ	EPA 245.1
Digestion for Metals - ICP	Completed				11/09/2011 16:53	KFJ	SM 3030C
Digestion for Metals - ICPMS	Completed				11/09/2011 16:53	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13504	Blue Ridge Paper Co. MW-3A grab, collected on 11/08/2011 at 15:36

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				12/15/2011 00:00		
Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 21 pages for TOX from Test America.							
Depth to water	7.78	feet			11/08/2011 11:32	JHF	
pH (Field)	6.4	pH units		0.1	11/08/2011 15:36	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	1121	umhos/cm		10	11/08/2011 15:36	JHF	SM 2510B
Temperature (Field)	15.8	degrees C		0.1	11/08/2011 15:36	JHF	SM 2550B
Turbidity (Field)	< RDL	NTU		5.0	11/08/2011 15:36	JHF	Field Screen
Nitrate-Nitrite as N	< RDL	mg/l		0.10	11/22/2011 12:51	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l	X	0.20	11/10/2011 12:02	REH	SM 4500NO2B
Total Dissolved Solids	824	mg/l		25	11/11/2011 09:00	JLA	SM 2540C
Total Organic Carbon	1.3	mg/l		0.5	11/22/2011 05:05	MSA	SM 5310C
Total Recoverable Phenols	< RDL	mg/l		0.005	11/22/2011 09:25	JLF	EPA 420.1
Chloride	38	mg/L		1.0	11/17/2011 20:47	LBW	EPA 300.0
Fluoride	< RDL	mg/l		0.10	11/16/2011 17:13	LBW	EPA 300.0
Sulfate	238	mg/l		1.0	11/23/2011 01:15	LBW	EPA 300.0
Arsenic ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Barium	0.06	mg/l		0.01	11/10/2011 12:20	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/10/2011 09:52	MER	EPA 200.8
Calcium	130	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Chromium ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Iron	52	mg/l		0.05	11/10/2011 12:20	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Magnesium	36	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Manganese	0.61	mg/l		0.02	11/10/2011 12:20	KFJ	EPA 200.7
Mercury	< RDL	mg/l		0.0002	12/02/2011 09:40	KFJ	EPA 245.1
Nickel ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Potassium	12	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Sodium	40	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/10/2011 09:52	MER	EPA 200.8
Digestion for Mercury	Completed				12/01/2011 11:54	KFJ	EPA 245.1
Digestion for Metals - ICP	Completed				11/09/2011 16:53	KFJ	SM 3030C
Digestion for Metals - ICPMS	Completed				11/09/2011 16:53	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13505	Blue Ridge Paper Co. MW-8 grab, collected on 11/09/2011 at 09:30

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				12/15/2011 00:00		

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 21 pages for TOX from Test America.

Depth to water	9.90	feet			11/08/2011 13:35	JHF	
pH (Field)	6.3	pH units		0.1	11/09/2011 09:30	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	93.6	umhos/cm		10	11/09/2011 09:30	JHF	SM 2510B
Temperature (Field)	15.8	degrees C		0.1	11/09/2011 09:30	JHF	SM 2550B
Turbidity (Field)	6.3	NTU		5.0	11/09/2011 09:30	JHF	Field Screen
Nitrate-Nitrite as N	< RDL	mg/l		0.10	11/22/2011 12:51	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l		0.010	11/10/2011 14:29	REH	SM 4500NO2B
Total Dissolved Solids	81	mg/l		25	11/15/2011 10:15	JLA	SM 2540C
Total Organic Carbon	0.85	mg/l		0.5	11/22/2011 05:25	MSA	SM 5310C
Total Recoverable Phenols	< RDL	mg/l		0.005	11/15/2011 09:20	JLF	EPA 420.1
Chloride	1.4	mg/L		1.0	12/01/2011 20:37	LBW	EPA 300.0
Fluoride	0.10	mg/l		0.10	11/16/2011 17:35	LBW	EPA 300.0
Sulfate	12	mg/l		1.0	11/23/2011 01:42	LBW	EPA 300.0
Arsenic ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Barium	< RDL	mg/l		0.01	11/10/2011 12:20	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/10/2011 09:52	MER	EPA 200.8
Calcium	5.1	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Chromium ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Iron	1.2	mg/l		0.05	11/10/2011 12:20	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Magnesium	1.5	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Manganese ICPMS	0.114	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Mercury	< RDL	mg/l		0.0002	12/02/2011 09:43	KFJ	EPA 245.1
Nickel ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Potassium	2.7	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Sodium	3.2	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/10/2011 09:52	MER	EPA 200.8
Digestion for Mercury	Completed				12/01/2011 11:54	KFJ	EPA 245.1
Digestion for Metals - ICP	Completed				11/09/2011 16:53	KFJ	SM 3030C
Digestion for Metals - ICPMS	Completed				11/09/2011 16:53	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13506	Blue Ridge Paper Co. MW-5A grab, collected on 11/09/2011 at 09:55

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				12/15/2011 00:00		

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 21 pages for TOX from Test America.

Depth to water	36.36	feet			11/08/2011 14:04	JHF	
pH (Field)	5.5	pH units		0.1	11/09/2011 09:55	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	551	umhos/cm		10	11/09/2011 09:55	JHF	SM 2510B
Temperature (Field)	16.4	degrees C		0.1	11/09/2011 09:55	JHF	SM 2550B
Turbidity (Field)	9.0	NTU		5.0	11/09/2011 09:55	JHF	Field Screen
Nitrate-Nitrite as N	1.2	mg/l		0.10	11/22/2011 12:51	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l		0.010	11/10/2011 14:37	REH	SM 4500NO2B
Total Dissolved Solids	284	mg/l		25	11/15/2011 10:15	JLA	SM 2540C
Total Organic Carbon	1.4	mg/l		0.5	11/22/2011 05:47	MSA	SM 5310C
Total Recoverable Phenols	< RDL	mg/l		0.005	11/15/2011 09:20	JLF	EPA 420.1
Chloride	114	mg/L		1.0	11/17/2011 21:30	LBW	EPA 300.0
Fluoride	< RDL	mg/l	X	0.50	11/16/2011 18:39	LBW	EPA 300.0
Sulfate	16	mg/l		1.0	11/23/2011 02:09	LBW	EPA 300.0
Arsenic ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Barium	0.11	mg/l		0.01	11/10/2011 12:20	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/10/2011 09:52	MER	EPA 200.8
Calcium	22	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Chromium ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Iron	0.32	mg/l		0.05	11/10/2011 12:20	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Magnesium	24	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Manganese	21	mg/l		0.02	11/10/2011 12:20	KFJ	EPA 200.7
Mercury	< RDL	mg/l		0.0002	12/02/2011 09:46	KFJ	EPA 245.1
Nickel ICPMS	0.006	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Potassium	4.4	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Sodium	19	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/10/2011 09:52	MER	EPA 200.8
Digestion for Mercury	Completed				12/01/2011 11:54	KFJ	EPA 245.1
Digestion for Metals - ICP	Completed				11/09/2011 16:53	KFJ	SM 3030C
Digestion for Metals - ICPMS	Completed				11/09/2011 16:53	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13507	Blue Ridge Paper Co. MW-7A grab, collected on 11/09/2011 at 10:15

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				12/15/2011 00:00		
Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 21 pages for TOX from Test America.							
Depth to water	11.27	feet			11/08/2011 16:19	JHF	
pH (Field)	5.6	pH units		0.1	11/09/2011 10:15	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	556	umhos/cm		10	11/09/2011 10:15	JHF	SM 2510B
Temperature (Field)	14.9	degrees C		0.1	11/09/2011 10:15	JHF	SM 2550B
Turbidity (Field)	19.7	NTU		5.0	11/09/2011 10:15	JHF	Field Screen
Nitrate-Nitrite as N	< RDL	mg/l		0.10	11/22/2011 12:51	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l		0.010	11/10/2011 14:34	REH	SM 4500NO2B
Total Dissolved Solids	334	mg/l		25	11/15/2011 10:15	JLA	SM 2540C
Total Organic Carbon	0.99	mg/l		0.5	11/22/2011 06:12	MSA	SM 5310C
Total Recoverable Phenols	< RDL	mg/l		0.005	11/15/2011 09:20	JLF	EPA 420.1
Chloride	80	mg/L		1.0	11/22/2011 19:51	LBW	EPA 300.0
Fluoride	< RDL	mg/l		0.10	11/16/2011 19:44	LBW	EPA 300.0
Sulfate	17	mg/l		1.0	11/22/2011 19:51	LBW	EPA 300.0
Arsenic ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Barium	0.11	mg/l		0.01	11/10/2011 12:20	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/10/2011 09:52	MER	EPA 200.8
Calcium	36	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Chromium ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Iron	0.45	mg/l		0.05	11/10/2011 12:20	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Magnesium	25	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Manganese	0.62	mg/l		0.02	11/10/2011 12:20	KFJ	EPA 200.7
Mercury	0.0026	mg/l		0.0002	12/02/2011 09:49	KFJ	EPA 245.1
Nickel ICPMS	0.008	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Potassium	4.9	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Sodium	20	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/10/2011 09:52	MER	EPA 200.8
Digestion for Mercury	Completed				12/01/2011 11:54	KFJ	EPA 245.1
Digestion for Metals - ICP	Completed				11/09/2011 16:53	KFJ	SM 3030C
Digestion for Metals - ICPMS	Completed				11/09/2011 16:53	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13508	Blue Ridge Paper Co. MW-9 grab, collected on 11/09/2011 at 10:43

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				12/15/2011 00:00		

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 21 pages for TOX from Test America.

Depth to water	40.39	feet			11/08/2011 16:48	JHF	
pH (Field)	6.2	pH units		0.1	11/09/2011 10:43	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	38.0	umhos/cm		10	11/09/2011 10:43	JHF	SM 2510B
Temperature (Field)	15.3	degrees C		0.1	11/09/2011 10:43	JHF	SM 2550B
Turbidity (Field)	12.7	NTU		5.0	11/09/2011 10:43	JHF	Field Screen
Nitrate-Nitrite as N	0.58	mg/l		0.10	11/22/2011 13:01	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l		0.010	11/10/2011 14:29	REH	SM 4500NO2B
Total Dissolved Solids	50	mg/l		25	11/15/2011 10:15	JLA	SM 2540C
Total Organic Carbon	0.56	mg/l		0.5	11/22/2011 07:11	MSA	SM 5310C
Total Recoverable Phenols	< RDL	mg/l		0.005	11/22/2011 09:25	JLF	EPA 420.1
Chloride	< RDL	mg/L		1.0	11/14/2011 23:39	NVQ	EPA 300.0
Fluoride	< RDL	mg/l		0.1	11/14/2011 23:39	NVQ	EPA 300.0
Sulfate	2.6	mg/l		1.0	11/14/2011 23:39	NVQ	EPA 300.0
Arsenic ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Barium	< RDL	mg/l		0.01	11/10/2011 12:20	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/10/2011 09:52	MER	EPA 200.8
Calcium	1.6	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Chromium ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Iron	0.06	mg/l		0.05	11/10/2011 12:20	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Magnesium	0.82	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Manganese ICPMS	0.018	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Mercury	< RDL	mg/l		0.0002	12/02/2011 09:52	KFJ	EPA 245.1
Nickel ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Potassium	1.8	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Sodium	1.8	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Zinc ICPMS	< RDL	mg/l		0.02	11/10/2011 09:52	MER	EPA 200.8
Digestion for Mercury	Completed				12/01/2011 11:54	KFJ	EPA 245.1
Digestion for Metals - ICP	Completed				11/09/2011 16:53	KFJ	SM 3030C
Digestion for Metals - ICPMS	Completed				11/09/2011 16:53	MER	SM 3030C

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUK1686
Client Project/Site: [none]
Client Project Description: TOX, NC

For:
Rogers & Callcott Engineers, Inc. (13572)
P.O. Box 5655
Greenville, SC 29606

Attn: Susan Gunter

Authorized for release by:
12/14/2011 4:23:41 PM

Ken A. Hayes
Senior Project Manager
ken.hayes@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUK1686-01	13500 MW-21	Water	11/08/11 11:07	11/11/11 08:30
NUK1686-02	13502 MW-4	Water	11/08/11 11:55	11/11/11 08:30
NUK1686-03	13503 MW-6	Water	11/08/11 14:53	11/11/11 08:30
NUK1686-04	13504 MW-3A	Water	11/08/11 15:36	11/11/11 08:30
NUK1686-05	13505 MW-8	Water	11/09/11 09:30	11/11/11 08:30
NUK1686-06	13506 MW-5A	Water	11/09/11 09:55	11/11/11 08:30
NUK1686-07	13507 MW-7A	Water	11/09/11 10:15	11/11/11 08:30
NUK1686-08	13508 MW-9	Water	11/09/11 10:43	11/11/11 08:30

Definitions/Glossary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Client Sample ID: 13500 MW-21

Date Collected: 11/08/11 11:07
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1686-01
Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.728		0.0300		mg/L		12/01/11 09:14	12/02/11 11:09	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Client Sample ID: 13502 MW-4

Date Collected: 11/08/11 11:55
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1686-02

Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.779		0.0300		mg/L		12/01/11 09:14	12/02/11 11:09	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Client Sample ID: 13503 MW-6

Lab Sample ID: NUK1686-03

Date Collected: 11/08/11 14:53
Date Received: 11/11/11 08:30

Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.244		0.0300		mg/L		12/01/11 09:14	12/02/11 11:09	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Client Sample ID: 13504 MW-3A

Date Collected: 11/08/11 15:36
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1686-04
Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.581		0.0300		mg/L		12/01/11 09:14	12/02/11 11:09	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Client Sample ID: 13505 MW-8

Date Collected: 11/09/11 09:30
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1686-05
Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.0450		0.0300		mg/L		12/01/11 09:14	12/02/11 11:09	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Client Sample ID: 13506 MW-5A

Date Collected: 11/09/11 09:55
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1686-06

Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.764		0.0300		mg/L		12/01/11 09:14	12/02/11 11:09	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Client Sample ID: 13507 MW-7A

Date Collected: 11/09/11 10:15
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1686-07
Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.645		0.0300		mg/L		12/01/11 09:14	12/02/11 11:09	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Client Sample ID: 13508 MW-9

Date Collected: 11/09/11 10:43
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1686-08
Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.0777		0.0300		mg/L		12/01/11 09:14	12/02/11 11:09	1.00

QC Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Method: SW846 9020B - General Chemistry Parameters

Lab Sample ID: 11L0040-BLK1
Matrix: Water
Analysis Batch: 11L0040

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11L0040_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	<0.0300		0.0300		mg/L		12/01/11 09:14	12/02/11 11:09	1.00

Lab Sample ID: 11L0040-BS1
Matrix: Water
Analysis Batch: 11L0040

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11L0040_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Halides	0.250	0.258		mg/L		103	90 - 120

Lab Sample ID: 11L0040-BSD1
Matrix: Water
Analysis Batch: 11L0040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 11L0040_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Halides	0.250	0.243		mg/L		97	90 - 120	6	20

QC Association Summary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

WetChem

Analysis Batch: 11L0040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L0040-BLK1	Method Blank	Total	Water	SW846 9020B	11L0040_P
11L0040-BS1	Lab Control Sample	Total	Water	SW846 9020B	11L0040_P
11L0040-BSD1	Lab Control Sample Dup	Total	Water	SW846 9020B	11L0040_P
NUK1686-01	13500 MW-21	Total	Water	SW846 9020B	11L0040_P
NUK1686-02	13502 MW-4	Total	Water	SW846 9020B	11L0040_P
NUK1686-03	13503 MW-6	Total	Water	SW846 9020B	11L0040_P
NUK1686-04	13504 MW-3A	Total	Water	SW846 9020B	11L0040_P
NUK1686-05	13505 MW-8	Total	Water	SW846 9020B	11L0040_P
NUK1686-06	13506 MW-5A	Total	Water	SW846 9020B	11L0040_P
NUK1686-07	13507 MW-7A	Total	Water	SW846 9020B	11L0040_P
NUK1686-08	13508 MW-9	Total	Water	SW846 9020B	11L0040_P

Prep Batch: 11L0040_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L0040-BLK1	Method Blank	Total	Water	NO PREP	
11L0040-BS1	Lab Control Sample	Total	Water	NO PREP	
11L0040-BSD1	Lab Control Sample Dup	Total	Water	NO PREP	
NUK1686-01	13500 MW-21	Total	Water	NO PREP	
NUK1686-02	13502 MW-4	Total	Water	NO PREP	
NUK1686-03	13503 MW-6	Total	Water	NO PREP	
NUK1686-04	13504 MW-3A	Total	Water	NO PREP	
NUK1686-05	13505 MW-8	Total	Water	NO PREP	
NUK1686-06	13506 MW-5A	Total	Water	NO PREP	
NUK1686-07	13507 MW-7A	Total	Water	NO PREP	
NUK1686-08	13508 MW-9	Total	Water	NO PREP	

Lab Chronicle

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Client Sample ID: 13500 MW-21

Lab Sample ID: NUK1686-01
Matrix: Water

Date Collected: 11/08/11 11:07
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11L0040_P	12/01/11 09:14	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11L0040	12/02/11 11:09	SHJ	TAL NSH

Client Sample ID: 13502 MW-4

Lab Sample ID: NUK1686-02
Matrix: Water

Date Collected: 11/08/11 11:55
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11L0040_P	12/01/11 09:14	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11L0040	12/02/11 11:09	SHJ	TAL NSH

Client Sample ID: 13503 MW-6

Lab Sample ID: NUK1686-03
Matrix: Water

Date Collected: 11/08/11 14:53
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11L0040_P	12/01/11 09:14	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11L0040	12/02/11 11:09	SHJ	TAL NSH

Client Sample ID: 13504 MW-3A

Lab Sample ID: NUK1686-04
Matrix: Water

Date Collected: 11/08/11 15:36
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11L0040_P	12/01/11 09:14	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11L0040	12/02/11 11:09	SHJ	TAL NSH

Client Sample ID: 13505 MW-8

Lab Sample ID: NUK1686-05
Matrix: Water

Date Collected: 11/09/11 09:30
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11L0040_P	12/01/11 09:14	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11L0040	12/02/11 11:09	SHJ	TAL NSH

Client Sample ID: 13506 MW-5A

Lab Sample ID: NUK1686-06
Matrix: Water

Date Collected: 11/09/11 09:55
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11L0040_P	12/01/11 09:14	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11L0040	12/02/11 11:09	SHJ	TAL NSH

Lab Chronicle

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Client Sample ID: 13507 MW-7A

Lab Sample ID: NUK1686-07
Matrix: Water

Date Collected: 11/09/11 10:15
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11L0040_P	12/01/11 09:14	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11L0040	12/02/11 11:09	SHJ	TAL NSH

Client Sample ID: 13508 MW-9

Lab Sample ID: NUK1686-08
Matrix: Water

Date Collected: 11/09/11 10:43
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11L0040_P	12/01/11 09:14	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11L0040	12/02/11 11:09	SHJ	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Method	Method Description	Protocol	Laboratory
SW846 9020B	General Chemistry Parameters		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

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Certification Summary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1686

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA - LAP	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Canada (CALA)	Canada (CALA)		3744
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECE

NUK1686

Cooler Received/Opened On 11/11/2011 @ 0830

1. Tracking # 7750 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 97310166

2. Temperature of rep. sample or temp blank when opened: 3.0 *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 (initial) DA

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 (initial) JH

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 (initial) JH

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 (initial) JH

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

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

BIS = Broken in shipment

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: R+C

Address:

Report To: SUSAN GUNTER

Telephone No.: FAX No.:

PO No.: Project No.:

NUK1686
12/13/11 23:59

Filtered (Yes/No)	N
Cooled (Yes/No)	Y
Container Type (P/G)	G
Container Volume	1L
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)	C

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–____

Rogers & Callcott Lab No.	Yr. 11 Date	Time	Sample Description	Total Number of Containers	PARAMETERS: TOX	COMMENTS:
13500	11.8	1107	MW-21	1	1	SUB TO TEST AMERICA
13502	↓	1155	MW-4	1	1	
13503	↓	1453	MW-6	1	1	
13504	↓	1536	MW-3A	1	1	
13505	11.9	0930	MW-8	1	1	NC SAMPLES
13506	↓	0955	MW-5A	1	1	
13507	↓	~~1043~~ 1015	MW-7A	1	1	

KRD 11.10

SAMPLER Relinquished by (Sig.) ①	Date/Time 11.10.11 1530	Received by (Sig.) ② / Shipper Name & #	Date/Time 11/11/11 08:30
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

Temp 3.0

KNOWN HAZARDS ASSOCIATED WITH SAMPLES

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt 3.0 °C

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

Form Revised July 2008

R/C COC FORM

Page 20 of 21

12/14/2011

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: R+C

Address:

Report To: SUSAN GUNTER

Telephone No.: FAX No.:

PO No.: Project No.:

Rogers & Callcott Lab No.	Yr. 11 Date	Time	Sample Description	Total Number of Containers	PARAMETERS: TOX										
					C										
Filtered (Yes/No)					N										
Cooled (Yes/No)					Y										
Container Type (P/G)					G										
Container Volume					1L										
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															
AD 13508	11.9	1043	MW-9	1	1										SUB TO TEST AMERICA
															N/C SAMPLE

NUK1686
12/13/11 23:59

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]	11.10.11 1530	② [signature]	11/11/11 08:30
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 3.0 °C

Form Revised July 2008

R/C COC FORM

12/14/2011

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. 11 Date	Time	Sample Description	Total Number of Containers	Total Metals ⊗	Hg	Chloride/Fluoride/TDS/NO2/SO4	Phenols	TOC	TOX ⊗	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	250	½	1L	250	1L	250	
			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	1	NA	
			Lab Receipt pH Check		12	12	NA	12	12	1	12	
			Preserved (Code)		B	B	A	C	I	C	C	
AD 13488	11-8	0932	MW-13	1	1							Field Data Collected
13489		0936	MW-13	1		1						⊗ As, Ba, Cd, Ca, Cr, Co, Fe, Pb,
13490		0938	MW-13	1			1					Mg, Mn, Ni, K, Se, Ag, Na, Zn
13491		0949	MW-13	1				1				
13492		0957	MW-13	1					1			
13493		0959	MW-13	1						1		
13494		1010	MW-13	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– phenylin Acid

	Date/Time		Date/Time
SAMPLER Relinquished by (Sig.) ①	11-9-11 1347	Received by (Sig.) ② Shipper Name & #	11-9-11 1347
Relinquished by (Sig.) ③	11-9-11 1549	Received by (Sig.) ④ Shipper Name & #	11.9.11 1549
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

⊗ subcontracted

Temperature of blank or representative sample

At time of collection ____ °C

At time of lab receipt -0.2 °C not known

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: Caston, NC

Report To:

Telephone No. FAX No.

PO No. Project No. 04-159

								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	250	1/2	1L	250	1L	250	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	I	NA	Lab Receipt Cl_2 Check			
								12	12	NA	12	12	I	12	Lab Receipt pH Check			
								B	B	A	C	I	C	C	Preserved (Code)			
Rogers & Callcott Lab No.	Yr 11 Date	Time	Sample Description	Total Number of Containers	PARAMETERS	Total Metals *	Hg	Chloride/Fluoride/TDS/NO_3/SO_4	Phenols	TOC	TOX Ⓡ	NO_3	COMMENTS:					
AD 13495	11-8	1041	MW-21	1		1							Field Data Collected					
13496		1045	MW-21	1			1						* As, Ba, Cd, Ca, Cr, Cu, Fe, Pb, Mg					
13497		1046	MW-21	1				1					Mn, Ni, K, Se, Ag, Na, Zn					
13498		1059	MW-21	1					1									
13499		1105	MW-21	1						1								
13500		1107	MW-21	1							1							
13501		1112	MW-21	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

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.) / Shipper Name & #	Date/Time
①	11-9-11 1347	② / Shipper Name & #	11-9-11 1347
Relinquished by (Sig.) ③	11-9-11 1549	Received by (Sig.) ④ / Shipper Name & #	11.9.11 1549
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

Ⓡ subcontracted

Temperature of blank or representative sample

At time of collection ____ °C

At time of lab receipt -0.2 °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

	Total Metals*	Hg	Chloride/Fluoride/TDS/NO2/SO4	Phenols	TOC	TOX ®	NO3
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	250	1/2	1L	250	1L	250
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	NA	<2	<2	/	<2
Preserved (Code)	D	B	A	C	I	C	C

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

Rogers & Callcott Lab No.	Yr. 11 Date	Time	Sample Description	Total Number of Containers	Total Metals*	Hg	Chloride/Fluoride/TDS/NO2/SO4	Phenols	TOC	TOX	NO3	Comments
AD 13502	11-8	1155	MW-4	7	1	1	1	1	1	1	1	Field Data Collected
13503		1453	MW-6	7	1	1	1	1	1	1	1	* As, Ba, Cd, Ca, Cr, Cu, Fe, Pb, Mg,
13504		1536	MW-3A	7	1	1	1	1	1	1	1	Mn, Ni, K, Se, Ag, Na, Zn
13505	11-9	0930	MW-8	7	1	1	1	1	1	1	1	
13506		0955	MW-5A	7	1	1	1	1	1	1	1	
13507		1015	MW-7A	7	1	1	1	1	1	1	1	
13508		1043	MW-9	7	1	1	1	1	1	1	1	

	Date/Time		Date/Time
SAMPLER Relinquished by (Sig.) ① [signature]	11-9-11 1347	Received by (Sig.) ② [signature] Shipper Name & #	11-9-11 1347
Relinquished by (Sig.) ③ [signature]	11-9-11 1549	Received by (Sig.) ④ [signature] Shipper Name & #	11.9.11 1549
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

® Subcontracted

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt -0.2 °C not avail

Well Number: MW-13

☐ Development
☒ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Page 1 of 16

Date: 11-8-11

Field Personnel: JHF

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): 20.88 @ 0905
Total Depth of Well (b): 36.40
Length of Water Column in Well (b-a): 15.52
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	NA	3600 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
11-8-11	0910	NA	180	20.88	0.0	6.79	10.3	2210	NA	NA	NA	1	172	
11-8-11	0915	1	180	21.41	900	6.83	11.7	2117	NA	NA	NA	1	21.2	
11-8-11	0920	2	180	21.44	1800	6.86	12.2	2103	NA	NA	NA	1	16.9	
11-8-11	0925	3	180	21.48	2700	6.88	12.3	2096	NA	NA	NA	1	12.8	
11-8-11	0930	4	180	21.51	3600	6.87	12.3	2093	NA	NA	NA	1	6.75	
							11-8-11							

Weather Conditions/~Temp: Sunny 139 °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 - 0932 Hg - 0936 Chloride/Fluoride/TDS/NO_2/SO_4 - 0938 Phenols - 0949

TOC - 0957 TOX - 0959 NO_3 - 1010

Comments

Reviewed by: _____ Date: _____

Revised 2/3/09

Well Number: MW-21 ☐ Development ☒ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-8-11 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): 10.51 @ 1021
Total Depth of Well (b): 28.58
Length of Water Column in Well (b-a): 18.07
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	NA	2700 mls

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
11-8-11	1025	NA	180	10.51	0.0	6.63	14.6	2210	NA	NA	NA	1	8.69	
11-8-11	1030	1	180	10.80	900	6.64	14.7	2205	NA	NA	NA	1	5.06	
11-8-11	1035	2	180	10.90	1800	6.66	15.1	2194	NA	NA	NA	1	<5.0	
11-8-11	1040	3	180	10.96	2700	6.65	14.9	2191	NA	NA	NA	1	<5.0	
								11-8-11						

Weather Conditions/~Temp: Sunny / 44 °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 - 1041 Hg - 1045 Chloride/Fluoride/TDS/NO_3/SO_4 - 1046 Phenols - 1059
TOC - 1105 TOX - 1107 NO_3 - 1112

Comments

Reviewed by: ____ Date: ____

Revised 2/3/09

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-4

☐ Development
☒ Purging

Date: 11/7/2011 - 11/8/2011 Field Personnel: BCS / SHF

Site Name/Location: BRPC

Page 1 of 1

For Low Flow Sampling: Page ~~1~~ 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 on 11/7/2011

Initial Depth to Ground Water (a): 61.14 @ 1301
Total Depth of Well (b): 83.89
Length of Water Column in Well (b-a): 22.75
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	3.7	
3 Casing Vol	11.1	18.5

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
11/7/2011	1612 ~~1412~~ BCS 11/7/11	NA	NA	61.14	0.0	6.40	15.2	866	NA	NA	NA	1	13.0	
	1621	1		NA	3.7	6.41	14.8	947				1	117	
	1631	2			7.4	6.42	14.6	1163				1	106	
	1640	3			11.1	6.40	14.5	1377				1	30.7	
	1648	4			14.8	6.41	14.5	1333				1	77.5	
	1657	5			18.5	6.43	14.4	1311				1	106	
11/8/2011	1155	NA			Sample	NA	NA	NA				1	26.9	Sample

Weather Conditions/~Temp: Clear 160's °F

11-8-11

* 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 1155

Comments

Reviewed by: _____ Date: _____

Revised 2/3/09

Well Number: MW-6 ☐ Development ☒ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-8-11 Field Personnel: JHF

Site Name/Location: BRPL

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): 14.29 @ 1427
Total Depth of Well (b): 20.69
Length of Water Column in Well (b-a): 6.4
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	1.0	
3 Casing Vol	3.0	3.0

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
11-8-11	1432	NA	0.14	14.29	0.0	5.52	16.8	515	NA	NA	NA	1	28.5	
11-8-11	1439	1	0.14	NA	1.0	5.52	15.8	529	NA	NA	NA	1	8.96	
11-8-11	1445	2	0.16	NA	2.0	5.53	15.4	536	NA	NA	NA	1	5.49	
11-8-11	1451	3	0.16	NA	3.0	5.57	15.5	537	NA	NA	NA	1	<5.0	
								11-8-11						

Weather Conditions/~Temp: Sunny / 59 °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 1453

Comments

Reviewed by: _____ Date: _____

Revised 2/3/09

Well Number: MW-3A

☐ Development
☒ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-8-11 Field Personnel: JHF

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): 7.78 @ 1132
Total Depth of Well (b): 20.30
Length of Water Column in Well (b-a): 12.52
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	2.0	
3 Casing Vol	6.0	2.0

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
11-8-11	1136	NA	NA	NA	0.0	6.64	16.2	1066	NA	NA	NA	1	6.01	
11-8-11	1139	1	NA	NA	2.0	6.63	14.6	1088	NA	NA	NA	1	30.9	Dry
11-8-11	~~1534~~	2	NA	NA	Sample	6.44	15.8	1121	NA	NA	NA	1	<5.0	Sample
	1536 JHF 11-8-11													
								11-8-11						

Weather Conditions/~Temp: Partly Cloudy / 51 °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 1536

Comments

Reviewed by: _____ Date: _____

Revised 2/3/09

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-12

☐ Development
☒ Purging

Date: 11/8/2011

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): 11.55 @ 1035
Total Depth of Well (b): 29.08
Length of Water Column in Well (b-a): 17.53
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	2.9	
3 Casing Vol	8.7	11.6

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
11/8/2011	1047	NA	0.7	11.55	0.0	6.02	13.6	246.2	NA	NA	NA	1	<5.0	
	1051	1	0.7	14.61	2.9	5.90	13.9	260.1				1	19.3	
	1056	2	0.6	14.66	5.8	5.93	14.0	302.9				1	19.9	
	1101	3	0.6	14.66	8.7	5.92	14.0	311.9				1	<5.0	
	1106	4	0.6	14.67	11.6	5.91	14.0	316.6				1	<5.0	

11/8/2011

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

Weather Conditions/~Temp: Clear 150's °F

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

Sample Collection Time 1108

Comments Phenols dup

Reviewed by: ____ Date: ____

Revised 2/3/09

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-20

☐ Development
☒ Purging

Date: 11/8/2011 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): 45.30 @ 1127
Total Depth of Well (b): 61.58
Length of Water Column in Well (b-a): 16.28
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	10.6	
3 Casing Vol	31.8	42.4

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
11/8/2011	1137	NA	1.5	45.30	~~10.6~~ 0.0 BCS 11/8/11	6.27	14.6	89.5	NA	NA	NA	1	76.3	
↓	1144	1	1.5	47.60	10.6	6.47	14.6	79.7	↓	↓	↓	1	7.01	
↓	1151	2	1.5	48.17	21.2	6.47	14.6	87.6	↓	↓	↓	1	<5.0	
↓	1158	3	1.5	48.68	31.8	6.49	14.5	89.6	↓	↓	↓	1	<5.0	
↓	1205	4	1.5	49.08	42.4	6.47	14.4	91.1	↓	↓	↓	1	<5.0	

11/8/2011

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 1206

Comments

Reviewed by: ____ Date: ____

Revised 2/3/09

FIELD DATA LOG FOR GROUND WATER SAMPLIN

ROGERS & CALLCOTT ENGINEERS, IN

For Low Flow Sampling: Page 1 of

Well Number: MW-16S

☐ Development
☒ Purging

Date: 11/8/2011

Field Personnel: BCS

Site Name/Location: BRPC

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): 57.90 @0857
Total Depth of Well (b): 70.42
Length of Water Column in Well (b-a): 12.52
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		2625

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/ Ligl 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)	Co
11/8/2011	1559	NA	175	57.90	0.0	6.62	15.2	3725	NA	NA	NA	2	<5.0	
↓	1604	1	175	58.30	875	6.64	14.8	4262	↓	↓	↓	2	5.25	
↓	1609	2	175	58.41	1750	6.65	14.7	4140	↓	↓	↓	2	<5.0	
↓	1614	3	175	58.59	2625	6.60	14.9	4040	↓	↓	↓	2	<5.0	

11/8/2011

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

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

Well Yield: (Low/ Moderate/ High)

Sample Clarity: Clear / Yellow tint

Precipitate: None

Fe^{+2} mg/L= NA

Sample Collection Time Total Metals - 1615 ; Total Hg - 1617 ; Cl, F, TDS, NO_2, SO_4 - ~~1619~~ 1619 BCS 11/8/2011 ; Phenols - 1630 ; TOC - 1636 ; TOX - 1638 ; NO_3 - 1644

Comments

Reviewed by: _____ Date: _____

Revised 2/3/09

Well Number: MW-18

☐ Development
☒ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11/9/2011 Field Personnel: BCS

Page 9 of 9

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): 76.69 @ 1711 on 11/8/2011
Total Depth of Well (b): 112.45
Length of Water Column in Well (b-a): 35.76
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		2625

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
11/9/2011	0915	NA	175	76.71	0.0	6.72	12.5	1690	NA	NA	NA	1	43.7	
	0920	1	175	76.94	875	6.60	13.8	1710				1	<5.0	
	0925	2	175	77.07	1750	6.62	14.1	1712				1	<5.0	
	0930	3	175	77.21	2625	6.63	14.3	1708				1	<5.0	

Brad Gill 11/9/2011

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= NA

Sample Collection Time Total Metals - 0931; Total Hg - 0934; Cl, F, TDS, NO_2, SO_4 - 0936; Phenols - 0946; TOC - 0953; TOX - 0955; NO_3 - 1001

Comments Pump in well @ 1715 on 11/8/2011

Reviewed by: _____ Date: _____

Revised 2/3/09

Well Number: MW-1A

☐ Development
☒ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11/8/2011-11/9/2011 Field Personnel: BCS

Page 7 of 9

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): 61.67 @ 1449
Total Depth of Well (b): 71.93
Length of Water Column in Well (b-a): 10.26
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	1.7	
3 Casing Vol	5.1	5.1

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
11/8/2011	1453	NA	0.4	61.67	0.0	6.01	17.8	34.4	NA	NA	NA	1	127	
↓	1457	1	0.4	64.21	1.7	6.01	15.4	33.0	↓	↓	↓	1	111	
↓	1501	2	0.4	64.35	3.4	6.02	15.5	33.7	↓	↓	↓	1	50.0	
↓	1507	3	0.3	64.47	5.1	6.01	15.7	33.3	↓	↓	↓	1	108	
11/9/2011	1100	NA	NA	NA	Sample	NA	NA	NA	↓	↓	↓	1	102	Sample

Weather Conditions/~Temp: Clear 1505 °F

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

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

Sample Collection Time 1100

Comments

Reviewed by: _____ Date: _____

Revised 2/3/09

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Well Number: MW-16

☐ Development
☒ Purging

Date: 11/8/2011-11/9/2011 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): 38.78 @ 1322
Total Depth of Well (b): 74.42
Length of Water Column in Well (b-a): 35.64
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	5.8	
3 Casing Vol	17.4	23.2

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
11/9/2011	1330	NA	1.5	38.78	0.0	5.96	14.7	35.7	NA	NA	NA	1	13.2	
↓	1334	1	1.5	41.75	5.8	5.98	13.2	34.7	↓	↓	↓	1	7.32	
↓	1338	2	1.5	41.80	11.6	6.06	12.9	34.3	↓	↓	↓	1	32.5	
↓	1342	3	1.5	41.90 ~~42.90~~ BCS 11/8/11	17.4	6.02	12.9	34.0	↓	↓	↓	1	38.1	
↓	1357	4	0.4	NA	23.2	5.98	14.5	33.9	↓	↓	↓	1	90.2	
11/9/2011	1120	NA	NA	NA	Sample	NA	NA	NA				1	12.9	Sample

* 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 1120

Comments

Reviewed by: ____ Date: ____

Revised 2/3/09

Well Number: MW-11

☐ Development
☒ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11/8/2011-11/9/2011 Field Personnel: BCS

Page 6 of 9

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): 13.74 @ 1347
Total Depth of Well (b): 21.62
Length of Water Column in Well (b-a): 7.88
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
11/8/2011	1405	NA	NA	13.74	0.0	5.38	14.4	48.8	NA	NA	NA	1	107	
↓	1407	1	↓	Dry	1.3	5.43	14.3	46.3	↓	↓	↓	1	182	Dry
11/9/2011	1140	NA	↓	NA	Sample	5.80	14.9	68.6	↓	↓	↓	1	5.88	Sample

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 1140

Comments

Reviewed by: _____ Date: _____

Revised 2/3/09

Rogers and Callcott Engineers

Field Meter Calibration Record

Client: BRPC **Date:** 11/8/2011

Conductivity Meter Calibration
EPA 9050A

Meter Make / Model: YSI EC300 SN: 5C01963 Probe: 360-4m 08L100071

Time: 0708 Analyst: BCS Cell Constant 5.02

Chemical Inventory	Conc. of Standard, µmhos/cm @25°C		Actual Reading of Standard, µmhos/cm	Actual Reading of Standard, @ Temperature, °C
110825	10.35		10.7	21.4
110832	99.4		100.1	21.4
110833	998		996	21.5
110827	SSS conc:	447	447.0	21.5

Temperature compensation for conductivity meter : Ø

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

pH Meter Calibration
EPA 9040C

Meter Make / Model: YSI pH100 SN: 5C03182 Probe: YSI 605377 10F

Time: 0706 Analyst: BCS Slope: 99.3

Chemical Inventory	Conc. of Buffer, units		Actual Reading of Buffer, units
111007	4.0		3.99
110869	7.0		7.02
110870	10.0		9.98
110947	SSS conc:	7.0	7.02

Temperature compensation for pH meter : 20.2

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: 11/2/2011

Time: 0710 Analyst: BCS

Chemical Inventory	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
110105	4.47	4.69
110106	47.7	51.7
110107	470	468

Reviewed by: _____ Date: _____

Revised 03/18/09

Rogers and Callcott Engineers

Continuing Calibration Verification

Client: BRPC **Date:** 11/8/2011

Conductivity Meter
EPA 9050A

Meter Make / Model: YSI EC300 SN: 5C01963 Probe: 300-4M 08L100071

Time	Analyst	Conc. of Standard, µmhos/cm @25°C	Actual Reading of Standard, µmhos/cm
1213	BCS	99.4	100.3 @ 16.8 °C
1622	BCS	998	991 @ 19.8 °C

pH Meter
EPA 9040C

Meter Make / Model: YSI pH100 SN: 5C03192 Probe: YSI 605377 10F

Time	Analyst	Conc. of Buffer, units	Actual Reading of Buffer, units
1213	BCS	7.0	7.05
1622	BCS	4.0	4.03

Turbidity Meter
Field Screen Method

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

Time	Analyst	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
1213	BCS	47.7	50.4
1622	BCS	4.47	4.71

Field Duplicate

Well ID: MW-16D

Time	Analyst	Conductivity, µmhos/cm	pH, units	Turbidity, NTU	Temperature, °C
0845	BCS	1619	6.96	<5.0	12.5

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

Reviewed by: _____ Date: _____

Revised 03/18/09

Rogers and Callcott Engineers
Field Meter Calibration Record

Client: BRPC **Date:** 11/9/2011

Conductivity Meter Calibration
EPA 9050A

Meter Make / Model: YSI EC300 SN: 5C01963 Probe: 300-4M 08L100071

Time: 0902 Analyst: BCS Cell Constant 5.02

Chemical Inventory	Conc. of Standard, µmhos/cm @25°C		Actual Reading of Standard, µmhos/cm	@ Temperature, °C
110828	10.35		10.7	16.1
110832	99.4		100.2	16.1
110833	998		996	15.6
110827	SSS conc:	447	445.6	16.0

Temperature compensation for conductivity meter : Ø

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 10F

Time: 0901 Analyst: BCS Slope: 98.9

Chemical Inventory	Conc. of Buffer, units		Actual Reading of Buffer, units
111007	4.0		3.99
110869	7.0		6.99
110870	10.0		9.98
110947	SSS conc:	7.0	7.01

Temperature compensation for pH meter : +0.2

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: 11/2/2011

Time: 0900 Analyst: BCS

Chemical Inventory	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
110105	4.47	4.78
110106	47.7	50.2
110107	470	472

Reviewed by: _____ Date: _____

Revised 03/18/09

Rogers and Callcott Engineers

Continuing Calibration Verification

Client: BRPC **Date:** 11/9/2011

Conductivity Meter
EPA 9050A

Meter Make / Model: YSI EC300 SN: 5C01963 Probe: 300-4M 08L100071

Time	Analyst	Conc. of Standard, µmhos/cm @25°C	Actual Reading of Standard, µmhos/cm		
1255	BCS	99.4	100.4	@	14.5 °C
1515	BCS	998	997	@	16.7 °C

pH Meter
EPA 9040C

Meter Make / Model: YSI pH100 SN: 5C03192 Probe: YSI 605377 10F

Time	Analyst	Conc. of Buffer, units	Actual Reading of Buffer, units
1255	BCS	7.0	7.03
1515	BCS	4.00 BCS 11/9/2011 ~~9.00 10.00~~	3.99

Turbidity Meter
Field Screen Method

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

Time	Analyst	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
1255	BCS	47.7	51.8
1515	BCS	4.47	4.68

Field Duplicate

Well ID: MW-18

Time	Analyst	Conductivity, µmhos/cm	pH, units	Turbidity, NTU	Temperature, °C
0930	BCS	1708	6.62	<5.0	14.6

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

Reviewed by: _____ Date: _____

Revised 03/18/09

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: 11/09/2011
Time Received: 17:00
Date Reported: 01/05/2012

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

Sample Number	*Sample Description*
AD13543	Blue Ridge Paper Co. Underflow Drain grab, collected on 11/09/2011 at 11:20
AD13544	Blue Ridge Paper Co. Landfill Leachate grab, collected on 11/09/2011 at 12:00
AD13545	Blue Ridge Paper Co. Underflow Drain grab, collected on 11/09/2011 at 11:20
AD13546	Blue Ridge Paper Co. Landfill Leachate grab, collected on 11/09/2011 at 12:00
AD13547	Blue Ridge Paper Co. MW-2 grab, collected on 11/09/2011 at 12:35

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: Amy Z Amley
authorized signature

Results reviewed by: KLH

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Sample Number	Sample Description, Date and Time Collected
AD13543	Blue Ridge Paper Co. Underflow Drain grab, collected on 11/09/2011 at 11:20

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				12/27/2011 00:00		
Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 19 pages for TOX from Test America.							
pH (Field)	6.4	pH units		0.1	11/09/2011 11:20	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	86.4	umhos/cm		10	11/09/2011 11:20	JHF	SM 2510B
Temperature (Field)	20.9	degrees C		0.1	11/09/2011 11:20	JHF	SM 2550B
Turbidity (Field)	< RDL	NTU		5.0	11/09/2011 11:20	JHF	Field Screen
Nitrate-Nitrite as N	0.44	mg/l		0.10	11/22/2011 15:53	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l		0.010	11/10/2011 14:34	REH	SM 4500NO2B
Total Dissolved Solids	47	mg/l		25	11/15/2011 10:15	JLA	SM 2540C
Total Organic Carbon	< RDL	mg/l		0.5	11/22/2011 12:29	MSA	SM 5310C
Total Recoverable Phenols	< RDL	mg/l		0.005	11/14/2011 09:05	JLF	EPA 420.1
Chloride	11	mg/L		1.0	11/18/2011 00:44	LBW	EPA 300.0
Fluoride	< RDL	mg/l		0.10	11/16/2011 22:58	LBW	EPA 300.0
Sulfate	2.8	mg/l		1.0	11/23/2011 04:51	LBW	EPA 300.0
Arsenic ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Barium	0.05	mg/l		0.01	11/10/2011 12:20	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l		0.001	11/10/2011 09:52	MER	EPA 200.8
Calcium	4.6	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Chromium ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Copper ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Iron	< RDL	mg/l		0.05	11/10/2011 12:20	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Magnesium	2.5	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Manganese ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Mercury	< RDL	mg/l		0.0002	12/02/2011 10:39	KFJ	EPA 245.1
Nickel ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Potassium	2.1	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Selenium ICPMS	< RDL	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Sodium	3.6	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Zinc	0.06	mg/l		0.02	11/10/2011 12:20	KFJ	EPA 200.7
Digestion for Mercury	Completed				12/01/2011 11:54	KFJ	EPA 245.1
Digestion for Metals - ICP	Completed				11/10/2011 08:06	KFJ	SM 3030C
Digestion for Metals - ICPMS	Completed				11/10/2011 08:06	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13544	Blue Ridge Paper Co. Landfill Leachate grab, collected on 11/09/2011 at 12:00

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				12/27/2011 00:00		
Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 19 pages for TOX from Test America.							
pH (Field)	7.9	pH units		0.1	11/09/2011 12:00	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	21800	umhos/cm		10	11/09/2011 12:00	JHF	SM 2510B
Temperature (Field)	20.9	degrees C		0.1	11/09/2011 12:00	JHF	SM 2550B
Turbidity (Field)	32.7	NTU		5.0	11/09/2011 12:00	JHF	Field Screen
Nitrate-Nitrite as N	< RDL	mg/l		0.10	11/22/2011 15:53	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l	X	0.10	11/10/2011 16:00	REH	SM 4500NO2B
Total Dissolved Solids	17100	mg/l		25	11/15/2011 10:15	JLA	SM 2540C
Total Organic Carbon	80	mg/l		0.5	11/24/2011 15:07	MSA	SM 5310C
Total Recoverable Phenols	< RDL	mg/l		0.010	11/14/2011 09:05	JLF	EPA 420.1
Chloride	118	mg/L		1.0	11/18/2011 01:05	LBW	EPA 300.0
Fluoride	< RDL	mg/l	X	5.0	11/16/2011 23:20	LBW	EPA 300.0
Sulfate	1310	mg/l		1.0	11/23/2011 05:18	LBW	EPA 300.0
Arsenic	0.99	mg/l		0.05	11/10/2011 12:20	KFJ	EPA 200.7
Barium	0.05	mg/l		0.01	11/10/2011 12:20	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l	X	0.01	11/10/2011 09:52	MER	EPA 200.8
Calcium	30	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Chromium	< RDL	mg/l	X	0.10	11/10/2011 12:20	KFJ	EPA 200.7
Copper	< RDL	mg/l	X	0.05	11/10/2011 12:20	KFJ	EPA 200.7
Iron	< RDL	mg/l	X	0.25	11/10/2011 12:20	KFJ	EPA 200.7
Lead ICPMS	< RDL	mg/l	X	0.05	11/10/2011 09:52	MER	EPA 200.8
Magnesium	200	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Manganese	0.18	mg/l		0.02	11/10/2011 12:20	KFJ	EPA 200.7
Mercury	< RDL	mg/l	X	0.002	12/02/2011 10:53	KFJ	EPA 245.1
Nickel	< RDL	mg/l	X	0.10	11/10/2011 12:20	KFJ	EPA 200.7
Potassium	520	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Selenium	< RDL	mg/l	X	0.25	11/10/2011 12:20	KFJ	EPA 200.7
Silver ICPMS	< RDL	mg/l	X	0.02	11/10/2011 09:52	MER	EPA 200.8
Sodium	7100	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Zinc	< RDL	mg/l	X	0.10	11/10/2011 12:20	KFJ	EPA 200.7
Digestion for Mercury	Completed				12/01/2011 14:24	KFJ	EPA 245.1
Digestion for Metals - ICP	Completed				11/10/2011 08:06	KFJ	SM 3030C
Digestion for Metals - ICPMS	Completed				11/10/2011 08:06	MER	SM 3030C

Sample Number	Sample Description, Date and Time Collected
AD13545	Blue Ridge Paper Co. Underflow Drain grab, collected on 11/09/2011 at 11:20

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
BOD, 5 Day	< RDL	mg/l		2.0	11/10/2011 13:44	MSA	SM 5210B
COD	< RDL	mg/l		20	11/17/2011 09:45	JLA	EPA 410.4

Sample Number	Sample Description, Date and Time Collected
AD13546	Blue Ridge Paper Co. Landfill Leachate grab, collected on 11/09/2011 at 12:00

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
BOD, 5 Day	60	mg/l		2.0	11/10/2011 13:47	MSA	SM 5210B
COD	305	mg/l		20	11/17/2011 09:45	JLA	EPA 410.4
Total Phosphorus as P	42	mg/l		0.02	11/15/2011 14:55	REH	SM 4500PE

Sample Number	Sample Description, Date and Time Collected
AD13547	Blue Ridge Paper Co. MW-2 grab, collected on 11/09/2011 at 12:35

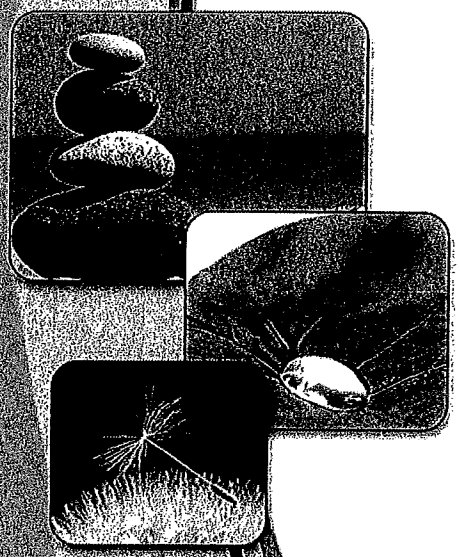
Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Subcontracted Sample Analysis	Completed				12/27/2011 00:00		

Analysis comment for Subcontracted Sample Analysis: See enclosed subcontract report which includes a total of 19 pages for TOX from Test America.

Depth to water	4.59	feet			11/08/2011 17:25	JHF	
pH (Field)	9.9	pH units		0.1	11/09/2011 12:35	JHF	SM 4500HB
Specific Conductance at 25 C (Field)	8020	umhos/cm		10	11/09/2011 12:35	JHF	SM 2510B
Temperature (Field)	15.3	degrees C		0.1	11/09/2011 12:35	JHF	SM 2550B
Turbidity (Field)	10.1	NTU		5.0	11/09/2011 12:35	JHF	Field Screen
Nitrate-Nitrite as N	< RDL	mg/l	X	0.20	11/22/2011 16:19	REH	SM 4500NO3H
Nitrite as N	< RDL	mg/l	X	0.050	11/10/2011 15:33	REH	SM 4500NO2B
Total Dissolved Solids	5420	mg/l		25	11/15/2011 10:15	JLA	SM 2540C
Total Organic Carbon	144	mg/l		0.5	11/24/2011 15:27	MSA	SM 5310C
Total Recoverable Phenols	0.016	mg/l		0.005	11/14/2011 09:05	JLF	EPA 420.1
Chloride	201	mg/L		1.0	12/01/2011 23:15	LBW	EPA 300.0
Fluoride	5.3	mg/l		0.10	11/16/2011 23:41	LBW	EPA 300.0
Sulfate	162	mg/l		1.0	11/22/2011 23:27	LBW	EPA 300.0
Arsenic ICPMS	0.017	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Barium	< RDL	mg/l		0.01	11/10/2011 12:20	KFJ	EPA 200.7
Cadmium ICPMS	< RDL	mg/l	X	0.002	11/10/2011 09:52	MER	EPA 200.8
Calcium	2.8	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Chromium ICPMS	0.015	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8

Sample Number	Sample Description, Date and Time Collected
AD13547	Blue Ridge Paper Co. MW-2 grab, collected on 11/09/2011 at 12:35

Parameter	Result	Unit	Flag	RDL	Date/Time	Analyst	Method
Copper ICPMS	0.007	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Iron	1.3	mg/l		0.05	11/10/2011 12:20	KFJ	EPA 200.7
Lead ICPMS	0.006	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Magnesium	0.15	mg/l		0.10	11/10/2011 12:20	KFJ	EPA 200.7
Manganese ICPMS	0.027	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Mercury	< RDL	mg/l		0.0002	12/02/2011 10:56	KFJ	EPA 245.1
Nickel ICPMS	0.120	mg/l		0.005	11/10/2011 09:52	MER	EPA 200.8
Potassium	66	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Selenium ICPMS	0.011	mg/l	X	0.005	11/10/2011 09:52	MER	EPA 200.8
Silver ICPMS	< RDL	mg/l		0.002	11/10/2011 09:52	MER	EPA 200.8
Sodium	2400	mg/l		0.50	11/10/2011 12:20	KFJ	EPA 200.7
Zinc	0.03	mg/l		0.02	11/10/2011 12:20	KFJ	EPA 200.7
Digestion for Mercury	Completed				12/01/2011 14:24	KFJ	EPA 245.1
Digestion for Metals - ICP	Completed				11/10/2011 09:22	KFJ	SM 3030C
Digestion for Metals - ICPMS	Completed				11/10/2011 09:22	MER	SM 3030C



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUK1701
Client Project/Site: [none]
Client Project Description: TOX, NC

For:
Rogers & Callcott Engineers, Inc. (13572)
P.O. Box 5655
Greenville, SC 29606

Attn: Susan Gunter

Authorized for release by:
12/22/2011 3:08:17 PM

Ken A. Hayes
Senior Project Manager
ken.hayes@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUK1701-01	13533 MW-1A	Water	11/09/11 11:00	11/11/11 08:30
NUK1701-02	13534 MW-10	Water	11/09/11 11:20	11/11/11 08:30
NUK1701-03	13535 MW-11	Water	11/09/11 11:40	11/11/11 08:30
NUK1701-04	13543 Underflow Drain	Water	11/09/11 11:20	11/11/11 08:30
NUK1701-05	13544 Landfill Leachate	Water	11/09/11 12:00	11/11/11 08:30
NUK1701-06	13547 MW-2	Water	11/09/11 12:35	11/11/11 08:30
NUK1701-07	13493 MW-13	Water	11/08/11 09:59	11/11/11 08:30

Definitions/Glossary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

Qualifiers

WetChem

Qualifier	Qualifier Description
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
S7	Sample breakthrough to 2nd section is > 10%. Results may be biased low.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

Client Sample ID: 13533 MW-1A
Date Collected: 11/09/11 11:00
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1701-01
Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.0792	S7	0.0300		mg/L		12/05/11 08:26	12/05/11 08:26	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

Client Sample ID: 13534 MW-10
Date Collected: 11/09/11 11:20
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1701-02
Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.0725	S7	0.0300		mg/L		12/05/11 08:26	12/05/11 08:26	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

Client Sample ID: 13535 MW-11

Date Collected: 11/09/11 11:40
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1701-03
Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.0619	S7	0.0300		mg/L		12/05/11 08:26	12/05/11 08:26	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

Client Sample ID: 13543 Underflow Drain

Date Collected: 11/09/11 11:20
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1701-04
Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.137	S7	0.0300		mg/L		12/06/11 10:03	12/06/11 13:32	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

Client Sample ID: 13544 Landfill Leachate
Date Collected: 11/09/11 12:00
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1701-05
Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	1.67	S7	0.0600		mg/L		12/06/11 10:03	12/06/11 13:32	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

Client Sample ID: 13547 MW-2

Date Collected: 11/09/11 12:35
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1701-06

Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.555	S7	0.0600		mg/L		12/06/11 10:03	12/06/11 13:32	1.00

Client Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

Client Sample ID: 13493 MW-13
Date Collected: 11/08/11 09:59
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1701-07
Matrix: Water

5

Method: SW846 9020B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	0.485	S7	0.0300		mg/L		12/05/11 08:26	12/05/11 08:26	1.00

QC Sample Results

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

Method: SW846 9020B - General Chemistry Parameters

Lab Sample ID: 11L1286-BLK1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11L1286 — **Prep Batch: 11L1286_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halides	<0.0300		0.0300		mg/L		12/05/11 08:26	12/05/11 08:26	1.00

Lab Sample ID: 11L1286-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11L1286 — **Prep Batch: 11L1286_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Halides	0.250	0.268		mg/L		107	90 - 120

Lab Sample ID: 11L1286-BSD1 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11L1286 — **Prep Batch: 11L1286_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Halides	0.250	0.249		mg/L		100	90 - 120	7	20

Lab Sample ID: 11L1286-MS1 — **Client Sample ID: 13533 MW-1A**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11L1286 — **Prep Batch: 11L1286_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Halides	0.0792	S7	0.100	0.127	M8	mg/L		48	70 - 130

QC Association Summary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

WetChem

Analysis Batch: 11L1286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L1286-BLK1	Method Blank	Total	Water	SW846 9020B	11L1286_P
11L1286-BS1	Lab Control Sample	Total	Water	SW846 9020B	11L1286_P
11L1286-BSD1	Lab Control Sample Dup	Total	Water	SW846 9020B	11L1286_P
11L1286-MS1	13533 MW-1A	Total	Water	SW846 9020B	11L1286_P
NUK1701-01	13533 MW-1A	Total	Water	SW846 9020B	11L1286_P
NUK1701-02	13534 MW-10	Total	Water	SW846 9020B	11L1286_P
NUK1701-03	13535 MW-11	Total	Water	SW846 9020B	11L1286_P
NUK1701-04	13543 Underflow Drain	Total	Water	SW846 9020B	11L1286_P
NUK1701-05	13544 Landfill Leachate	Total	Water	SW846 9020B	11L1286_P
NUK1701-06	13547 MW-2	Total	Water	SW846 9020B	11L1286_P
NUK1701-07	13493 MW-13	Total	Water	SW846 9020B	11L1286_P

Prep Batch: 11L1286_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11L1286-BLK1	Method Blank	Total	Water	NO PREP	
11L1286-BS1	Lab Control Sample	Total	Water	NO PREP	
11L1286-BSD1	Lab Control Sample Dup	Total	Water	NO PREP	
11L1286-MS1	13533 MW-1A	Total	Water	NO PREP	
NUK1701-01	13533 MW-1A	Total	Water	NO PREP	
NUK1701-02	13534 MW-10	Total	Water	NO PREP	
NUK1701-03	13535 MW-11	Total	Water	NO PREP	
NUK1701-04	13543 Underflow Drain	Total	Water	NO PREP	
NUK1701-05	13544 Landfill Leachate	Total	Water	NO PREP	
NUK1701-06	13547 MW-2	Total	Water	NO PREP	
NUK1701-07	13493 MW-13	Total	Water	NO PREP	

Lab Chronicle

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

Client Sample ID: 13533 MW-1A — Lab Sample ID: NUK1701-01

Date Collected: 11/09/11 11:00 — **Matrix: Water**
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	SW846 9020B		1.00	11L1286	12/05/11 08:26	SHJ	TAL NSH
Total	Prep	NO PREP		1.00	11L1286_P	12/05/11 08:26	SHJ	TAL NSH

Client Sample ID: 13534 MW-10 — Lab Sample ID: NUK1701-02

Date Collected: 11/09/11 11:20 — **Matrix: Water**
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	SW846 9020B		1.00	11L1286	12/05/11 08:26	SHJ	TAL NSH
Total	Prep	NO PREP		1.00	11L1286_P	12/05/11 08:26	SHJ	TAL NSH

Client Sample ID: 13535 MW-11 — Lab Sample ID: NUK1701-03

Date Collected: 11/09/11 11:40 — **Matrix: Water**
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	SW846 9020B		1.00	11L1286	12/05/11 08:26	SHJ	TAL NSH
Total	Prep	NO PREP		1.00	11L1286_P	12/05/11 08:26	SHJ	TAL NSH

Client Sample ID: 13543 Underflow Drain — Lab Sample ID: NUK1701-04

Date Collected: 11/09/11 11:20 — **Matrix: Water**
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		1.00	11L1286_P	12/06/11 10:03	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11L1286	12/06/11 13:32	SHJ	TAL NSH

Client Sample ID: 13544 Landfill Leachate — Lab Sample ID: NUK1701-05

Date Collected: 11/09/11 12:00 — **Matrix: Water**
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		2.00	11L1286_P	12/06/11 10:03	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11L1286	12/06/11 13:32	SHJ	TAL NSH

Client Sample ID: 13547 MW-2 — Lab Sample ID: NUK1701-06

Date Collected: 11/09/11 12:35 — **Matrix: Water**
Date Received: 11/11/11 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	NO PREP		2.00	11L1286_P	12/06/11 10:03	SHJ	TAL NSH
Total	Analysis	SW846 9020B		1.00	11L1286	12/06/11 13:32	SHJ	TAL NSH

Lab Chronicle

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

Client Sample ID: 13493 MW-13

Date Collected: 11/08/11 09:59
Date Received: 11/11/11 08:30

Lab Sample ID: NUK1701-07

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	SW846 9020B		1.00	11L1286	12/05/11 08:26	SHJ	TAL NSH
Total	Prep	NO PREP		1.00	11L1286_P	12/05/11 08:26	SHJ	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Method Summary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

Method	Method Description	Protocol	Laboratory
SW846 9020B	General Chemistry Parameters		TAL NSH

Protocol References:

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

Certification Summary

Client: Rogers & Callcott Engineers, Inc. (13572)
Project/Site: [none]

TestAmerica Job ID: NUK1701

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA - LAP	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Canada (CALA)	Canada (CALA)		3744
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEI

NUK1701

Cooler Received/Opened On 11/11/2011 @ 08:30

1. Tracking # 7933 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 96210146

2. Temperature of rep. sample or temp blank when opened: 3.3 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) PH

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) JH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA Landfill Leachate cause up 27 instead of 22

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) JH

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) JH

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

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# 61564

JH 11/12/11 JH 11/12/11

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

12/22/2011

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.:

Rogers & Callcott Lab No.	Yr. 11 Date	Time	Sample Description NUK1701 12/13/11 23:59	Total Number of Containers	PARAMETERS: TOX							COMMENTS:
Filtered (Yes/No)					N							
Cooled (Yes/No)					Y							
Container Type (P/G)					G							
Container Volume					1L							
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)					C							
1 AD	13533	11.9	1100	MW-1A	1	1						SUB TO TEST AMERICA
2	13534		1120	MW-10	1	1						
3	13535		1140	MW-11	1	1						
4 AD	13543	11.9	1120	UNDERFLOW DRAIN	1	1						NC SAMPLES
5	13544		1200	LANDFILL LEACHATE	1	1						
6	13547		1235	MW-2	1	1						
7	13493	11.8	0959	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– ____

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
① [signature]	11.10.11 1530	② [signature] Shipper Name & #	11/11/11 08:30
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 3.3 °C

Form Revised July 2008

R/C COC FORM

12/22/2011

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 11 Date	Time	Sample Description	Total Number of Containers	Total Metals	Ag	Chloride/Fluoride/TDS/NO_2/SO_4	Phenols	TOC	TOX	NO_3	COMMENTS
					B	B	A	C	I	C	C	
					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	250	½	1L	250	1L	250	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 MAA 11-10-11
				UNDER Flow →	<2	<2	NA	<2	<2	/	<2	Lab Receipt pH Check
				LEACHATE	(**)	(***)		(**)	(**)		(***)	
AD ↓ 13543	11-9	1120	Under Flow Drain	8	1	1.57	1.N	2.41	1.P	1	1.62	FEW Data Collected
13544	↓	1200	Landfill Leachate	7	1	1↓	1↓	1↓	1↓	1	1↓	☆ As, Ba, Cd, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Ag, Na, Zn

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

(**) Added ADDITIONAL HNO_3 @ 0820 11-10-11 PH STILL NEUTRAL. MAA - diluted & PH @ bench.

(***) DILUTE & PRES @ BENCH MAA 11/10/11

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
① [signature]	11-9-11 1700	② [signature] Shipper Name & #	11.9.11 1700
Relinquished by (Sig.) ③		Received by (Sig.) ④ Shipper Name & #	
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

(*) Subcontracted

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt −0.9 Not Frozen °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. 11 Date	Time	Sample Description	Total Number of Containers	PARAMETERS: COD	BOD	COD/Phosphate					
Filtered (Yes/No)					N	N	N					
Cooled (Yes/No)					Y	Y	Y					
Container Type (P/G)					P	P	P					
Container Volume					250	½	500					
Sample Type (Grab/Composite)					G	G	G					
Sample Source (WW, GW, DW, Other)					GW	GW	GW					
Sample Source Chlorinated (Yes/No)					N	N	N					
Lab Receipt Cl_2 Check					NA	NA	NA					
Lab Receipt pH Check					~~2~~	*	*					
Preserved (Code)					C	A	C					
AD	13545	11-9	1120	Under Flow Drain	2	1	1					
	13546		1200	Land Fill Leachate	2		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– ____

COMMENTS:

(*) dilute & pH @ bench 11/10/11

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
①	11-9-11 1700	② Shipper Name & #	11.9.11 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 -0.9 not frozen °C

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 11 Date	Time	Sample Description	Total Number of Containers	PARAMETERS: Total Metals	Hg	Chloride/Fluoride TDS/NO2/SO4	Phenols	TOC	TOX	NO3	
					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	250	½	1L	250	1L	250	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 Cl2 Check mal 11-10-11
					<2	<2	NA	<2	<2	/	<2	Lab Receipt pH Check
					B	B	A	C	I	C	C	Preserved (Code)
AD 13547	11-9	1235	MW-2	7	1	1-22	1	1-6	1-P	1	1-G2	Field Data Collected

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

COMMENTS:

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

SAMPLER Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time
① [signature]	11-9-11 1700	② [signature] Shipper Name & #	11.9.11 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

* Subcontracted

Temperature of blank or representative sample
At time of collection ____ °C
At time of lab receipt 0.9 °C

Form Revised July 2008

R/C COC FORM

Well Number: Under Flow Drain ☐ Development ☑ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-9-11 Field Personnel: JHF

Site Name/Location: BAPC

For Low Flow Sampling: Page 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)

☑ Surface Water Grab

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): @
Total Depth of Well (b):
Length of Water Column in Well (b-a):
Well Casing Diameter (inches):
Depth to Immiscible Layer:

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

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
11-9-11	1120	NA	NA	NA	NA	6.42	20.9	86.4	NA	NA	NA	1	<5.0	

Weather Conditions/~Temp: Sunny 154 °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 1120

Comments

Reviewed by: _____ Date: _____

Revised 2/3/09

Well Number: Landfill Leachate ☐ Development ☒ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-9-11 Field Personnel: JAF

Site Name/Location: BHPC

For Low Flow Sampling: Page 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)

☒ Grab Sample

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): @
Total Depth of Well (b):
Length of Water Column in Well (b-a):
Well Casing Diameter (inches):
Depth to Immiscible Layer:

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

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
11-9-11	1200	NA	NA	NA	NA	7.86	20.9	21810	NA	NA	NA	3*	32.7	
							11-9-11							

Weather Conditions/~Temp: Mostly Cloudy / 60 °F

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

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

Sample Collection Time 1200

Comments * Rotten Eggs smell.

Reviewed by: Date:

Revised 2/3/09

Well Number: MW-2 ☐ Development ☒ Purging

FIELD DATA LOG FOR GROUND WATER SAMPLING

ROGERS & CALLCOTT ENGINEERS, INC.

Date: 11-8-11 Field Personnel: JHF / 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): 4.59 @ 1725
Total Depth of Well (b): 11.86
Length of Water Column in Well (b-a): 7.27
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	1.2	
3 Casing Vol	3.6	1.2

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
11-8-11	1732	NA	NA	NA	0.0	9.88	13.6	8340	NA	NA	NA	3	10.6	
11-8-11	1733	1	NA	NA	1.2	9.88	13.5	8310	NA	NA	NA	3	13.1	Dry
11-9-11	1235	2	NA	NA	Sample	9.87	15.3	8020	NA	NA	NA	3	10.1	Sample

Weather Conditions/~Temp: Sunny 160 °F

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

Well Yield: (Low/ Moderate/ High) Sample Clarity: Brown (Looks like Tea) Precipitate: None Fe^{+2} mg/L= NA

Sample Collection Time 1235

Comments Sulfur smell. Collected Samples with Peristaltic Pump

Reviewed by: _____ Date: _____

Revised 2/3/09

Rogers and Callcott Engineers

Continuing Calibration Verification

Client: BRPC **Date:** 11-7-11

Conductivity Meter
EPA 9050A

Meter Make / Model: Orion 4 Star SN: A12882 Probe: PT1-11328

Time	Analyst	Conc. of Standard, µmhos/cm @25°C	Actual Reading of Standard, µmhos/cm
1223	JHF	99.4	99.5 @ 22.2 °C
1703	JHF	998	1011 @ 19.9 °C

pH Meter
EPA 9040C

Meter Make / Model: Orion 4 Star Probe: 605377 09J

Time	Analyst	Conc. of Buffer, units	Actual Reading of Buffer, units
1224	JHF	7.0	6.97
1702	JHF	4.0	4.06

Turbidity Meter
Field Screen Method

Meter Make / Model: Hach 2100P SN: 98070001 88 69

Time	Analyst	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
1222	JHF	44.8	45.9
1702	JHF	4.49	4.85

Field Duplicate

Well ID: BB-4

Time	Analyst	Conductivity, µmhos/cm	pH, units	Turbidity, NTU	Temperature, °C
1432	JHF	130.6	7.38	6.51	11.8

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

Reviewed by: _____ Date: _____

Rogers and Callcott Engineers

Field Meter Calibration Record

Client: BRPC **Date:** 11-8-11

Conductivity Calibration - EPA 9050A

Meter Make / Model: Orion 4 Star SN: A12882 Probe: PTI-11328

Time: 0839 Analyst: JHF Cell Constant 0.463

Chemical Inventory	Conc. of Standard, µmhos/cm @25°C		Actual Reading of Standard, µmhos/cm	Actual Reading of Standard, @ Temperature, °C
11-08-28	10.35		10.19	19.5
11-08-32	99.4		101.1	17.6
11-08-33	998		1018	19.6
11-08-27	SSS conc:	447	470	20.6

Temperature compensation for pH / conductivity meter : -0.1

pH Calibration - EPA 9040C

Meter Make / Model: Orion 4 Star Probe: 605377 095

Time: 0835 Analyst: JHF Slope: 99.2

Chemical Inventory	Conc. of Buffer, units		Actual Reading of Buffer, units
11-10-07	4.0		4.00
11-08-69	7.0		7.04
11-08-70	10.0		10.06
11-09-47	SSS conc:	7.0	7.04

Turbidity Meter Calibration
Field Screen Method

Meter Make / Model: Hach 2100P SN: 9807000188 69 Date of most recent calibration: 10-28-11

Time: 0842 Analyst: JHF

Chemical Inventory	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
11-02-01	4.63	4.68
11-02-02	45.4	48.5
11-02-03	474	478

Reviewed by: _____ Date: _____

Rogers and Callcott Engineers

Continuing Calibration Verification

Client: BRPC **Date:** 11-8-11

Conductivity Meter
EPA 9050A

Meter Make / Model: Orion 4 Star SN: A12882 Probe: PTI- 11328

Time	Analyst	Conc. of Standard, µmhos/cm @25°C	Actual Reading of Standard, µmhos/cm
1323	JHF	99.4	99.8 @ 22.3 °C
1740	JHF	998	994 @ 22.9 °C

pH Meter
EPA 9040C

Meter Make / Model: Orion 4 Star Probe: 605377-095

Time	Analyst	Conc. of Buffer, units	Actual Reading of Buffer, units
1327	JHF	7.0	6.93
1739	JHF	4.0	3.99

Turbidity Meter
Field Screen Method

Meter Make / Model: Hach 2100P SN: 98070001 8869

Time	Analyst	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
1324	JHF	45.4	47.5
1738	JHF	4.63	4.98

Field Duplicate

Well ID: MW-3A

Time	Analyst	Conductivity, µmhos/cm	pH, units	Turbidity, NTU	Temperature, °C
1535	JHF	1145	6.49	<5.0	14.8

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

Reviewed by: _____ Date: _____

Revised 08/03/11

Rogers and Callcott Engineers
Field Meter Calibration Record

Client: BRPC **Date:** 11-9-11

Conductivity Calibration - EPA 9050A

Meter Make / Model: Orion 4 Star SN: A12882 Probe: PT 1-11 328
Time: 0911 Analyst: JHF Cell Constant 0.456

Chemical Inventory	Conc. of Standard, µmhos/cm @25°C		Actual Reading of Standard, µmhos/cm	Actual Reading of Standard, @ Temperature, °C
11-08-28	10.35		9.68	16.3
11-08-32	99.4		102.0	16.4
11-08-33	998		993	14.9
11-08-27	SSS conc:	447	454	15.0

Temperature compensation for pH / conductivity meter : -0.1

pH Calibration - EPA 9040C

Meter Make / Model: Orion 4 Star Probe: 605377 09J
Time: 0902 Analyst: JHF Slope: 99.0

Chemical Inventory	Conc. of Buffer, units		Actual Reading of Buffer, units
11-10-07	4.0		4.02
11-08-69	7.0		7.04
11-08-70	10.0		10.06
11-09-47	SSS conc:	7.0	7.05

Turbidity Meter Calibration
Field Screen Method

Meter Make / Model: Hach 2100P SN: 98 07000188 69 Date of most recent calibration: 10-28-11
Time: 0859 Analyst: JHF

Chemical Inventory	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
11-02-01	4.63	4.49
11-02-02	45.4	43.7
11-02-03	474	474

Reviewed by: _____ Date: _____

Rogers and Callcott Engineers

Continuing Calibration Verification

Client: BRPC

Date: 11-9-11

Conductivity Meter
EPA 9050A

Meter Make / Model: Orion 4 Star SN: A12882 Probe: PT1-11328

Time	Analyst	Conc. of Standard, µmhos/cm @25°C	Actual Reading of Standard, µmhos/cm
1339	JAF	99.4	101.9 @ 18.5 °C
1438	JAF	998	980 @ 18.8 °C

pH Meter
EPA 9040C

Meter Make / Model: Orion 4 Star Probe: 605377 09J

Time	Analyst	Conc. of Buffer, units	Actual Reading of Buffer, units
1340	JAF	7.0	7.06
1438	JAF	4.0	4.03

Turbidity Meter
Field Screen Method

Meter Make / Model: Hach 2100P SN: 98070001886 9

Time	Analyst	Assigned Conc. of Standard, NTU	Actual Reading of Standard, NTU
1339	JAF	45.4	45.7
1440	JAF	4.63	4.66

Field Duplicate

Well ID: Under Flow Drain

Time	Analyst	Conductivity, µmhos/cm	pH, units	Turbidity, NTU	Temperature, °C
1122	JAF	81.1	6.58	<5.0	20.7

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

Reviewed by: _____ Date: _____

Revised 08/03/11