DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Resolve Environmental Services, PLLC

RECEIVED MAR 26 2012 SOLID WASTE SECTION

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Laura Minor Phone: 704-289-5881

E-mail: resolve@carolina.rr.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Warren County Landfill	S.R. 1600/559 Baltimore Road Warrenton, NC	93-01	.1600	2/17/12

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☐ Detection Monitoring ☒ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☒ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Marshall Brothers — Public Works Director — 252-257-1948

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

Signature — Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 435 GEOLOGIST TERRY D. KENNEDY

559 Baltimore Road, Warrenton, NC 27589

Facility Representative Address

NC Geological Co. C-416 (Resolve Environmental Services, PLLC): Terry Kennedy

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

Resolve Environmental Services, PLLC
410 East Franklin Street
Monroe, North Carolina 28112
(704) 289-5881 phone
(704) 292-2910 fax
www.resolvepllc.com

March 15, 2012

RECEIVED
MAR 26 2012
SOLID WASTE SECTION

Ms. Jacqueline Smith
539 Baltimore Road
Warrenton, NC 27589

Re: Water Supply Well Sampling Results
539 Baltimore Road, Warrenton, NC

Dear Ms. Smith:

This letter is to inform you of the recent water supply well (WSW-1) sampling results conducted on February 17, 2012. Resolve Environmental Services, PLLC (Resolve) has been contracted by the Warren County Solid Waste Department to conduct semi-annual ground water sampling activities at their facility. The water supply well connected to your residence was included in the sampling schedule.

No detectable concentrations of requested method constituents were reported in the ground water sample. A copy of the applicable analytical laboratory results has been included as an attachment. This information has been submitted to the NCDENR Solid Waste Section and will be maintained in their files.

As part of the ongoing sampling schedule at Warren County Landfill, WSW-1 is scheduled to be sampled again in August 2012. The analytical results will be forwarded to you following the receipt of the analytical report. If you have any questions, please call me at (704) 289-5881.

Sincerely,
Resolve Environmental Services, PLLC

Laura Minor

cc: Mr. Ervin Lane, NCDENR-Division of Waste Management/Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646
Mr. Marshall Brothers, Warren County Solid Waste Department, 559 Baltimore Road, Warrenton, North Carolina 27589

attachment

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-1		
Lab Sample ID:	F90485-8	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C085171.D	1	02/24/12	WV	n/a	n/a	VC3394
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone [a]	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl iodide	ND	1.0	0.20	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-1		
Lab Sample ID:	F90485-8	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
78-93-3	Methyl ethyl ketone [a]	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-1		
Lab Sample ID:	F90485-8	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
		Percent Solids:	n/a
Project:	Warren County; Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 1.0	1.0	ug/l	2	02/24/12	02/25/12	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA9600
(2) Instrument QC Batch: N:MA28029
(3) Prep QC Batch: MP22300
(4) Prep QC Batch: N:MP62884

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

Resolve Environmental Services, PLLC

410 East Franklin Street
Monroe, NC 28112
(704) 289-5881 phone
(704) 292-2910 fax
www.resolvepllc.com

March 19, 2012

Mr. Ervin Lane
Compliance Hydrogeologist
NCDENR
Division of Waste Management
Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

RECEIVED
MAR 26 2012
SOLID WASTE SECTION

Re: ***First Semi-Annual 2012 Ground Water Monitoring Event***
Warren County Closed Sanitary Landfill
Warrenton, North Carolina
Facility Permit# 93-01
Resolve Project No 765.16

Dear Mr. Lane:

Please find the attached First Semi-Annual 2012 Ground Water Monitoring Report conducted at the Warren County Closed Sanitary Landfill in February 2012. Also included in this package is a copy of the *"Water Supply Well Sampling Results"* letter based on the February 2012 sampling of the water supply well located at 539 Baltimore Road. Please note that the original Environmental Monitoring Reporting Form associated with the February 2012 sampling event will be mailed to you separately. You should receive it in the following week. Please call if you have any questions or require any additional information at (704) 289-5881.

Sincerely,
Resolve Environmental Services, PLLC

Laura Minor
Project Manager

Enclosures

Resolve Environmental Services, PLLC

410 East Franklin Street
Monroe, NC 28112
(704) 289-5881 phone
(704) 292-2910 fax
www.resolvepllc.com

March 19, 2012

Mr. Marshall Brothers
Warren County Solid Waste Department
559 Baltimore Road
Warrenton, North Carolina 27589

Re: First Semi-Annual 2012 Ground Water Monitoring Event
Warren County Closed Sanitary Landfill
Warrenton, North Carolina
Resolve Project No 765.16

Dear Mr. Brothers:

Resolve Environmental Services, PLLC (Resolve) respectfully presents results of the first semi-annual 2012 ground water monitoring event conducted at the Warren County Closed Sanitary Landfill (CSL) located in Warrenton, North Carolina (**Figure 1**). The ground water monitoring activities were conducted in general accordance with North Carolina Department of Environment and Natural Resources' (NCDENR), Division of Solid Waste Management guidelines.

Gauging and Sampling

On February 17, 2012, Resolve personnel collected ground water samples from on-site monitoring wells MW-1A, MW-2, MW-3, and MW-4. In addition, three surface water samples (SW-1 through SW-3) were collected along the tributary of Possumquarter Creek during the February 2012 site visit. A ground water sample was also collected from the nearby water supply well (WSW-1) located on the adjacent residential property to the northwest (539 Baltimore Avenue). A Site Map is provided as **Figure 2**.

Prior to collecting ground water samples from the monitoring wells, water levels were measured in each well from the top of the well casing. Based on the depth to water gauging data, Resolve personnel calculated the volume of standing water in each monitoring well. Prior to sampling, each well was purged of at least three well volumes or until bailed dry using a new, disposable Teflon™ bailer. As generated, the purge water was discharged to the ground surface at the respective wellheads. For quality control purposes, one equipment blank was collected prior to the initiation of ground water sampling activities by passing distilled water provided by the laboratory through a clean, Teflon™ bailer. The surface water samples were collected using grab sample techniques. All collected samples were placed directly into laboratory supplied glassware and placed on ice for transport to a North Carolina certified laboratory for analyses. Prior to sample collection in each monitoring well, field parameters including temperature, pH, and specific conductance were measured using calibrated field instrumentation. Well gauging data and measured field parameters are summarized in **Table 1**.

The collected ground water samples and equipment blank were analyzed for the presence of Appendix I volatile organic compounds (VOCs) including tetrahydrofuran by EPA Method 8260B and Appendix I metals by EPA Methods 6010, as required by the NCDENR. The samples were analyzed by Accutest Laboratories, LLC (Accutest) of Orlando, Florida. Accutest is a North Carolina certified laboratory. A trip blank was also submitted to the laboratory for analysis of Appendix I VOCs by Method 8260B.

Results

Based upon the laboratory analytical report, detectable concentrations of Appendix I VOCs and/or metals were reported in each of the collected samples as summarized below.

MW-1A:

Detectable concentrations of benzene, p-dichlorobenzene, cis-1,2-dichloroethylene, trichloroethylene, barium, beryllium, chromium, copper, lead, vanadium and zinc were reported in the ground water sample collected from MW-1A. **The concentration of benzene exceeds the North Carolina ground water quality standards (NCGWQS) established in T15A NCAC 2L.0202.** None of the remaining detectable concentrations exceeded the NCGWQS, if established. Currently, there is no NCGWQS for vanadium or beryllium, therefore the concentrations are reportable.

MW-2:

Detectable concentrations of benzene, chlorobenzene, chloroethane, 1,1-dichloroethane, p-dichlorobenzene, cis-1,2-dichloroethylene, trichloroethylene, barium, cobalt and zinc were reported in the ground water sample collected from MW-2. **The concentration of benzene exceeded the NCGWQS.** None of the remaining concentrations of detectable concentrations exceeded the NCGWQS, if established. Currently, there are no NCGWQS for chloroethane and cobalt, therefore the concentrations are reportable.

MW-3:

Detectable concentrations of benzene, chlorobenzene, chloroethane, 1,1-dichloroethane, p-dichlorobenzene, cis-1,2-dichloroethylene and tetrahydrofuran were reported in the ground water sample collected from MW-3. None of the reported concentrations exceeded the established NCGWQS. There are no NCGWQS for chloroethane or tetrahydrofuran, therefore the concentrations are reportable.

MW-4:

Detectable concentrations of benzene, 1,1-dichloroethane, cis-1,2-dichloroethylene, barium, chromium, copper, lead, nickel, vanadium and zinc were reported in the ground water sample from MW-4. **The concentrations of chromium and lead exceed the established NCGWS**. Currently, there is no NCGWQS for vanadium.

WSW-1:

No detectable concentrations of requested method constituents were reported in the ground water sample collected from WSW-1.

SW-1:

A detectable concentration of zinc was reported in the surface water sample collected from SW-1. The concentration did not exceed the NCGWQS.

SW-2:

Detectable concentrations of cobalt, lead and zinc were reported in the surface water sample collected from SW-2. The concentrations of lead and zinc did not exceed the NCGWQS. Currently, there is no NCGWQS for cobalt.

SW-3:
No detectable concentrations of requested method constituents were reported in the surface water sample collected from SW-3.

Equipment Blank:
No detectable concentrations of requested method constituents were reported in the equipment blank.

The current laboratory analytical results are summarized in **Table 2**. Historical laboratory data is summarized in **Table 3**. A water quality map based upon results of the February 17, 2012 sampling event presented as **Figure 3**. A copy of the laboratory analytical report is attached as **Appendix A**.

Based upon the current sampling data, a ground water quality violation (benzene, chromium and lead) exists at the site. Continued monitoring is recommended.

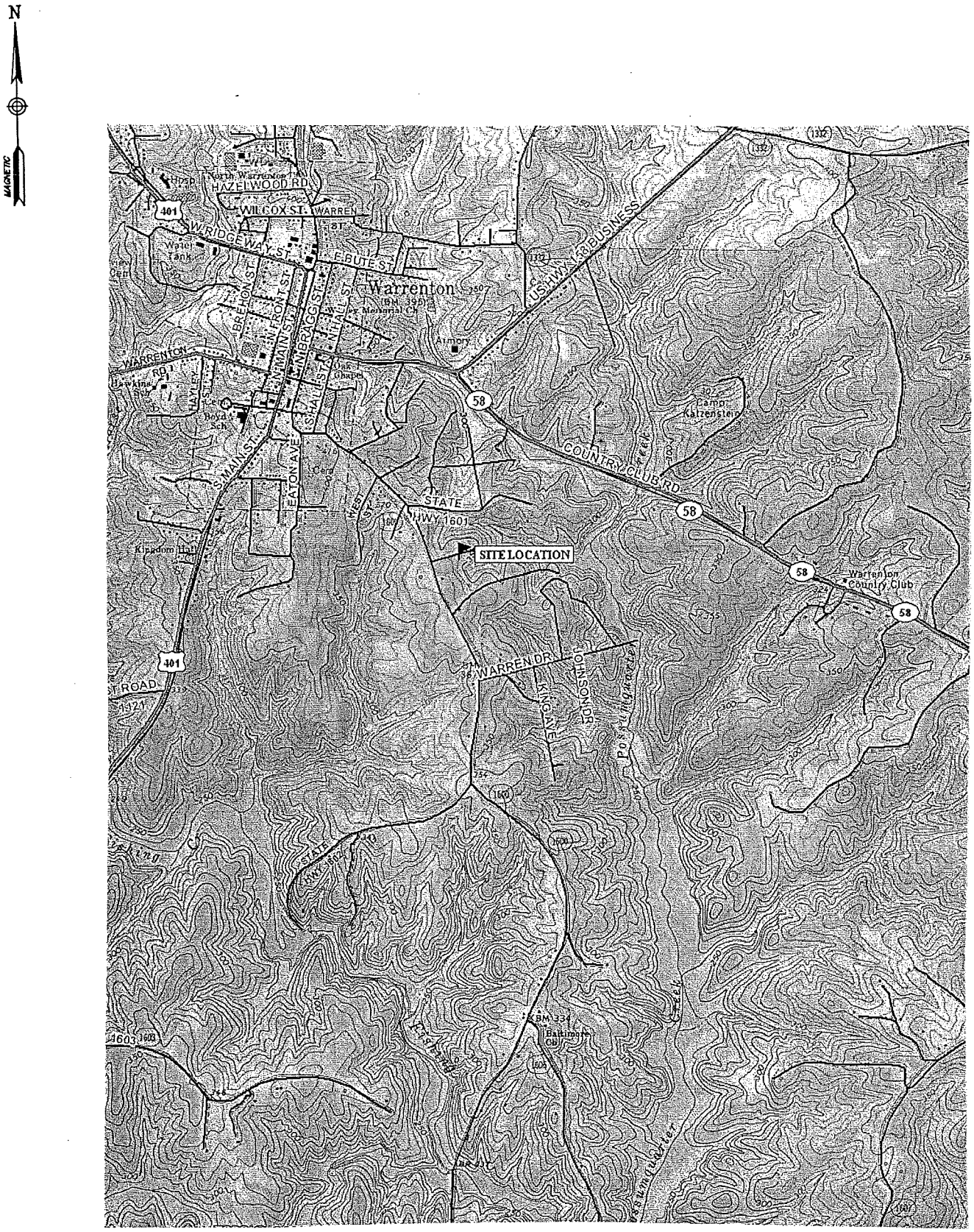
The next semi-annual sampling event will be conducted in August 2012. Please call if you have any questions or require any additional information at (704) 289-5881.

Sincerely,
Resolve Environmental Services, PLLC

Laura Minor
Project Manager

Terry D. Kennedy, P.G.
License No. 1435

FIGURES



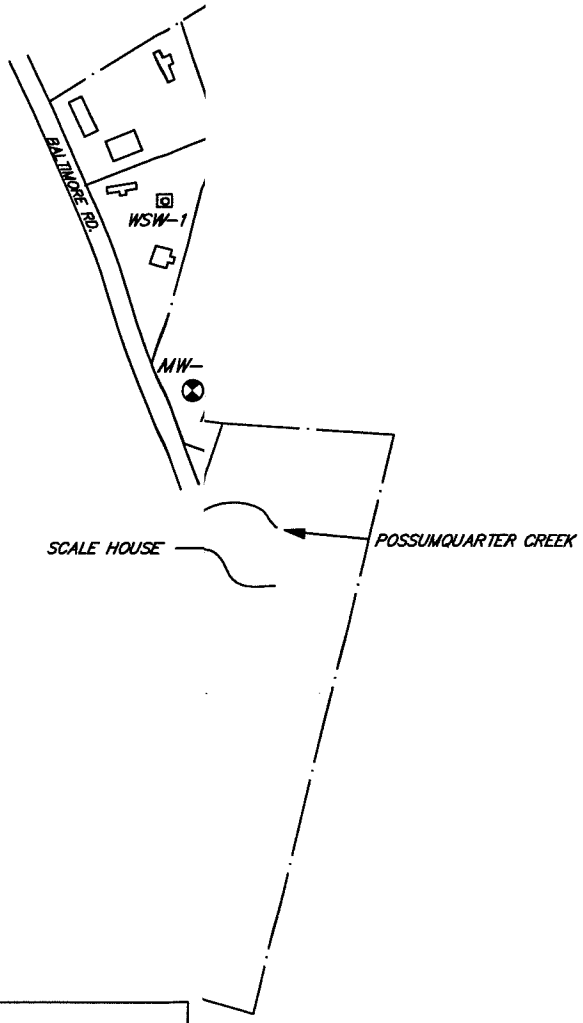
Warren County Landfill (Closed) **559 Baltimore Road** **Warrenton, North Carolina**	**Figure 1** **Site Location Map**	**RESOLVE ENVIRONMENTAL SERVICES, PLLC** **410 East Franklin Street** **Monroe, North Carolina 28112**

LEGEND

- NC TYPE II MONITORING WELL
- NC TYPE III MONITORING WELL
- APPROXIMATE PROPERTY BOUNDARY
- CREEK
- WATER SUPPLY WELL

N

MAGNETIC



NOTE: Site Map based on Resolve Environmental Services, P.A. "Sampling Location Map" (date unknown).

0 150 300

(IN FEET)
1 inch = 300 ft.

SITE MAP			
WARREN COUNTY LANDFILL 559 BALTIMORE ROAD, WARRENTON, WARREN COUNTY, NC PERMIT # 93-01			
Date: 09/13/11	Drawn by: LJM	Figure: 2	
RESOLVE ENVIRONMENTAL SERVICES, PLLC			

LEGEND

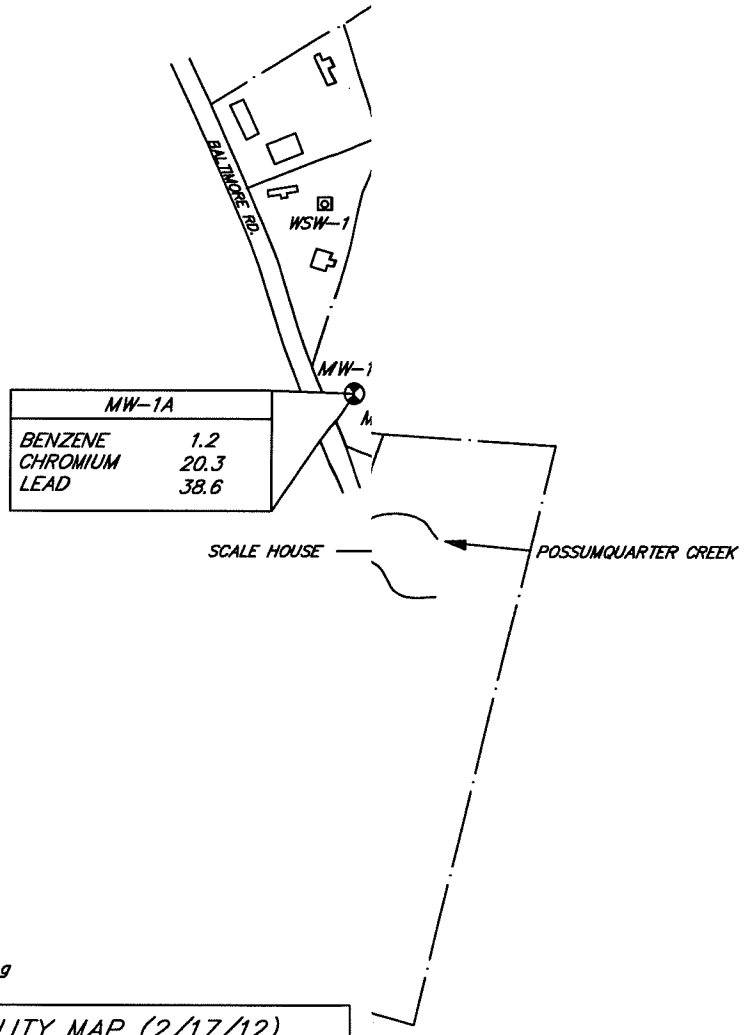
- NC TYPE II MONITORING WELL
- NC TYPE III MONITORING WELL
- APPROXIMATE PROPERTY BOUNDARY
- CREEK
- WATER SUPPLY WELL
- (NS) NOT SAMPLED

RESULTS REPORTED IN ug/L

ONLY THOSE COMPOUNDS DETECTED AT OR ABOVE THE NCGWQS HAVE BE INCLUDED ON THE MAP.

N

MAGNETIC



NOTE: Site Map based on Resolve Environmental Services, P.A. "Sampling Location Map" (date unknown).

0 150 300

(IN FEET)
1 inch = 300 ft.

GROUND WATER QUALITY MAP (2/17/12)

WARREN COUNTY LANDFILL
559 BALTIMORE ROAD, WARRENTON, WARREN COUNTY, NC
PERMIT # 93-01

Date: 03/13/12	Drawn by: LJM	Figure: 3

RESOLVE ENVIRONMENTAL SERVICES, PLLC

TABLES

TABLE 1
MONITORING WELL GAUGING AND FIELD PARAMETER DATA
WARREN COUNTY CLOSED SANITARY LANDFILL

Date: 3/13/2012

Sample Location	Total Well Depth (feet)	Depth to Water (feet)	Temperature (in C)	pH	Specific Conductance (μmhos)	Volume Purged (gals)
MW-1A	41.93	35.70	16.7	5.14	0.09	4.00
MW-2	15.75	8.00	13.8	5.63	0.27	4.25
MW-3	28.83	5.67	14.7	5.50	0.14	10.50
MW-4	23.07	3.68	12.0	5.63	0.23	9.00

Notes:
- Gauging and field parameters collected on February 17, 2012 by Resolve personnel.
- All measurements relative to the top of well casing.

Date : 03/13/2012

Analytical Method →		0			
Contaminant of Concern →					
Well ID	**Date Collecte (mm/dd/yy)**	**Lead**	**Nickel**	**Vanadium**	**Zinc**
NCGWQS (υg/L)		**15**	**100**	**NS**	**2,100**
MW-1A	02/17/12	**38.6**	<40	60.6	84.8
MW-2	02/17/12	<5.0	<40	<50	58.7
MW-3	02/17/12	<5.0	<40	<50	<20
MW-4	02/17/12	**15.1**	83.8	79.1	155
WSW-1	02/17/12	<5.0	<40	<50	<20
SW-1	02/17/12	<5.0	<40	<50	26.0
SW-2	02/17/12	5.1	<40	<50	49.3
SW-3	02/17/12	<5.0	<40	<50	<20
Equipment Blank	02/17/12	<5.0	<40	<50	<20
Trip Blank	02/17/12	NR	NR	NR	NR

Notes:

- Results reported in μg/L (microg
- NCGWQS: North Carolina Grou
- < : Less than the method detectic
- NS: Not specified.
- Concentrations in bold face type
- J: Estimated concentration.
- NR: Analysis not requested.

TABLE 3
HISTORICAL SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES
WARREN COUNTY CLOSED SANITARY LANDFILL

Date : 03/13/2012

Analytical Method →		**Appendix I - 8260**							**Appendix I - 6010/200.7**		**7470**
Contaminant of Concern →		**Benzene**	**Chlorobenzene**	**Chloroethane**	**1,4-Dichlorobenzene/ p-Dichlorobenzene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**Tetrahydrofuran**	**Chromium**	**Lead**	**Mercury**
Well ID	**Date Collected (mm/dd/yy)**										
NCGWQS (υg/L)		**1**	**50**	**NS**	**6**	**6**	**70**	**NS**	**10**	**15**	**1**
MW-1A	8/10/2006	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<10	15	NR
	2/22/2007	**1.4**	<1.0	<1.0	<1.0	<1.0	2.5	NR	**33**	**61**	NR
	8/27/2007	**1.3**	<1.0	<1.0	1.4	<1.0	2.6	<10.0	<5.0	<5.0	<0.20
	2/27/2008	**1.7**	<1.0	<1.0	1.9	<1.0	3.0	<10.0	<5.0	<5.0	<0.20
	8/26/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	**15.2**	**25.5**	<0.20
	2/25/2009	**1.2**	<1.0	<1.0	2.2	<1.0	2.5	<10.0	8.1	14.8	**0.21**
	8/19/2009	**1.52**	<1.00	<1.00	1.91	<1.00	2.27	<20.0	<5.00	<5.00	<0.200
	2/8/2010	**1.41**	<0.210	<0.270	2.22	<0.240	2.77	NR	3.72	4.66	0.101
	8/12/2010	**1.29**	<0.210	<0.270	2.23	<0.240	2.56	<1.00	5.10	10.5	<0.0800
	2/16/2011	0.839 J	<0.210	<0.270	1.45	<0.240	1.62	<1.00	31.3	57.1	0.383
	8/23/2011	0.88 J	<0.20	<0.50	1.1	<0.25	2.1	<2.0	<10	5.3	NR
	2/17/2012	**1.2**	<0.20	<0.50	1.9	<0.25	2.3	<2.0	**20.3**	**38.6**	NR
MW-2	8/10/2006	**1.5**	<1.0	**9.2**	4.3	<1.0	10	NR	<10	<10	NR
	2/22/2007	**1.3**	1.1	**7.8**	3.8	<1.0	8.1	NR	<5.0	<5.0	NR
	8/27/2007	**1.1**	1.6	**6.9**	2.9	<1.0	8.2	<10.0	<5.0	<5.0	<0.20
	2/27/2008	**1.6**	1.9	**7.3**	4.7	<1.0	9.9	<10.0	<5.0	<5.0	<0.20
	8/26/2008	<1.0	<1.0	**4.6**	2.8	<1.0	5.5	**19.1**	<5.0	<5.0	<0.20
	2/25/2009	**1.5**	1.7	**9.7**	5.4	<1.0	10.2	<10.0	<5.0	<5.0	<0.20
	8/19/2009	**1.21**	1.48	**7.50**	3.15	<1.00	6.27	<20.0	<5.00	<5.00	<0.200
	2/8/2010	0.837	1.07	**5.62**	2.70	0.372	5.76	NR	<2.00	<3.00	<0.0800
	8/12/2010	**1.49**	2.01	**8.34**	4.22	0.797	9.49	<1.00	<2.00	1.92	<0.0800
	2/16/2011	**1.25**	2.00	**6.22**	3.72	0.670 J	7.14	<1.00	<2.00	<1.50	<0.0800
	8/23/2011	0.65 J	1.3	3.9	2.1	0.33 J	4.5	<2.0	<10	8.7	NR
	2/17/2012	**1.6**	2.0	7.2	4.3	0.97 J	9.5	<2.0	<10	<5.0	NR

TABLE 3
HISTORICAL SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES
WARREN COUNTY CLOSED SANITARY LANDFILL

Date : 03/13/2012

Analytical Method →		**Appendix I - 8260**							**Appendix I - 6010/200.7**		**7470**
Contaminant of Concern →		**Benzene**	**Chlorobenzene**	**Chloroethane**	**1,4-Dichlorobenzene/ p-Dichlorobenzene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**Tetrahydrofuran**	**Chromium**	**Lead**	**Mercury**
Well ID	**Date Collected (mm/dd/yy)**										
NCGWQS (ug/L)		**1**	**50**	**NS**	**6**	**6**	**70**	**NS**	**10**	**15**	**1**
MW-3	8/10/2006	<1.0	<1.0	<1.0	<1.0	2.4	2.8	NR	<10	<10	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	2.6	3.9	NR	<5.0	<5.0	NR
	8/27/2007	<1.0	<1.0	**2.3**	<1.0	2.3	4.4	**17.2**	<5.0	<5.0	0.23
	2/27/2008	<1.0	<1.0	**1.20**	1.10	2.4	5.5	**27.0**	<5.0	<5.0	<0.20
	8/26/2008	<1.0	<1.0	<1.0	<1.0	1.7	2.6	**19.1**	<5.0	<5.0	<0.20
	2/25/2009	<1.0	<1.0	<1.0	<1.0	1.9	3.8	**20.9**	<5.0	<5.0	<0.20
	8/19/2009	<1.00	<1.00	**1.29**	<1.00	1.67	3.46	**26.3**	<5.00	<5.00	<0.200
	2/8/2010	0.514	0.817	**1.05**	0.996	1.61	3.96	NR	3.12	<1.50	<0.0800
	8/12/2010	0.413	0.544	<0.270	0.853	1.65	3.08	**15.2**	2.83	2.08	<0.0800
	2/16/2011	0.369 J	0.642 J	0.764 J	0.800 J	1.30	2.87	**15.6**	2.26 J	<1.50	<0.0800
	8/23/2011	0.30 J	0.64 J	<0.50	0.63 J	0.92	2.4	**15.4**	<10	<5.0	NR
	2/17/2012	0.35 J	0.62 J	0.68 J	0.71 J	0.80 J	2.5	**14.0**	<10	<5.0	NR
MW-4	8/10/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<10	<10	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<5.0	NR
	8/27/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	13.0	<5.0	<0.20
	2/27/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	**22.5**	<5.0	<0.20
	8/26/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	**63.3**	**15.6**	<0.20
	2/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	7.9	<5.0	<0.20
	8/19/2009	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<20.0	**12.2**	<5.00	<0.200
	2/8/2010	0.250	<0.210	<0.270	<0.250	0.401	0.599	NR	**14.4**	<1.50	<0.0800
	8/12/2010	0.295	<0.210	<0.270	<0.250	<0.240	0.715	<1.00	**10.4**	3.27	<0.0800
	2/16/2011	0.250 J	<0.210	<0.270	<0.250	0.346 J	0.607 J	<1.00	**6.65 J**	<1.50	<0.0800
	8/23/2011	0.22 J	<0.20	<0.50	<0.23	0.25 J	0.47 J	<2.0	**180**	**30.3**	NR
	2/17/2012	0.27 J	<0.20	<0.50	<0.23	0.28 J	0.81 J	<2.0	**109**	**15.1**	NR

TABLE 3
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WARREN COUNTY CLOSED SANITARY LANDFILL

Date : 03/13/2012

Analytical Method →		**Appendix I - 8260**							**Appendix I - 6010/200.7**		**7470**
Contaminant of Concern →											
Well ID	**Date Collected (mm/dd/yy)**	**Benzene**	**Chlorobenzene**	**Chloroethane**	**1,4-Dichlorobenzene/ p-Dichlorobenzene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**Tetrahydrofuran**	**Chromium**	**Lead**	**Mercury**
NCGWQS (ug/L)		**1**	**50**	**NS**	**6**	**6**	**70**	**NS**	**10**	**15**	**1**
SW-1	8/10/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<10	**94**	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	NR	<5.0	<5.0	NR
	8/27/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	2/27/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	8/26/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	**248**	**106**	<0.20
	2/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	8/19/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/8/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	NR	<2.00	<1.50	<0.0800
	8/12/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	<1.00	<2.00	<1.50	<0.0800
	2/16/2011	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	<1.00	6.91 J	3.79	<0.0800
	8/23/2011	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	2/17/2012	<0.20	<0.20	<0.50	<0.23	<0.25	<0.26	<2.0	<10	<5.0	NR
SW-2	8/10/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<10	<10	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<5.0	NR
	8/27/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	2/27/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	8/26/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	8/19/2009	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<20.0	**49.4**	**79.4**	0.314
	2/8/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	NR	3.04	1.87	<0.0800
	8/12/2010	0.143	0.240	<0.270	0.393	<0.240	1.14	**7.77**	<2.00	1.67	<0.0800
	2/16/2011	<0.140	<0.210	<0.270	<0.250	<0.240	0.646 J	**3.06**	<2.00	<1.50	<0.0800
	8/23/2011	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	2/17/2012	<0.20	<0.20	<0.50	<0.23	<0.25	<0.26	<2.0	<10	5.1	NR

TABLE 3
HISTORICAL SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES
WARREN COUNTY CLOSED SANITARY LANDFILL

Date : 03/13/2012

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Contaminant of Concern →											
Well ID	**Date Collected (mm/dd/yy)**	**Benzene**	**Chlorobenzene**	**Chloroethane**	**1,4-Dichlorobenzene/ p-Dichlorobenzene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**Tetrahydrofuran**	**Chromium**	**Lead**	**Mercury**
NCGWQS (υg/L)		**1**	**50**	**NS**	**6**	**6**	**70**	**NS**	**10**	**15**	**1**
SW-3	8/10/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<10	<10	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<5.0	NR
	8/27/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	2/27/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	8/26/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	2/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	8/19/2009	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<20.0	<5.00	<5.00	<0.200
	2/8/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	NR	<2.00	<1.50	<0.0800
	8/12/2010	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	2/16/2011	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	<1.00	<2.00	<1.50	<0.0800
	8/23/2011	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	2/17/2012	<0.20	<0.20	<0.50	<0.23	<0.25	<0.26	<2.0	<10	<5.0	NR

TABLE 3
HISTORICAL SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES
WARREN COUNTY CLOSED SANITARY LANDFILL

Date : 03/13/2012

Analytical Method →		**Appendix I - 8260**							**Appendix I - 6010/200.7**		**7470**
Contaminant of Concern →											
Well ID	**Date Collected (mm/dd/yy)**	**Benzene**	**Chlorobenzene**	**Chloroethane**	**1,4-Dichlorobenzene/ p-Dichlorobenzene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**Tetrahydrofuran**	**Chromium**	**Lead**	**Mercury**
NCGWQS (ug/L)		**1**	**50**	**NS**	**6**	**6**	**70**	**NS**	**10**	**15**	**1**
WSW-1/WS/WSW	8/10/2006	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<5.0	NR
	8/27/2007	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/27/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	8/26/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/25/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	8/19/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/8/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	NR	<2.00	4.29	0.272
	2/25/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	NR	<2.00	<1.50	0.338
	8/12/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	<1.00	<2.00	2.19	0.225
	2/16/2011	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	0.186	<2.00	<1.50	0.242
	8/23/2011	<0.20	<0.20	<0.50	<0.25	<0.25	<0.26	<2.0	<10	<5.0	NR
	2/17/2012	<0.20	<0.20	<0.50	<0.23	<0.25	<0.26	<2.0	<10	<5.0	NR

Notes:
- Results reported in µg/L (micrograms per Liter) .
- NCGWQS: North Carolina Ground Water Quality Standard as specified in T15A NCAC 2L. 0202.
- < : Less than the method detection limit specified in the laboratory report.
- NR: Analysis not requested or sample was not collected.
- NS: Not specified.
- Concentrations in bold face type exceeded the 2L standard.
- Concentrations of tetrachloroethene (0.254 µg/L and 0.357 µg/L, respectively) were reported in MW-3 and WSW-1 on 2/8/2010; a concentration of tetrachloroethene (0.189 J ug/L) was reported in MW-3 on 2/16/11; concentrations of trichloroethylene (0.37 J ug/L and 0.40 J ug/L, respectively) were reported in MW-1A and MW-2 on 2/17/12; a concentration of beryllium (6.5 ug/L) was reported in MW-1A on 2/17/12.
- J: Estimated concentration.

APPENDIX A
Laboratory Analytical Report

Southeast
ACCUTEST
LABORATORIES

02/28/12

Technical Report for

Resolve Environmental

Warren County; Warrenton, NC

Accutest Job Number: F90485

Sampling Date: 02/17/12

Report to:

Resolve Environmental
410 E Franklin St
Monroe, NC 28112
resolve@carolina.rr.com

ATTN: Laura Minor

Total number of pages in report: **65**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sections: 1 2 3 4 5 6 7

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Sample Results **4**
2.1: F90485-1: MW-1A 5
2.2: F90485-2: MW-2 8
2.3: F90485-3: MW-3 11
2.4: F90485-4: MW-4 14
2.5: F90485-5: SW-1 17
2.6: F90485-6: SW-2 20
2.7: F90485-7: SW-3 23
2.8: F90485-8: WSW-1 26
2.9: F90485-9: EQUIPMENT BLANK 29
2.10: F90485-10: TRIP BLANK 32
Section 3: Misc. Forms 34
3.1: Chain of Custody 35
Section 4: GC/MS Volatiles - QC Data Summaries **37**
4.1: Method Blank Summary 38
4.2: Blank Spike Summary 42
4.3: Matrix Spike/Matrix Spike Duplicate Summary 46
Section 5: Metals Analysis - QC Data Summaries 50
5.1: Prep QC MP22300: Sb,As,Ba,Be,Cd,Cr,Co,Cu,Pb,Ni,Se,Ag,V,Zn 51
Section 6: Misc. Forms (Accutest New Jersey) 57
6.1: Chain of Custody 58
Section 7: Metals Analysis - QC Data (Accutest New Jersey) **60**
7.1: Prep QC MP62884: Tl 61

Sample Summary

Resolve Environmental

Warren County; Warrenton, NC

Job No: F90485

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
F90485-1	02/17/12	13:22 LM	02/21/12	AQ	Ground Water	MW-1A
F90485-2	02/17/12	12:51 LM	02/21/12	AQ	Ground Water	MW-2
F90485-3	02/17/12	12:15 LM	02/21/12	AQ	Ground Water	MW-3
F90485-4	02/17/12	11:30 LM	02/21/12	AQ	Ground Water	MW-4
F90485-5	02/17/12	13:02 LM	02/21/12	AQ	Ground Water	SW-1
F90485-6	02/17/12	12:20 LM	02/21/12	AQ	Ground Water	SW-2
F90485-7	02/17/12	11:46 LM	02/21/12	AQ	Ground Water	SW-3
F90485-8	02/17/12	10:50 LM	02/21/12	AQ	Ground Water	WSW-1
F90485-9	02/17/12	10:55 LM	02/21/12	AQ	Equipment Blank	EQUIPMENT BLANK
F90485-10	02/17/12	00:00 LM	02/21/12	AQ	Trip Blank Water	TRIP BLANK

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1A		
Lab Sample ID:	F90485-1	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C085139.D	1	02/23/12	DP	n/a	n/a	VC3393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	1.2	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.3	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	1.9	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl iodide	ND	1.0	0.20	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1A		
Lab Sample ID:	F90485-1	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.37	1.0	0.26	ug/l	J
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1A		
Lab Sample ID:	F90485-1	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
		Percent Solids:	n/a
Project:	Warren County; Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Barium	212	200	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	6.5	4.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Chromium	20.3	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Copper	36.3	25	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Lead	38.6	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 2.5	2.5	ug/l	5	02/24/12	02/27/12	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	60.6	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Zinc	84.8	20	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA9600
(2) Instrument QC Batch: N:MA28041
(3) Prep QC Batch: MP22300
(4) Prep QC Batch: N:MP62884

(a) Elevated detection limit due to dilution required for matrix interference. Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	F90485-2	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C085140.D	1	02/23/12	DP	n/a	n/a	VC3393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	1.6	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	2.0	1.0	0.20	ug/l	
75-00-3	Chloroethane	7.2	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.97	1.0	0.25	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	9.5	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	4.3	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl iodide	ND	1.0	0.20	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	F90485-2	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.40	1.0	0.26	ug/l	J
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	F90485-2	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
		Percent Solids:	n/a
Project:	Warren County; Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Barium	225	200	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	79.8	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 1.0	1.0	ug/l	2	02/24/12	02/25/12	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Zinc	58.7	20	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA9600
(2) Instrument QC Batch: N:MA28029
(3) Prep QC Batch: MP22300
(4) Prep QC Batch: N:MP62884

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	F90485-3	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C085141.D	1	02/23/12	DP	n/a	n/a	VC3393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	0.35	1.0	0.20	ug/l	J
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	0.62	1.0	0.20	ug/l	J
75-00-3	Chloroethane	0.68	2.0	0.50	ug/l	J
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.80	1.0	0.25	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.5	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.71	1.0	0.23	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl iodide	ND	1.0	0.20	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	F90485-3	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
109-99-9	Tetrahydrofuran	14.0	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		87-116%
17060-07-0	1,2-Dichloroethane-D4	110%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	F90485-3	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
		Percent Solids:	n/a
Project:	Warren County; Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 1.0	1.0	ug/l	2	02/24/12	02/25/12	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA9600
(2) Instrument QC Batch: N:MA28029
(3) Prep QC Batch: MP22300
(4) Prep QC Batch: N:MP62884

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	F90485-4	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C085142.D	1	02/23/12	DP	n/a	n/a	VC3393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	0.27	1.0	0.20	ug/l	J
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.28	1.0	0.25	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.81	1.0	0.26	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl iodide	ND	1.0	0.20	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	F90485-4	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	F90485-4	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
		Percent Solids:	n/a
Project:	Warren County; Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Barium	344	200	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Chromium	109	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Copper	96.2	25	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Lead	15.1	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Nickel	83.8	40	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 1.0	1.0	ug/l	2	02/24/12	02/25/12	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	79.1	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Zinc	155	20	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA9600
(2) Instrument QC Batch: N:MA28029
(3) Prep QC Batch: MP22300
(4) Prep QC Batch: N:MP62884

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW-1		
Lab Sample ID:	F90485-5	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C085143.D	1	02/23/12	DP	n/a	n/a	VC3393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl iodide	ND	1.0	0.20	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW-1		
Lab Sample ID:	F90485-5	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW-1		
Lab Sample ID:	F90485-5	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
		Percent Solids:	n/a
Project:	Warren County; Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 1.0	1.0	ug/l	2	02/24/12	02/25/12	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Zinc	26.0	20	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA9600
(2) Instrument QC Batch: N:MA28029
(3) Prep QC Batch: MP22300
(4) Prep QC Batch: N:MP62884

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW-2		
Lab Sample ID:	F90485-6	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C085144.D	1	02/23/12	DP	n/a	n/a	VC3393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl iodide	ND	1.0	0.20	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW-2		
Lab Sample ID:	F90485-6	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	111%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW-2		
Lab Sample ID:	F90485-6	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
		Percent Solids:	n/a
Project:	Warren County; Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	50.5	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Lead	5.1	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 10	10	ug/l	2	02/24/12	02/25/12	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Zinc	49.3	20	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA9600
(2) Instrument QC Batch: N:MA28029
(3) Prep QC Batch: MP22300
(4) Prep QC Batch: N:MP62884

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW-3		
Lab Sample ID:	F90485-7	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C085145.D	1	02/23/12	DP	n/a	n/a	VC3393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl iodide	ND	1.0	0.20	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW-3		
Lab Sample ID:	F90485-7	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	112%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW-3		
Lab Sample ID:	F90485-7	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
		Percent Solids:	n/a
Project:	Warren County; Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 10	10	ug/l	2	02/24/12	02/25/12	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA9600
(2) Instrument QC Batch: N:MA28029
(3) Prep QC Batch: MP22300
(4) Prep QC Batch: N:MP62884

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-1		
Lab Sample ID:	F90485-8	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C085171.D	1	02/24/12	WV	n/a	n/a	VC3394
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone [a]	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl iodide	ND	1.0	0.20	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-1		
Lab Sample ID:	F90485-8	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
78-93-3	Methyl ethyl ketone [a]	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WSW-1		
Lab Sample ID:	F90485-8	**Date Sampled:**	02/17/12
Matrix:	AQ - Ground Water	**Date Received:**	02/21/12
		Percent Solids:	n/a
Project:	Warren County; Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 1.0	1.0	ug/l	2	02/24/12	02/25/12	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA9600
(2) Instrument QC Batch: N:MA28029
(3) Prep QC Batch: MP22300
(4) Prep QC Batch: N:MP62884

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	F90485-9	**Date Sampled:**	02/17/12
Matrix:	AQ - Equipment Blank	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C085163.D	1	02/24/12	WV	n/a	n/a	VC3394
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone [a]	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl iodide	ND	1.0	0.20	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	F90485-9	**Date Sampled:**	02/17/12
Matrix:	AQ - Equipment Blank	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
78-93-3	Methyl ethyl ketone [a]	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	F90485-9	**Date Sampled:**	02/17/12
Matrix:	AQ - Equipment Blank	**Date Received:**	02/21/12
		Percent Solids:	n/a
Project:	Warren County; Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 1.0	1.0	ug/l	2	02/24/12	02/25/12	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	02/22/12	02/22/12	DM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA9600
(2) Instrument QC Batch: N:MA28029
(3) Prep QC Batch: MP22300
(4) Prep QC Batch: N:MP62884

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F90485-10	**Date Sampled:**	02/17/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	C085146.D	1	02/24/12	DP	n/a	n/a	VC3393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl iodide	ND	1.0	0.20	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F90485-10	**Date Sampled:**	02/17/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/21/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County; Warrenton, NC		

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	113%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (NC)
- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F90485

PAGE 1 OF 1

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: Resolve
Address: 410 E Franklin St
City: Monroe State: NC Zip: 28112
Project Contact: L. Minor E-mail: resolve@carolina.rr.com
Phone#: 704 289 5881
Sampler(s) Name(s) (Printed): Laura Minor

Project Information

Project Name: Warren County Landfill
Street:
City: Warrenton State: NC
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	Appendix I VOCs + Tetrahydrofuran	Appendix I Metals	LAB USE ONLY
1	MW-1A	2/17/12	1322	LM	GW	4										X	X	
2	MW-2		1251													X	X	
3	MW-3		1215													X	X	
4	MW-4		1130													X	X	
5	SW-1		1302													X	X	
6	SW-2		1220													X	X	
7	SW-3		1146													X	X	
8	WSW-1		1050													X	X	
9	Equipment Blank		1055													X	X	
10	Trip Blank															X		

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

ACCUTEST
2828-G QUEEN CITY DR
CLT NC 28203

Comments / Remarks

EDD required

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 LM	2/20 1700	2	3	2/20 15:00	4 FX
Relinquished by: 5 FX 02-21-12 0800	Date Time: 2/20/12	Received By: 6 02-21-12 0800 ACSE	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.2

F90485: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F90485 CLIENT: Resolve PROJECT: Warren County landFill

DATE/TIME RECEIVED: 02-21-12 0900 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8986 0569 8748

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [✓] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [✓] TRIP BLANK NOT INTACT
- [✓] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 2-4
- [ ] CORRECTED TEMPS: 2-2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [X] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: Received 1 40ml Vial For Trip Blank # 10 (8260)

TECHNICIAN SIGNATURE/DATE [signature] 02-21-12 REVIEWER SIGNATURE/DATE [signature] 02/21/12

NF 12/10

receipt confirmation 122910.xls

F90485: Chain of Custody
Page 2 of 2

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: F90485
Account: RENCM Resolve Environmental
Project: Warren County; Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3393-MB	C085124.D	1	02/23/12	DP	n/a	n/a	VC3393

The QC reported here applies to the following samples: **Method:** SW846 8260B

F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-10

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10.2	25	10	ug/l	J
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl iodide	ND	1.0	0.20	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F90485
Account: RENCM Resolve Environmental
Project: Warren County; Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3393-MB	C085124.D	1	02/23/12	DP	n/a	n/a	VC3393

The QC reported here applies to the following samples: **Method:** SW846 8260B

F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-10

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	100%	76-127%
2037-26-5	Toluene-D8	103%	86-112%
460-00-4	4-Bromofluorobenzene	105%	84-120%

Method Blank Summary

Job Number: F90485
Account: RENCM Resolve Environmental
Project: Warren County; Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3394-MB	C085152.D	1	02/24/12	WV	n/a	n/a	VC3394

The QC reported here applies to the following samples: **Method:** SW846 8260B

F90485-8, F90485-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.22	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.22	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.25	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.37	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.26	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.25	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.23	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.35	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	4.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.50	ug/l	
74-88-4	Methyl iodide	ND	1.0	0.20	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.25	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: F90485
Account: RENCM Resolve Environmental
Project: Warren County; Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3394-MB	C085152.D	1	02/24/12	WV	n/a	n/a	VC3394

The QC reported here applies to the following samples: **Method:** SW846 8260B

F90485-8, F90485-9

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.23	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.30	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.25	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.22	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.52	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	105%	76-127%
2037-26-5	Toluene-D8	104%	86-112%
460-00-4	4-Bromofluorobenzene	105%	84-120%

Blank Spike Summary

Job Number: F90485
Account: RENCM Resolve Environmental
Project: Warren County; Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3393-BS	C085123.D	1	02/23/12	DP	n/a	n/a	VC3393

The QC reported here applies to the following samples: **Method:** SW846 8260B

F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	83.7	67	59-134
107-13-1	Acrylonitrile	125	122	98	62-124
71-43-2	Benzene	25	26.6	106	83-124
74-97-5	Bromochloromethane	25	23.8	95	78-112
75-27-4	Bromodichloromethane	25	24.6	98	76-116
75-25-2	Bromoform	25	21.9	88	68-128
108-90-7	Chlorobenzene	25	25.9	104	87-115
75-00-3	Chloroethane	25	25.2	101	54-166
67-66-3	Chloroform	25	25.2	101	85-123
75-15-0	Carbon disulfide	25	26.3	105	67-147
56-23-5	Carbon tetrachloride	25	25.9	104	74-139
75-34-3	1,1-Dichloroethane	25	26.8	107	82-127
75-35-4	1,1-Dichloroethylene	25	27.6	110	75-133
96-12-8	1,2-Dibromo-3-chloropropane	25	22.3	89	61-118
106-93-4	1,2-Dibromoethane	25	24.9	100	80-115
107-06-2	1,2-Dichloroethane	25	23.6	94	76-122
78-87-5	1,2-Dichloropropane	25	25.6	102	81-120
124-48-1	Dibromochloromethane	25	24.4	98	74-116
156-59-2	cis-1,2-Dichloroethylene	25	26.5	106	81-114
10061-01-5	cis-1,3-Dichloropropene	25	25.7	103	83-119
95-50-1	o-Dichlorobenzene	25	25.3	101	85-115
106-46-7	p-Dichlorobenzene	25	25.4	102	87-113
156-60-5	trans-1,2-Dichloroethylene	25	26.7	107	82-126
10061-02-6	trans-1,3-Dichloropropene	25	27.2	109	87-123
100-41-4	Ethylbenzene	25	25.6	102	87-118
591-78-6	2-Hexanone	125	106	85	58-125
108-10-1	4-Methyl-2-pentanone	125	112	90	62-125
74-83-9	Methyl bromide	25	29.4	118	55-151
74-87-3	Methyl chloride	25	27.8	111	55-173
74-88-4	Methyl iodide	25	24.4	98	72-125
74-95-3	Methylene bromide	25	24.5	98	81-116
75-09-2	Methylene chloride	25	27.1	108	69-125
78-93-3	Methyl ethyl ketone	125	101	81	61-127
100-42-5	Styrene	25	26.2	105	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	24.7	99	81-119
71-55-6	1,1,1-Trichloroethane	25	26.3	105	79-133

Blank Spike Summary

Job Number: F90485
Account: RENCM Resolve Environmental
Project: Warren County; Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3393-BS	C085123.D	1	02/23/12	DP	n/a	n/a	VC3393

The QC reported here applies to the following samples: **Method:** SW846 8260B

F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-34-5	1,1,2,2-Tetrachloroethane	25	24.4	98	71-120
79-00-5	1,1,2-Trichloroethane	25	25.2	101	80-114
96-18-4	1,2,3-Trichloropropane	25	24.0	96	77-115
127-18-4	Tetrachloroethylene	25	27.4	110	80-131
109-99-9	Tetrahydrofuran	25	22.9	92	60-125
108-88-3	Toluene	25	25.9	104	86-116
79-01-6	Trichloroethylene	25	26.3	105	85-124
75-69-4	Trichlorofluoromethane	25	26.4	106	66-156
110-57-6	Trans-1,4-Dichloro-2-Butene	25	20.6	82	51-137
75-01-4	Vinyl chloride	25	26.8	107	57-153
108-05-4	Vinyl Acetate	125	125	100	38-159
1330-20-7	Xylene (total)	75	77.2	103	86-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	87-116%
17060-07-0	1,2-Dichloroethane-D4	97%	76-127%
2037-26-5	Toluene-D8	105%	86-112%
460-00-4	4-Bromofluorobenzene	104%	84-120%

Blank Spike Summary

Job Number: F90485
Account: RENCM Resolve Environmental
Project: Warren County; Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3394-BS	C085151.D	1	02/24/12	WV	n/a	n/a	VC3394

The QC reported here applies to the following samples: **Method:** SW846 8260B

F90485-8, F90485-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	156	125	59-134
107-13-1	Acrylonitrile	125	118	94	62-124
71-43-2	Benzene	25	27.4	110	83-124
74-97-5	Bromochloromethane	25	24.7	99	78-112
75-27-4	Bromodichloromethane	25	26.8	107	76-116
75-25-2	Bromoform	25	22.8	91	68-128
108-90-7	Chlorobenzene	25	26.9	108	87-115
75-00-3	Chloroethane	25	28.1	112	54-166
67-66-3	Chloroform	25	27.1	108	85-123
75-15-0	Carbon disulfide	25	27.9	112	67-147
56-23-5	Carbon tetrachloride	25	29.4	118	74-139
75-34-3	1,1-Dichloroethane	25	27.6	110	82-127
75-35-4	1,1-Dichloroethylene	25	30.6	122	75-133
96-12-8	1,2-Dibromo-3-chloropropane	25	21.9	88	61-118
106-93-4	1,2-Dibromoethane	25	25.5	102	80-115
107-06-2	1,2-Dichloroethane	25	26.1	104	76-122
78-87-5	1,2-Dichloropropane	25	26.8	107	81-120
124-48-1	Dibromochloromethane	25	25.7	103	74-116
156-59-2	cis-1,2-Dichloroethylene	25	27.0	108	81-114
10061-01-5	cis-1,3-Dichloropropene	25	27.2	109	83-119
95-50-1	o-Dichlorobenzene	25	26.1	104	85-115
106-46-7	p-Dichlorobenzene	25	26.5	106	87-113
156-60-5	trans-1,2-Dichloroethylene	25	27.6	110	82-126
10061-02-6	trans-1,3-Dichloropropene	25	28.8	115	87-123
100-41-4	Ethylbenzene	25	26.8	107	87-118
591-78-6	2-Hexanone	125	161	129*	58-125
108-10-1	4-Methyl-2-pentanone	125	120	96	62-125
74-83-9	Methyl bromide	25	32.3	129	55-151
74-87-3	Methyl chloride	25	30.7	123	55-173
74-88-4	Methyl iodide	25	25.7	103	72-125
74-95-3	Methylene bromide	25	26.0	104	81-116
75-09-2	Methylene chloride	25	28.4	114	69-125
78-93-3	Methyl ethyl ketone	125	162	130*	61-127
100-42-5	Styrene	25	26.8	107	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	26.6	106	81-119
71-55-6	1,1,1-Trichloroethane	25	29.1	116	79-133

Blank Spike Summary

Job Number: F90485
Account: RENCM Resolve Environmental
Project: Warren County; Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3394-BS	C085151.D	1	02/24/12	WV	n/a	n/a	VC3394

The QC reported here applies to the following samples: **Method:** SW846 8260B

F90485-8, F90485-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-34-5	1,1,2,2-Tetrachloroethane	25	23.9	96	71-120
79-00-5	1,1,2-Trichloroethane	25	25.5	102	80-114
96-18-4	1,2,3-Trichloropropane	25	23.9	96	77-115
127-18-4	Tetrachloroethylene	25	28.4	114	80-131
109-99-9	Tetrahydrofuran	25	22.5	90	60-125
108-88-3	Toluene	25	26.9	108	86-116
79-01-6	Trichloroethylene	25	27.9	112	85-124
75-69-4	Trichlorofluoromethane	25	31.2	125	66-156
110-57-6	Trans-1,4-Dichloro-2-Butene	25	21.0	84	51-137
75-01-4	Vinyl chloride	25	30.0	120	57-153
108-05-4	Vinyl Acetate	125	133	106	38-159
1330-20-7	Xylene (total)	75	80.3	107	86-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	87-116%
17060-07-0	1,2-Dichloroethane-D4	105%	76-127%
2037-26-5	Toluene-D8	106%	86-112%
460-00-4	4-Bromofluorobenzene	102%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F90485
Account: RENCM Resolve Environmental
Project: Warren County; Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F90359-2MS	C085134.D	10	02/23/12	DP	n/a	n/a	VC3393
F90359-2MSD	C085135.D	10	02/23/12	DP	n/a	n/a	VC3393
F90359-2	C085136.D	10	02/23/12	DP	n/a	n/a	VC3393

The QC reported here applies to the following samples: **Method:** SW846 8260B

F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-10

CAS No.	Compound	F90359-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	250 U		1250	700	56*	705	56*	1	59-134/14
107-13-1	Acrylonitrile	100 U		1250	1310	105	1300	104	1	62-124/13
71-43-2	Benzene	10 U		250	236	94	234	94	1	83-124/11
74-97-5	Bromochloromethane	10 U		250	221	88	215	86	3	78-112/10
75-27-4	Bromodichloromethane	10 U		250	241	96	237	95	2	76-116/10
75-25-2	Bromoform	10 U		250	213	85	216	86	1	68-128/11
108-90-7	Chlorobenzene	10 U		250	237	95	236	94	0	87-115/9
75-00-3	Chloroethane	20 U		250	249	100	253	101	2	54-166/20
67-66-3	Chloroform	10 U		250	236	94	237	95	0	85-123/10
75-15-0	Carbon disulfide	20 U		250	183	73	198	79	8	67-147/12
56-23-5	Carbon tetrachloride	10 U		250	251	100	239	96	5	74-139/13
75-34-3	1,1-Dichloroethane	10 U		250	237	95	234	94	1	82-127/10
75-35-4	1,1-Dichloroethylene	10 U		250	209	84	209	84	0	75-133/13
96-12-8	1,2-Dibromo-3-chloropropane	20 U		250	231	92	232	93	0	61-118/15
106-93-4	1,2-Dibromoethane	10 U		250	231	92	234	94	1	80-115/10
107-06-2	1,2-Dichloroethane	10 U		250	240	96	232	93	3	76-122/11
78-87-5	1,2-Dichloropropane	10 U		250	236	94	235	94	0	81-120/11
124-48-1	Dibromochloromethane	10 U		250	232	93	233	93	0	74-116/11
156-59-2	cis-1,2-Dichloroethylene	654		250	822	67* [a]	807	61* [a]	2	81-114/10
10061-01-5	cis-1,3-Dichloropropene	10 U		250	231	92	234	94	1	83-119/10
95-50-1	o-Dichlorobenzene	10 U		250	237	95	239	96	1	85-115/9
106-46-7	p-Dichlorobenzene	10 U		250	237	95	237	95	0	87-113/10
156-60-5	trans-1,2-Dichloroethylene	10 U		250	234	94	228	91	3	82-126/10
10061-02-6	trans-1,3-Dichloropropene	10 U		250	247	99	248	99	0	87-123/10
100-41-4	Ethylbenzene	10 U		250	235	94	234	94	0	87-118/10
591-78-6	2-Hexanone	100 U		1250	1080	86	1090	87	1	58-125/14
108-10-1	4-Methyl-2-pentanone	50 U		1250	1180	94	1200	96	2	62-125/13
74-83-9	Methyl bromide	20 U		250	299	120	296	118	1	55-151/21
74-87-3	Methyl chloride	20 U		250	286	114	285	114	0	55-173/22
74-88-4	Methyl iodide	10 U		250	210	84	202	81	4	72-125/11
74-95-3	Methylene bromide	20 U		250	237	95	234	94	1	81-116/10
75-09-2	Methylene chloride	50 U		250	238	95	231	92	3	69-125/11
78-93-3	Methyl ethyl ketone	50 U		1250	1000	80	998	80	0	61-127/13
100-42-5	Styrene	10 U		250	234	94	232	93	1	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	10 U		250	231	92	232	93	0	81-119/10
71-55-6	1,1,1-Trichloroethane	10 U		250	255	102	250	100	2	79-133/11

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F90485
Account: RENCM Resolve Environmental
Project: Warren County; Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F90359-2MS	C085134.D	10	02/23/12	DP	n/a	n/a	VC3393
F90359-2MSD	C085135.D	10	02/23/12	DP	n/a	n/a	VC3393
F90359-2	C085136.D	10	02/23/12	DP	n/a	n/a	VC3393

The QC reported here applies to the following samples: **Method:** SW846 8260B

F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-10

CAS No.	Compound	F90359-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
79-34-5	1,1,2,2-Tetrachloroethane	10 U		250	235	94	241	96	3	71-120/11
79-00-5	1,1,2-Trichloroethane	10 U		250	228	91	234	94	3	80-114/11
96-18-4	1,2,3-Trichloropropane	20 U		250	236	94	243	97	3	77-115/12
127-18-4	Tetrachloroethylene	10 U		250	245	98	247	99	1	80-131/12
109-99-9	Tetrahydrofuran	50 U		250	227	91	227	91	0	60-125/16
108-88-3	Toluene	10 U		250	230	92	231	92	0	86-116/10
79-01-6	Trichloroethylene	86.6		250	323	95	313	91	3	85-124/10
75-69-4	Trichlorofluoromethane	20 U		250	301	120	292	117	3	66-156/15
110-57-6	Trans-1,4-Dichloro-2-Butene	100 U		250	143	57	164	66	14	51-137/24
75-01-4	Vinyl chloride	16.3		250	278	105	287	108	3	57-153/22
108-05-4	Vinyl Acetate	100 U		1250	1390	111	1380	110	1	38-159/11
1330-20-7	Xylene (total)	30 U		750	708	94	705	94	0	86-120/10

CAS No.	Surrogate Recoveries	MS	MSD	F90359-2	Limits
1868-53-7	Dibromofluoromethane	107%	107%	106%	87-116%
17060-07-0	1,2-Dichloroethane-D4	111%	110%	108%	76-127%
2037-26-5	Toluene-D8	103%	105%	104%	86-112%
460-00-4	4-Bromofluorobenzene	101%	104%	104%	84-120%

(a) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F90485
Account: RENCM Resolve Environmental
Project: Warren County; Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F90359-1MS	C085169.D	5	02/24/12	WV	n/a	n/a	VC3394
F90359-1MSD	C085170.D	5	02/24/12	WV	n/a	n/a	VC3394
F90359-1	C085161.D	5	02/24/12	WV	n/a	n/a	VC3394

The QC reported here applies to the following samples: **Method:** SW846 8260B

F90485-8, F90485-9

CAS No.	Compound	F90359-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	130 U		625	360	58*	357	57*	1	59-134/14
107-13-1	Acrylonitrile	50 U		625	630	101	620	99	2	62-124/13
71-43-2	Benzene	5.0 U		125	134	107	132	106	2	83-124/11
74-97-5	Bromochloromethane	5.0 U		125	122	98	122	98	0	78-112/10
75-27-4	Bromodichloromethane	5.0 U		125	127	102	127	102	0	76-116/10
75-25-2	Bromoform	5.0 U		125	112	90	112	90	0	68-128/11
108-90-7	Chlorobenzene	5.0 U		125	130	104	130	104	0	87-115/9
75-00-3	Chloroethane	10 U		125	127	102	129	103	2	54-166/20
67-66-3	Chloroform	5.0 U		125	132	106	131	105	1	85-123/10
75-15-0	Carbon disulfide	10 U		125	132	106	131	105	1	67-147/12
56-23-5	Carbon tetrachloride	5.0 U		125	137	110	139	111	1	74-139/13
75-34-3	1,1-Dichloroethane	5.0 U		125	137	110	136	109	1	82-127/10
75-35-4	1,1-Dichloroethylene	5.0 U		125	131	105	145	116	10	75-133/13
96-12-8	1,2-Dibromo-3-chloropropane	10 U		125	114	91	115	92	1	61-118/15
106-93-4	1,2-Dibromoethane	5.0 U		125	126	101	124	99	2	80-115/10
107-06-2	1,2-Dichloroethane	5.0 U		125	127	102	123	98	3	76-122/11
78-87-5	1,2-Dichloropropane	5.0 U		125	131	105	131	105	0	81-120/11
124-48-1	Dibromochloromethane	5.0 U		125	124	99	124	99	0	74-116/11
156-59-2	cis-1,2-Dichloroethylene	111		125	236	100	234	98	1	81-114/10
10061-01-5	cis-1,3-Dichloropropene	5.0 U		125	125	100	123	98	2	83-119/10
95-50-1	o-Dichlorobenzene	5.0 U		125	127	102	128	102	1	85-115/9
106-46-7	p-Dichlorobenzene	5.0 U		125	129	103	127	102	2	87-113/10
156-60-5	trans-1,2-Dichloroethylene	5.0 U		125	139	111	135	108	3	82-126/10
10061-02-6	trans-1,3-Dichloropropene	5.0 U		125	133	106	132	106	1	87-123/10
100-41-4	Ethylbenzene	5.0 U		125	129	103	129	103	0	87-118/10
591-78-6	2-Hexanone	50 U		625	529	85	525	84	1	58-125/14
108-10-1	4-Methyl-2-pentanone	25 U		625	580	93	578	92	0	62-125/13
74-83-9	Methyl bromide	10 U		125	144	115	148	118	3	55-151/21
74-87-3	Methyl chloride	10 U		125	136	109	142	114	4	55-173/22
74-88-4	Methyl iodide	5.0 U		125	125	100	124	99	1	72-125/11
74-95-3	Methylene bromide	10 U		125	128	102	124	99	3	81-116/10
75-09-2	Methylene chloride	13.7	I	125	154	112	152	111	1	69-125/11
78-93-3	Methyl ethyl ketone	25 U		625	469	75	470	75	0	61-127/13
100-42-5	Styrene	5.0 U		125	129	103	128	102	1	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	5.0 U		125	125	100	126	101	1	81-119/10
71-55-6	1,1,1-Trichloroethane	5.0 U		125	139	111	138	110	1	79-133/11

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F90485
Account: RENCM Resolve Environmental
Project: Warren County; Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F90359-1MS	C085169.D	5	02/24/12	WV	n/a	n/a	VC3394
F90359-1MSD	C085170.D	5	02/24/12	WV	n/a	n/a	VC3394
F90359-1	C085161.D	5	02/24/12	WV	n/a	n/a	VC3394

The QC reported here applies to the following samples: **Method:** SW846 8260B

F90485-8, F90485-9

CAS No.	Compound	F90359-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U		125	125	100	126	101	1	71-120/11
79-00-5	1,1,2-Trichloroethane	5.0 U		125	125	100	125	100	0	80-114/11
96-18-4	1,2,3-Trichloropropane	10 U		125	124	99	125	100	1	77-115/12
127-18-4	Tetrachloroethylene	5.0 U		125	135	108	134	107	1	80-131/12
109-99-9	Tetrahydrofuran	25 U		125	115	92	116	93	1	60-125/16
108-88-3	Toluene	5.0 U		125	128	102	127	102	1	86-116/10
79-01-6	Trichloroethylene	29.7		125	164	107	162	106	1	85-124/10
75-69-4	Trichlorofluoromethane	10 U		125	141	113	141	113	0	66-156/15
110-57-6	Trans-1,4-Dichloro-2-Butene	50 U		125	69.1	55	78.6	63	13	51-137/24
75-01-4	Vinyl chloride	10.8		125	142	105	147	109	3	57-153/22
108-05-4	Vinyl Acetate	50 U		625	656	105	656	105	0	38-159/11
1330-20-7	Xylene (total)	15 U		375	389	104	387	103	1	86-120/10

CAS No.	Surrogate Recoveries	MS	MSD	F90359-1	Limits
1868-53-7	Dibromofluoromethane	106%	105%	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	102%	100%	76-127%
2037-26-5	Toluene-D8	104%	104%	104%	86-112%
460-00-4	4-Bromofluorobenzene	103%	104%	106%	84-120%

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F90485
Account: RENCM - Resolve Environmental
Project: Warren County; Warrenton, NC

QC Batch ID: MP22300
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/22/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	20	25		
Antimony	6.0	1	2	-1.2	<6.0
Arsenic	10	1	2	-1.4	<10
Barium	200	1	5	0.10	<200
Beryllium	4.0	.1	1	0.0	<4.0
Cadmium	5.0	.1	1	-0.10	<5.0
Calcium	1000	50	100		
Chromium	10	1	1	0.50	<10
Cobalt	50	1	1	-0.10	<50
Copper	25	1	2	0.80	<25
Iron	300	34	35		
Lead	5.0	1	1	-1.4	<5.0
Magnesium	5000	50	100		
Manganese	15	1	1		
Molybdenum	50	1	2		
Nickel	40	1	2	-0.10	<40
Potassium	10000	50	500		
Selenium	10	2	2	0.10	<10
Silver	10	1	1	0.0	<10
Sodium	10000	750	1900		
Strontium	10	1	1		
Thallium	10	1	1.9		
Tin	50	1	1		
Titanium	10	1.1	2		
Vanadium	50	1	1	-0.10	<50
Zinc	20	1	5	1.2	<20

Associated samples MP22300: F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-8, F90485-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F90485
Account: RENCM - Resolve Environmental
Project: Warren County; Warrenton, NC

QC Batch ID: MP22300
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			02/22/12					02/22/12	
Metal	F90489-1 Original	DUP	RPD	QC Limits	F90489-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony	0.0	0.0	NC	0-20	0.0	515	500	103.0	80-120
Arsenic	2.0	1.4	35.3 (a)	0-20	2.0	2050	2000	102.4	80-120
Barium	48.7	50.9	4.4	0-20	48.7	2160	2000	105.6	80-120
Beryllium	0.0	0.0	NC	0-20	0.0	52.9	50	105.8	80-120
Cadmium	0.0	0.0	NC	0-20	0.0	50.3	50	100.6	80-120
Calcium	anr								
Chromium	5.1	5.4	5.7	0-20	5.1	200	200	97.5	80-120
Cobalt	0.0	0.0	NC	0-20	0.0	489	500	97.8	80-120
Copper	10.1	10.7	5.8	0-20	10.1	269	250	103.6	80-120
Iron	anr								
Lead	0.0	0.0	NC	0-20	0.0	484	500	96.8	80-120
Magnesium	anr								
Manganese									
Molybdenum									
Nickel	4.4	4.4	0.0	0-20	4.4	512	500	101.5	80-120
Potassium	anr								
Selenium	3.2	4.5	33.8 (a)	0-20	3.2	1940	2000	96.8	80-120
Silver	0.0	0.0	NC	0-20	0.0	50.7	50	101.4	80-120
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	8.0	8.2	2.5	0-20	8.0	516	500	101.6	80-120
Zinc	1.0	1.6	46.2 (a)	0-20	1.0	482	500	96.2	80-120

Associated samples MP22300: F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-8, F90485-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F90485
Account: RENCM - Resolve Environmental
Project: Warren County; Warrenton, NC

QC Batch ID: MP22300
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/22/12

Metal	F90489-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	509	500	101.8	1.2	20
Arsenic	2.0	2030	2000	101.4	1.0	20
Barium	48.7	2100	2000	102.6	2.8	20
Beryllium	0.0	51.6	50	103.2	2.5	20
Cadmium	0.0	49.5	50	99.0	1.6	20
Calcium	anr					
Chromium	5.1	198	200	96.5	1.0	20
Cobalt	0.0	481	500	96.2	1.6	20
Copper	10.1	266	250	102.4	1.1	20
Iron	anr					
Lead	0.0	474	500	94.8	2.1	20
Magnesium	anr					
Manganese						
Molybdenum						
Nickel	4.4	503	500	99.7	1.8	20
Potassium	anr					
Selenium	3.2	1920	2000	95.8	1.0	20
Silver	0.0	50.0	50	100.0	1.4	20
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	8.0	509	500	100.2	1.4	20
Zinc	1.0	473	500	94.4	1.9	20

Associated samples MP22300: F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-8, F90485-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F90485
Account: RENCM - Resolve Environmental
Project: Warren County; Warrenton, NC

QC Batch ID: MP22300
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/22/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony	505	500	101.0	80-120
Arsenic	2000	2000	100.0	80-120
Barium	2080	2000	104.0	80-120
Beryllium	52.9	50	105.8	80-120
Cadmium	51.2	50	102.4	80-120
Calcium	anr			
Chromium	202	200	101.0	80-120
Cobalt	502	500	100.4	80-120
Copper	260	250	104.0	80-120
Iron	anr			
Lead	486	500	97.2	80-120
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	520	500	104.0	80-120
Potassium	anr			
Selenium	1920	2000	96.0	80-120
Silver	50.3	50	100.6	80-120
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	510	500	102.0	80-120
Zinc	493	500	98.6	80-120

Associated samples MP22300: F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-8, F90485-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F90485
Account: RENCM - Resolve Environmental
Project: Warren County; Warrenton, NC

QC Batch ID: MP22300
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/22/12

Metal	F90489-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	2.00	0.00	100.0(a)	0-10
Barium	48.7	48.1	1.2	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Chromium	5.10	5.80	13.7 (a)	0-10
Cobalt	0.00	0.00	NC	0-10
Copper	10.1	12.6	24.8 (a)	0-10
Iron	anr			
Lead	0.00	0.00	NC	0-10
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	4.40	0.00	100.0(a)	0-10
Potassium	anr			
Selenium	3.20	0.00	100.0(a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	8.00	5.50	31.3 (a)	0-10
Zinc	1.00	0.00	100.0(a)	0-10

Associated samples MP22300: F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-8, F90485-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: F90485
Account: RENCM - Resolve Environmental
Project: Warren County; Warrenton, NC

QC Batch ID: MP22300
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/22/12

Metal	Sample ml	Final ml	F90489-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10	0	0	111.4	0.2	5	100	111.4	80-120
Arsenic	9.8	10	2	1.96	110.9	0.2	5	100	108.9	80-120
Barium	9.8	10	48.7	47.726	325.2	0.2	12.5	250	111.0	80-120
Beryllium	9.8	10	0	0	57.5	0.2	2.5	50	115.0	80-120
Cadmium	9.8	10	0	0	56.1	0.2	2.5	50	112.2	80-120
Calcium										
Chromium	9.8	10	5.1	4.998	59.1	0.2	2.5	50	108.2	80-120
Cobalt	9.8	10	0	0	54.7	0.2	2.5	50	109.4	80-120
Copper	9.8	10	10.1	9.898	123.2	0.2	5	100	113.3	80-120
Iron										
Lead	9.8	10	0	0	50.8	0.2	2.5	50	101.6	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel	9.8	10	4.4	4.312	114.5	0.2	5	100	110.2	80-120
Potassium										
Selenium	9.8	10	3.2	3.136	109.2	0.2	5	100	106.1	80-120
Silver	9.8	10	0	0	53.8	0.2	2.5	50	107.6	80-120
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium	9.8	10	8	7.84	62.8	0.2	2.5	50	109.9	80-120
Zinc	9.8	10	1	0.98	269.6	0.2	12.5	250	107.4	80-120

Associated samples MP22300: F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-8, F90485-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

(Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Southeast
Subcontract Chain of Custody

ACCUTEST Laboratories

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL 407-425-6700 FAX: 407-425-0707
www.accutest.com

PAGE 1 OF 1

Client / Reporting Information

Company Name: Accutest Laboratories
Address: 4405 Vineland Rd.
City: Orlando State: FL Zip: 32811
Phone #: (407) 426-6700 Fax#: (407) 425-0707

Project Information

Project Name: F90485
Please send report to dawnd@accutest.com
For any other issues contact munam@accutest.com

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Lab ID #	Sample ID	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	TLMS									LAB USE ONLY
	F90485-1	02/17/12	13:22		GW	1					X					X									
	F90485-2	02/17/12	12:51		GW	1					X					X									
	F90485-3	02/17/12	12:15		GW	1					X					X									MEZZ
	F90485-4	02/17/12	11:30		GW	1					X					X									
	F90485-5	02/17/12	13:02		GW	1					X					X									
	F90485-6	02/17/12	12:20		GW	1					X					X									
	F90485-7	02/17/12	11:46		GW	1					X					X									
	F90485-8	02/17/12	10:50		GW	1					X					X									
	F90485-9	02/17/12	10:55		GW	1					X					X									

Turnaround Time (Business days)

Std. 10 Business Days
7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other

Approved By: / Date/Rush Code:
02-28-12

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Ship to Laboratory - ALNJ
Approved by - Muna M.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 R. Miller ASE	1700 02-21-12	2 FX	3 FX 7980 8359 1150	2/22/12 1000	4 ACCUTEST
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal In Place Y N Temp Blank Provided: Y N Preserved Where Applicable Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: wb Ice , 14.0°c

F90485: Chain of Custody
Page 1 of 2
Accutest New Jersey

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: F90485 **Client:** _____ **Project:** _____

Date / Time Received: 2/22/2012 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (14/14);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:		
3. Cooler media:	No Ice	
4. No. Coolers:	1	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☐	☑	☐
2. Trip Blank listed on COC:	☐	☑	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☐	☐	☑

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

6.1

F90485: Chain of Custody
Page 2 of 2

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

(Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F90485
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: RENCM: Warren County; Warrenton, NC

QC Batch ID: MP62884 Methods: SW846 6020A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 02/24/12

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.072	5.3		
Antimony	1.0	.016	.36		
Arsenic	1.0	.46	.093		
Barium	2.0	.01	.055		
Beryllium	1.0	.01	.023		
Boron	10	.87	3.2		
Cadmium	1.0	.034	.039		
Calcium	500	4.8	24		
Chromium	2.0	.14	.11		
Cobalt	1.0	.006	.024		
Copper	2.0	.046	.25		
Iron	50	.33	4.3		
Lead	1.0	.006	.11		
Magnesium	500	.28	3.7		
Manganese	2.0	.024	.089		
Molybdenum	2.0	.026	.053		
Nickel	2.0	.028	1.2		
Potassium	500	7.5	16		
Selenium	1.0	.06	.17		
Silver	1.0	.006	.021		
Sodium	500	13	24		
Strontium	10	.006	.052		
Thallium	1.0	.082	.25	0.097	<1.0
Tin	10	.014	.43		
Titanium	2.0	.052	.37		
Vanadium	2.0	.74	.26		
Zinc	4.0	.1	2.2		

Associated samples MP62884: F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-8, F90485-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F90485
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: RENCM: Warren County; Warrenton, NC

QC Batch ID: MP62884
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 02/24/12

Metal	JA99470-1 Original MS		Spikelot MPIRW1	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium	0.29	1970	2000	98.5	75-125
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP62884: F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-8, F90485-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F90485
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: RENCM: Warren County; Warrenton, NC

QC Batch ID: MP62884 Methods: SW846 6020A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 02/24/12

Metal	JA99470-1 Original	MSD	Spikelot MPIRW1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium	0.29	1970	2000	98.5	0.0	20
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP62884: F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-8, F90485-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F90485
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: RENCM: Warren County; Warrenton, NC

QC Batch ID: MP62884
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 02/24/12

Metal	LCS Result	Spikelot MPLCW3	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium	505	500	101.0	80-120
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP62884: F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-8, F90485-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F90485
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: RENCM: Warren County; Warrenton, NC

QC Batch ID: MP62884
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 02/24/12

Metal	JA99470-1 Original	SDL 2:10	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium	0.287	0.956	232.8(a)	0-10
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP62884: F90485-1, F90485-2, F90485-3, F90485-4, F90485-5, F90485-6, F90485-7, F90485-8, F90485-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).