March 25, 2015

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

Re: First Semi-Annual 2015 Ground Water Monitoring Event
Warren County Closed Sanitary Landfill
Warrenton, North Carolina
Resolve Project No. 765.22

Dear Mr. Brothers:

Resolve Environmental Services, PLLC (Resolve) respectfully presents results of the first semi-annual 2015 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 27, 2015, 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, SW-2 and SW-3) were collected along the tributary of Possumquarter Creek during the February 2015 sampling event. Please note that a ground water sample could not be collected from the nearby water supply well (WSW-1 at 539 Baltimore Avenue). The owner of the well stated that the well needed to be replaced and should be active in the near future. 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. 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. 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. Prior to sample collection, field parameters for temperature, pH, and specific conductance were measured using calibrated field instrumentation. Well gauging data and measured field parameters are summarized in **Table 1**. 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.

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 Method 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 and/or estimated concentrations of benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethylene and zinc were reported in the ground water sample collected from MW-1A. The concentrations did not exceed the North Carolina ground water quality standards (NCGWQS) established in T15A NCAC 2L.0202.

MW-2:
Detectable and/or estimated concentrations of benzene, chlorobenzene, chloroethane, 1,4-dichlorobenzene, 1,1-dichloroethane, cis-1,2-dichloroethylene, cobalt and zinc were reported in the ground water sample collected from MW-2. The concentration of benzene exceeed the NCGWQS. None of other concentrations exceeded the NCGWQS, if established. Currently, there is no NCGWQS established for chloroethane or cobalt; therefore, the concentrations are reportable.

MW-3:
Detectable and/or estimated concentrations of benzene, chlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, 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, if established. Currently, there is no NCGWQS established for tetrahydrofuran; therefore, the concentration is reportable.

MW-4:
Detectable and/or estimated concentrations of benzene, 1,1-dichloroethane and cis-1,2-dichloroethylene were reported in the ground water sample from MW-4. None of the reported concentrations exceeded the NCGWQS.

SW-1:
No detectable concentrations of requested method constituents were reported in the surface water sample collected from SW-1.

SW-2:
No detectable concentrations of requested method constituents were reported in the surface water sample collected from SW-2.

SW-3:
An estimated concentration of cis-1,2-dichloroethylene was reported in the surface water sample collected from SW-3. The concentration does not exceed the NCGWQS.

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

Trip Blank:
No detectable concentrations of requested method constituents were reported in the trip blank.

The current laboratory analytical results are summarized in **Table 2**. Historical laboratory data is summarized in **Table 3**. A copy of the laboratory analytical report is attached as **Appendix A**. An environmental monitoring NCDENR report form is enclosed as **Appendix B**.

Based upon the current sampling data, a ground water quality violation exists at the site. The next scheduled sampling event will be conducted in August 2015.

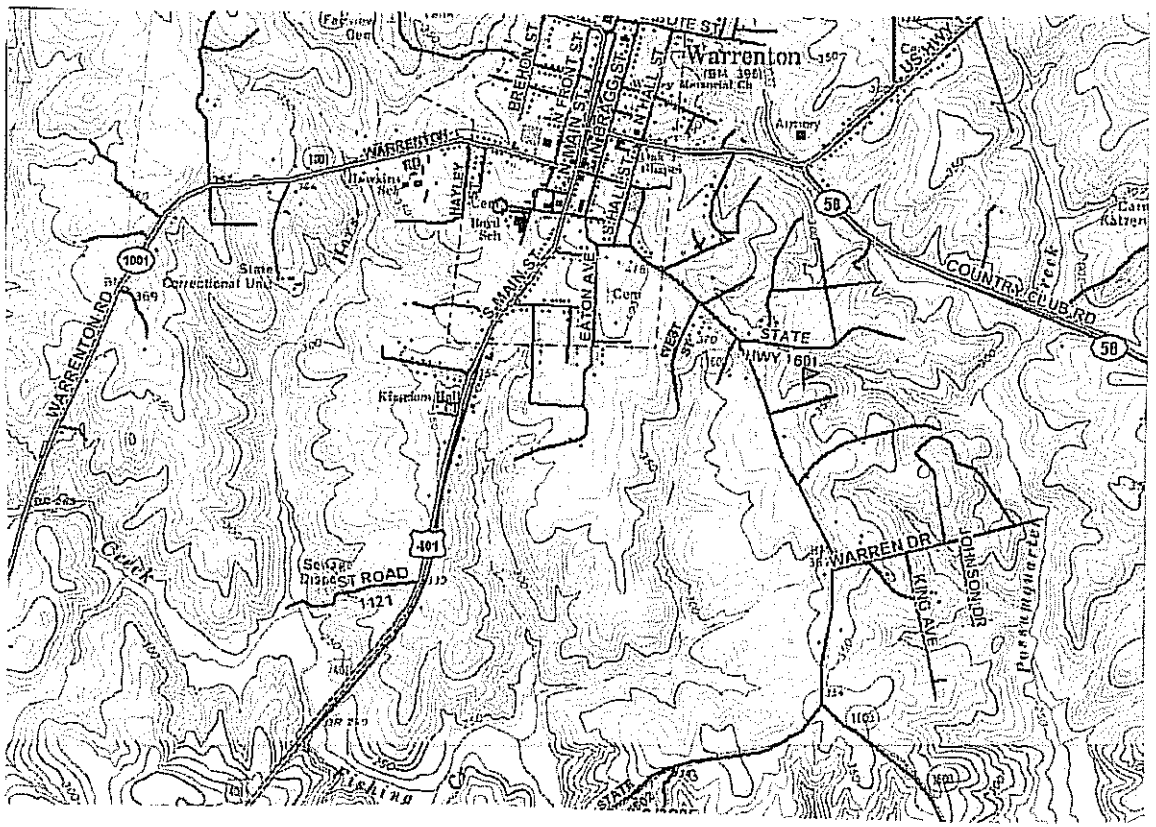
Please call if you have any questions or require any additional information at (704) 289-5881.

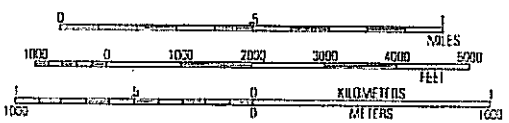
Sincerely,

Laura Minor
Project Manager

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

FIGURES



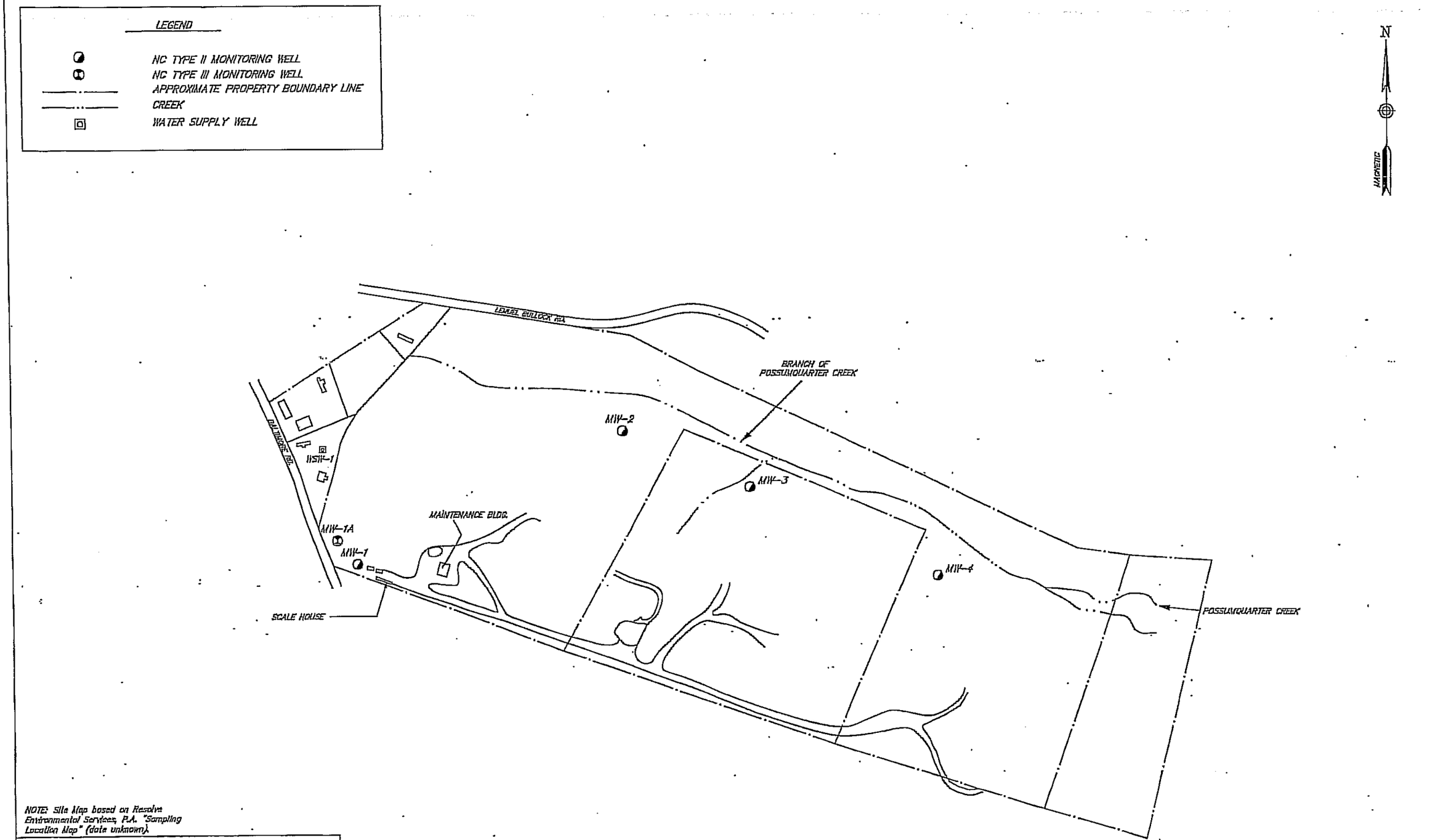


SITE LOCATION MAP

WARREN COUNTY CLOSED SANITARY LANDFILL
559 BALTIMORE ROAD
WARRENTON, WARREN COUNTY, NC

Figure: 1

RESOLVE ENVIRONMENTAL SERVICES, PLLC



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

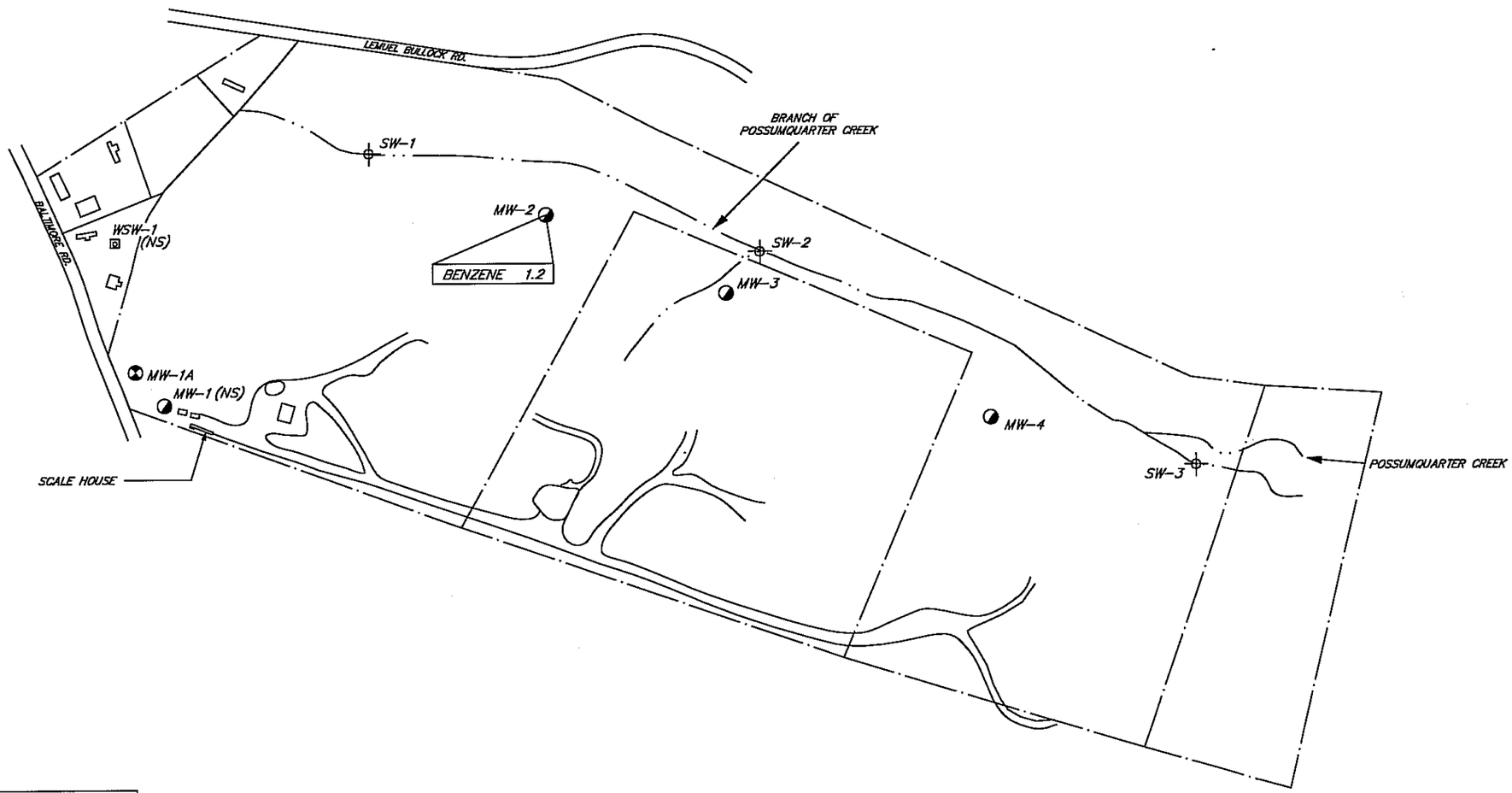
SITE MAP			
WARREN COUNTY LANDFILL 559 BALTIMORE ROAD, WARRENTON, WARREN COUNTY, NC PERMIT # 93-01			
Date: 09/13/11	Drawn by: LJM	Figure: 2	
RESOLVE ENVIRONMENTAL SERVICES, PLLC			

LEGEND

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

RESULTS REPORTED IN ug/L

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



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 (2/27/15)

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

Date: 3/16/15	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: 3/16/15

Sample Location	Total Well Depth (feet)	Depth to Water (feet)	Temperature (in C)	pH	Specific Conductance (mS/cm)	Volume Purged (gals)
MW-1A	40.83	33.33	17.20	5.77	0.149	3.75
MW-2	15.70	5.31	11.40	6.22	0.302	4.50
MW-3	28.86	5.15	12.70	6.01	0.229	11.50
MW-4	22.00	3.17	11.00	7.07	0.307	9.00

Notes:
- Gauging and field parameters collected on February 27, 2015 by Resolve personnel.
- All measurements relative to the top of well casing.

TABLE 2
SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES
WARREN COUNTY CLOSED SANITARY LANDFILL

Date : 3/16/15

Analytical Method →		Appendix I - 8260							Appendix I - 6010	
Contaminant of Concern →										
Well ID	Date Collected (mm/dd/yy)	Benzene	Chlorobenzene	Chloroethane	1,4-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethylene	Tetrahydrofuran	Cobalt	Zinc
NCGWQS (ug/L)		1	50	NE	6	6	70	NE	NE	2,100
MW-1A	02/27/15	0.58J	<0.20	<0.50	2.2	<0.20	1.5	<1.6	<50	38.8
MW-2	02/27/15	**1.2**	1.3	5.1	3.5	0.55J	6.9	<1.6	181	42.7
MW-3	02/27/15	0.32J	0.66J	<0.50	0.67J	0.68J	1.7	4.8J	<50	<20
MW-4	02/27/15	0.30J	<0.20	<0.50	<0.25	0.39J	1.2	<1.6	<50	<20
SW-1	02/27/15	<0.20	<0.20	<0.50	<0.25	<0.20	<0.22	<1.6	<50	<20
SW-2	02/27/15	<0.20	<0.20	<0.50	<0.25	<0.20	<0.22	<1.6	<50	<20
SW-3	02/27/15	<0.20	<0.20	<0.50	<0.25	<0.20	0.36J	<1.6	<50	<20
WSW-1	02/27/15	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	02/27/15	<0.20	<0.20	<0.50	<0.25	<0.20	<0.22	<1.6	<50	<20
Trip Blank	02/27/15	<0.20	<0.20	<0.50	<0.25	<0.20	<0.22	<1.6	NR	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.
- NE: Not established.
- J: Estimated concentration.
- NR: Analysis not requested.
- NS: Not sampled; well temporarily out of service.

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

Date: 3/16/15

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
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
	8/27/2012	1.4	<0.20	<0.50	2.4	<0.25	2.6	<2.0	10.3	17.8	NR
	2/14/2013	1.3	<0.20	<0.50	<0.20	<0.21	2.6	<1.0	<10	12.8	NR
	8/13/2013	0.90 J	<0.20	<0.50	2.5	<0.21	2.4	<1.0	<10	<5.0	NR
	2/11/2014	0.91 J	<0.24	<0.50	2.2	<0.26	1.9	<1.3	<10	15.5	NR
	8/25/2014	<0.24	<0.24	<0.50	<0.20	<0.26	<0.33	<1.3	<10	5.5	NR
	2/27/2015	0.58J	<0.20	<0.50	2.2	<0.20	1.5	<1.6	<10	<5.0	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
	8/27/2012	0.66 J	1.0	1.8 J	2.0	0.33 J	3.3	<2.0	<10	6.1	NR
	2/14/2013	1.5	2.0	9.0	4.8	0.96 J	9.1	<1.0	<10	<5.0	NR
	8/13/2013	2.6	2.9	10.0	6.6	1.3	15.2	<1.0	<10	22.3	NR
	2/11/2014	1.7	2.0	9.0	5.1	0.77 J	10.2	<1.3	<10	<5.0	NR
	8/25/2014	0.62 J	<0.24	<0.50	2.3	<0.26	1.7	<1.3	<10	13.9	NR
	2/27/2015	1.2	1.3	5.1	3.5	0.55J	6.9	<1.6	<10	<5.0	NR

TABLE 3
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WARREN COUNTY CLOSED SANITARY LANDFILL

Date: 3/16/15

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
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
	8/27/2012	0.32 J	0.66 J	<0.50	0.66 J	0.67 J	2.0	10.2	<10	<5.0	NR
	2/14/2013	0.41 J	0.60 J	1.6 J	0.75 J	0.92 J	2.3	8.8	<10	<5.0	NR
	8/13/2013	0.41 J	0.67 J	0.58 J	0.79 J	0.78 J	2.5	8.0	<10	<5.0	NR
	2/11/2014	0.32 J	0.67 J	<0.50	0.68 J	0.63 J	2.0	7.4	<10	<5.0	NR
	8/25/2014	0.65 J	1.1	3.2	2.5	<0.26	4.2	<1.3	<10	<5.0	NR
	2/27/2015	0.32J	0.66J	<0.50	0.67J	0.68J	1.7	4.8 J	<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
	8/27/2012	0.33 J	<0.20	<0.50	<0.23	0.32 J	0.96 J	<2.0	**23.5**	<5.0	NR
	2/14/2013	0.38 J	<0.20	<0.50	0.31 J	0.40 J	1.4	<1.0	**30.2**	<5.0	NR
	8/13/2013	0.31 J	<0.20	<0.50	0.31 J	0.34 J	1.4	<1.0	<10	<5.0	NR
	2/11/2014	0.35 J	<0.24	<0.50	0.30 J	0.39 J	1.4	<1.3	<10	<5.0	NR
	8/25/2014	0.27 J	0.56 J	0.59 J	<0.20	0.53 J	1.9	6.2	<10	<5.0	NR
	2/27/2015	0.30J	<0.20	<0.50	<0.25	0.39J	1.2	<1.6	<10	<5.0	NR
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
	8/27/2012	<0.20	<0.20	<0.50	<0.23	<0.25	<0.26	<2.0	<10	18.1	NR
	2/14/2013	<0.21	<0.20	<0.50	0.27 J	<0.21	0.55 J	<1.0	<10	<5.0	NR
	8/13/2013	<0.21	<0.20	<0.50	0.25 J	<0.21	0.53 J	<2.0	<10	<5.0	NR
	2/11/2014	<0.24	<0.24	<0.50	<0.20	<0.26	<0.33	<1.3	<10	<5.0	NR
	8/25/2014	0.35 J	<0.24	<0.50	<0.20	<0.26	1.4	<1.3	<10	<5.0	NR
	2/27/2015	<0.20	<0.20	<0.50	<0.25	<0.20	<0.22	<1.6	<10	<5.0	NR

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

Date: 3/16/15

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-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
	8/27/2012	<0.20	<0.20	<0.50	<0.23	<0.25	<0.26	<2.0	<10	<5.0	NR
	2/14/2013	<0.21	<0.20	<0.50	<0.20	<0.21	<0.24	<1.0	<10	<5.0	NR
	8/13/2013	<0.21	<0.20	<0.50	<0.20	<0.21	<0.24	<1.0	<10	<5.0	NR
	2/11/2014	<0.24	<0.24	<0.50	<0.20	<0.26	<0.33	<1.3	<10	<5.0	NR
	8/25/2014	<0.24	<0.24	<0.50	<0.20	<0.26	<0.33	<1.3	<10	<5.0	NR
	2/27/2015	<0.20	<0.20	<0.50	<0.25	<0.20	<0.22	<1.6	<10	<5.0	NR
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
	8/27/2012	<0.20	<0.20	<0.50	<0.23	<0.25	0.35 J	<2.0	<10	<5.0	NR
	2/14/2013	<0.21	<0.20	<0.50	<0.20	<0.21	<0.24	<1.0	<10	<5.0	NR
	8/13/2013	<0.21	<0.20	<0.50	<0.20	<0.21	<0.24	<1.0	<10	<5.0	NR
	2/11/2014	<0.24	<0.24	<0.50	<0.20	<0.26	0.44 J	<1.3	<10	<5.0	NR
	8/25/2014	<0.24	<0.24	<0.50	<0.20	<0.26	<0.33	<1.3	<10	<5.0	NR
	2/27/2015	<0.20	<0.20	<0.50	<0.25	<0.20	0.36J	<1.6	<10	<5.0	NR

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

Date: 3/16/15

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
	8/27/2012	<0.20	<0.20	<0.50	<0.23	<0.25	<0.26	<2.0	<10	<5.0	NR
	2/14/2013	<0.21	<0.20	<0.50	<0.20	<0.21	<0.24	<1.0	10.1	<5.0	NR
	8/13/2013	<0.21	<0.20	<0.50	<0.20	<0.21	<0.24	<1.0	<10	<5.0	NR
	2/11/2014	<0.24	<0.24	<0.50	<0.20	<0.26	<0.33	<1.3	<10	<5.0	NR
	8/25/2014	<0.24	<0.24	<0.50	<0.20	<0.26	<0.33	<1.3	<10	<5.0	NR
	2/27/2015	NR	NR	NR	NR	NR	NR	NR	NR	NR	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; a concentration of toluene (0.22 J µg/L) was reported in surface water sample SW-3 on 8/27/12; concentrations of ethylbenzene (0.37 J µg/L), toluene (0.23 J µg/L) and barium (230 µg/L) reported in the sample collected from MW-2 on 8/13/13; a concentration of zinc (43.0 µg/L) was reported in the sample collected from MW-1A on 8/25/14; concentrations of cobalt (72.7 µg/L) and zinc (64.2 µg/L) were reported in the sample collected from MW-2 on 8/25/14; concentrations of zinc were reported in samples SW-1 (27.1 µg/L) and WSW-1 (30.2 µg/L) on 8/25/14; a concentration of zinc (38.8 µg/L) was reported in the sample collected from MW-1A on 2/27/15 and concentrations of cobalt (181 µg/L) and zinc (42.7 µg/L) were reported in the ground water sample collected from MW-2 on 2/27/15.
- J: Estimated concentration.

APPENDICES

APPENDIX A
Laboratory Analytical Report – Ground Water Samples

Southeast ACCUTEST LABORATORIES

03/11/15

Technical Report for

Resolve Environmental

Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

Accutest Job Number: FA22497

Sampling Date: 02/27/15

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**

NELAP ACCREDITED TNI LABORATORY

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

Norm Farmer
Technical 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)
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Accutest Laboratories

Sample Summary

Resolve Environmental

Job No: FA22497

Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA22497-1	02/27/15	11:53	WB	03/03/15	AQ	Ground Water	MW-1A
FA22497-2	02/27/15	11:05	WB	03/03/15	AQ	Ground Water	MW-2
FA22497-3	02/27/15	10:30	WB	03/03/15	AQ	Ground Water	MW-3
FA22497-4	02/27/15	09:46	WB	03/03/15	AQ	Ground Water	MW-4
FA22497-5	02/27/15	11:14	WB	03/03/15	AQ	Ground Water	SW-1
FA22497-6	02/27/15	10:40	WB	03/03/15	AQ	Ground Water	SW-2
FA22497-7	02/27/15	09:55	WB	03/03/15	AQ	Ground Water	SW-3
FA22497-8	02/27/15	11:38	WB	03/03/15	AQ	Equipment Blank	EQUIPMENT BLANK
FA22497-9	02/27/15	00:00	WB	03/03/15	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: FA22497
Account: Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC
Collected: 02/27/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA22497-1	**MW-1A**					
Benzene		0.58 J	1.0	0.20	ug/l	SW846 8260B
1,4-Dichlorobenzene		2.2	1.0	0.25	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		1.5	1.0	0.22	ug/l	SW846 8260B
Zinc		38.8	20		ug/l	SW846 6010C
FA22497-2	**MW-2**					
Benzene		1.2	1.0	0.20	ug/l	SW846 8260B
Chlorobenzene		1.3	1.0	0.20	ug/l	SW846 8260B
Chloroethane		5.1	2.0	0.50	ug/l	SW846 8260B
1,4-Dichlorobenzene		3.5	1.0	0.25	ug/l	SW846 8260B
1,1-Dichloroethane		0.55 J	1.0	0.20	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		6.9	1.0	0.22	ug/l	SW846 8260B
Cobalt		181	50		ug/l	SW846 6010C
Zinc		42.7	20		ug/l	SW846 6010C
FA22497-3	**MW-3**					
Benzene		0.32 J	1.0	0.20	ug/l	SW846 8260B
Chlorobenzene		0.66 J	1.0	0.20	ug/l	SW846 8260B
1,4-Dichlorobenzene		0.67 J	1.0	0.25	ug/l	SW846 8260B
1,1-Dichloroethane		0.68 J	1.0	0.20	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		1.7	1.0	0.22	ug/l	SW846 8260B
Tetrahydrofuran		4.8 J	5.0	1.6	ug/l	SW846 8260B
FA22497-4	**MW-4**					
Benzene		0.30 J	1.0	0.20	ug/l	SW846 8260B
1,1-Dichloroethane		0.39 J	1.0	0.20	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		1.2	1.0	0.22	ug/l	SW846 8260B
FA22497-5	**SW-1**					
No hits reported in this sample.						
FA22497-6	**SW-2**					
No hits reported in this sample.						
FA22497-7	**SW-3**					
cis-1,2-Dichloroethylene		0.36 J	1.0	0.22	ug/l	SW846 8260B

Summary of Hits

Job Number: FA22497
Account: Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC
Collected: 02/27/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

FA22497-8 EQUIPMENT BLANK

No hits reported in this sample.

FA22497-9 TRIP BLANK

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-1A		
Lab Sample ID:	FA22497-1	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0105131.D	1	03/06/15	EP	n/a	n/a	VC4201
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	2.0	ug/l	
71-43-2	Benzene	0.58	1.0	0.20	ug/l	J
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	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	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	2.2	1.0	0.25	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.5	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	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	0.24	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	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

Report of Analysis

Client Sample ID:	MW-1A		
Lab Sample ID:	FA22497-1	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.6	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

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

Report of Analysis

Client Sample ID:	MW-1A		
Lab Sample ID:	FA22497-1	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
		Percent Solids:	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Nickel	< 40	40	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Thallium [a]	< 1.0	1.0	ug/l	2	03/10/15	03/10/15	ANJ	SW846 6020A [3]	SW846 3010A [6]
Vanadium	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	38.8	20	ug/l	1	03/06/15	03/06/15	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA12250
(2) Instrument QC Batch: MA12256
(3) Instrument QC Batch: N:MA36199
(4) Prep QC Batch: MP28616
(5) Prep QC Batch: MP28626
(6) Prep QC Batch: N:MP85201

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	FA22497-2	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0105132.D	1	03/06/15	EP	n/a	n/a	VC4201
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	1.2	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	1.3	1.0	0.20	ug/l	
75-00-3	Chloroethane	5.1	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	3.5	1.0	0.25	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	0.55	1.0	0.20	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	6.9	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	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	0.24	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	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

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	FA22497-2	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

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CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.6	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

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

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	FA22497-2	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
		Percent Solids:	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Arsenic	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Beryllium	< 4.0	4.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Cadmium	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Cobalt	181	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Copper	< 25	25	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Lead	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Nickel	< 40	40	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Thallium [a]	< 1.0	1.0	ug/l	2	03/10/15	03/10/15	ANJ	SW846 6020A [3]	SW846 3010A [6]
Vanadium	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [4]
Zinc	42.7	20	ug/l	1	03/06/15	03/06/15	LM	SW846 6010C [2]	SW846 3010A [5]

(1) Instrument QC Batch: MA12250
(2) Instrument QC Batch: MA12256
(3) Instrument QC Batch: N:MA36199
(4) Prep QC Batch: MP28616
(5) Prep QC Batch: MP28626
(6) Prep QC Batch: N:MP85201

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	FA22497-3	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0105133.D	1	03/06/15	EP	n/a	n/a	VC4201
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.32	1.0	0.20	ug/l	J
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	ug/l	
108-90-7	Chlorobenzene	0.66	1.0	0.20	ug/l	J
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.67	1.0	0.25	ug/l	J
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	0.68	1.0	0.20	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.7	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	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	0.24	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	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

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	FA22497-3	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

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CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
109-99-9	Tetrahydrofuran	4.8	5.0	1.6	ug/l	J
108-88-3	Toluene	ND	1.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	111%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

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

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	FA22497-3	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
		Percent Solids:	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 1.0	1.0	ug/l	2	03/10/15	03/10/15	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA12250
(2) Instrument QC Batch: N:MA36199
(3) Prep QC Batch: MP28616
(4) Prep QC Batch: N:MP85201

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	FA22497-4	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0105134.D	1	03/06/15	EP	n/a	n/a	VC4201
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	0.30	1.0	0.20	ug/l	J
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	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	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	0.39	1.0	0.20	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.2	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	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	0.24	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	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

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	FA22497-4	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

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CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.6	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	111%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

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

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	FA22497-4	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
		Percent Solids:	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 1.0	1.0	ug/l	2	03/10/15	03/10/15	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA12250
(2) Instrument QC Batch: N:MA36199
(3) Prep QC Batch: MP28616
(4) Prep QC Batch: N:MP85201

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SW-1		
Lab Sample ID:	FA22497-5	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0105135.D	1	03/06/15	EP	n/a	n/a	VC4201
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	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	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	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	0.24	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	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

Report of Analysis

Client Sample ID:	SW-1		
Lab Sample ID:	FA22497-5	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

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CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.6	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	109%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

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

Report of Analysis

Client Sample ID:	SW-1		
Lab Sample ID:	FA22497-5	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
		Percent Solids:	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 1.0	1.0	ug/l	2	03/10/15	03/10/15	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA12250
(2) Instrument QC Batch: N:MA36199
(3) Prep QC Batch: MP28616
(4) Prep QC Batch: N:MP85201

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SW-2		
Lab Sample ID:	FA22497-6	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0105136.D	1	03/06/15	EP	n/a	n/a	VC4201
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	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	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	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	0.24	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	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

Report of Analysis

Client Sample ID:	SW-2		
Lab Sample ID:	FA22497-6	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

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CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.6	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	111%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

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

Report of Analysis

Client Sample ID:	SW-2		
Lab Sample ID:	FA22497-6	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
		Percent Solids:	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 1.0	1.0	ug/l	1	03/10/15	03/10/15	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA12250
(2) Instrument QC Batch: N:MA36199
(3) Prep QC Batch: MP28616
(4) Prep QC Batch: N:MP85201

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SW-3		
Lab Sample ID:	FA22497-7	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0105137.D	1	03/06/15	EP	n/a	n/a	VC4201
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	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	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.36	1.0	0.22	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	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	0.24	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	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

Report of Analysis

Client Sample ID:	SW-3		
Lab Sample ID:	FA22497-7	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

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CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.6	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	112%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

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

Report of Analysis

Client Sample ID:	SW-3		
Lab Sample ID:	FA22497-7	**Date Sampled:**	02/27/15
Matrix:	AQ - Ground Water	**Date Received:**	03/03/15
		Percent Solids:	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 1.0	1.0	ug/l	2	03/10/15	03/10/15	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA12250
(2) Instrument QC Batch: N:MA36199
(3) Prep QC Batch: MP28616
(4) Prep QC Batch: N:MP85201

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	FA22497-8	**Date Sampled:**	02/27/15
Matrix:	AQ - Equipment Blank	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0105138.D	1	03/06/15	EP	n/a	n/a	VC4201
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	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	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	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	0.24	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	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

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	FA22497-8	**Date Sampled:**	02/27/15
Matrix:	AQ - Equipment Blank	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.6	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	113%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

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

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	FA22497-8	**Date Sampled:**	02/27/15
Matrix:	AQ - Equipment Blank	**Date Received:**	03/03/15
		Percent Solids:	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Arsenic	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Beryllium	< 4.0	4.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Cadmium	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Copper	< 25	25	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Lead	< 5.0	5.0	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Nickel	< 40	40	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Thallium [a]	< 1.0	1.0	ug/l	2	03/10/15	03/10/15	ANJ	SW846 6020A [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	03/04/15	03/04/15	LM	SW846 6010C [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA12250
(2) Instrument QC Batch: N:MA36199
(3) Prep QC Batch: MP28616
(4) Prep QC Batch: N:MP85201

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA22497-9	**Date Sampled:**	02/27/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0105139.D	1	03/06/15	EP	n/a	n/a	VC4201
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	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	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	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	0.24	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.25	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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA22497-9	**Date Sampled:**	02/27/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/03/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Warren County Landfill; 559 Baltimore Rd, Warrenton, NC		

VOA Appendix I 40 CFR Part 258

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.6	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	112%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- 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 # FA22497 PAGE 1 OF 1

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: RESOLVE ENVIRONMENTAL
Address: 410 E. FRANKLIN ST.
City: MONROE State: NC Zip: 28112
Project Contact: LAURA MINOR RESOLVE@CAROLINA.RR.COM E-mail
Phone#: 704-289-5881
Sampler(s) Name(s) (Printed): W. Scott Bell

Project Information

Project Name: WARREN CO. LANDFILL
Street: 559 BATTLEGROUND ROAD
City: WARRENTON State: NC
Project #
Fax #
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	Approved VOCs 624/8260	Approved Metals 6010
1	MW-1A	2-27-15	1153	SB	GW	4			3		1					X	X
2	MW-2	2-27-15	1105	SB	GW	4			3		1					X	X
3	MW-3	2-27-15	1030	SB	GW	4			3		1					X	X
4	MW-4	2-27-15	0946	SB	GW	4			3		1					X	X
5	SW-1	2-27-15	1114	SB	SW	4			3		1					X	X
6	SW-2	2-27-15	1040	SB	SW	4			3		1					X	X
7	SW-3	2-27-15	0955	SB	SW	4			3		1					X	X
8	EQUIPMENT BLANK	2-27-15	1138	SB	WW	4			3		1					X	X
9	TRIP BLANK	-	-	-	WW	2			2							X	

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 USE ONLY

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

ACCUTEST 2828-C QUEEN CT CLT NC 28203

Comments / Remarks

INCLUDE TETRAHYDROFURAN ON THE VOC LIST

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 W. Scott Bell	3/2 10:45	2 [signature]	3 [signature]	3/2 16:00	4 FD
Relinquished by: 5 FD 03-03-15	Date Time: 930	Received By: 6 [signature]	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: 24

4.1 4

FA22497: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA22497 CLIENT: Resolve PROJECT: Warren land Fill

DATE/TIME RECEIVED: 03-03-15 930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 8053 9195 6725

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

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 2.4

TRIP BLANK INFORMATION

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

SAMPLE INFORMATION

- [ ] 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
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ?

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 03-03-15 REVIEWER SIGNATURE/DATE 3-3-15

NF 10/14 receipt confirmation 102914.xls

4.1

4

FA22497: Chain of Custody
Page 2 of 3

ORIGIN ID:PNVA

UNITED STATES US

TO

ACCUTEST LAB
4405 VINELAND RD
STE C15
ORLANDO FL 32811
(407) 425-6700

BILL SENDER

FedEx Express

TUE - 03 MAR 3:00
STANDARD OVERNIGH

TRK# 0862 8053 9195 6725

XH TIXA

32811
FL-US MCO

4.1 4

FA22497: Chain of Custody

Page 3 of 3

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: FA22497
Account: RENCM Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4201-MB	C0105124.D	1	03/06/15	EP	n/a	n/a	VC4201

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

FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8, FA22497-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.34	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.22	ug/l	
75-25-2	Bromoform	ND	1.0	0.32	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	1.2	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.29	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.28	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	0.30	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.42	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.25	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	10	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.27	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
591-78-6	2-Hexanone	ND	10	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	0.24	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	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.22	ug/l	

Method Blank Summary

Job Number: FA22497
Account: RENCM Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4201-MB	C0105124.D	1	03/06/15	EP	n/a	n/a	VC4201

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

FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8, FA22497-9

CAS No.	Compound	Result	RL	MDL	Units	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.22	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.33	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.6	ug/l	
108-88-3	Toluene	ND	1.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.26	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.25	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.51	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

Blank Spike Summary

Job Number: FA22497
Account: RENCM Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4201-BS	C0105122.D	1	03/06/15	EP	n/a	n/a	VC4201

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

FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8, FA22497-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	126	101	50-147
107-13-1	Acrylonitrile	125	122	98	58-126
71-43-2	Benzene	25	26.5	106	81-122
74-97-5	Bromochloromethane	25	26.3	105	76-123
75-27-4	Bromodichloromethane	25	28.4	114	79-123
75-25-2	Bromoform	25	27.6	110	66-123
78-93-3	2-Butanone (MEK)	125	123	98	56-143
75-15-0	Carbon Disulfide	25	32.7	131	66-148
56-23-5	Carbon Tetrachloride	25	31.4	126	76-136
108-90-7	Chlorobenzene	25	27.7	111	82-124
75-00-3	Chloroethane	25	27.0	108	62-144
67-66-3	Chloroform	25	28.0	112	80-124
124-48-1	Dibromochloromethane	25	29.8	119	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	26.4	106	64-123
106-93-4	1,2-Dibromoethane	25	26.2	105	75-120
95-50-1	1,2-Dichlorobenzene	25	27.7	111	82-124
106-46-7	1,4-Dichlorobenzene	25	25.9	104	78-120
110-57-6	trans-1,4-Dichloro-2-Butene	25	23.3	93	43-145
75-34-3	1,1-Dichloroethane	25	30.3	121	81-122
107-06-2	1,2-Dichloroethane	25	26.8	107	75-125
75-35-4	1,1-Dichloroethylene	25	27.9	112	78-137
156-59-2	cis-1,2-Dichloroethylene	25	26.5	106	78-120
156-60-5	trans-1,2-Dichloroethylene	25	29.8	119	76-127
78-87-5	1,2-Dichloropropane	25	26.0	104	76-124
10061-01-5	cis-1,3-Dichloropropene	25	26.9	108	75-118
10061-02-6	trans-1,3-Dichloropropene	25	28.2	113	80-120
100-41-4	Ethylbenzene	25	27.1	108	81-121
591-78-6	2-Hexanone	125	119	95	61-129
74-83-9	Methyl Bromide	25	26.1	104	59-143
74-87-3	Methyl Chloride	25	26.6	106	50-159
74-88-4	Methyl Iodide	25	25.5	102	73-123
74-95-3	Methylene Bromide	25	28.2	113	78-119
75-09-2	Methylene Chloride	25	29.0	116	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	120	96	66-122
100-42-5	Styrene	25	29.3	117	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	28.1	112	77-122

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA22497
Account: RENCM Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4201-BS	C0105122.D	1	03/06/15	EP	n/a	n/a	VC4201

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

FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8, FA22497-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-34-5	1,1,2,2-Tetrachloroethane	25	25.5	102	72-120
127-18-4	Tetrachloroethylene	25	26.0	104	76-135
109-99-9	Tetrahydrofuran	25	29.1	116	56-122
108-88-3	Toluene	25	26.7	107	80-120
71-55-6	1,1,1-Trichloroethane	25	26.6	106	75-130
79-00-5	1,1,2-Trichloroethane	25	25.8	103	76-119
79-01-6	Trichloroethylene	25	26.5	106	81-126
75-69-4	Trichlorofluoromethane	25	30.4	122	71-156
96-18-4	1,2,3-Trichloropropane	25	25.0	100	77-120
108-05-4	Vinyl Acetate	125	86.5	69	43-154
75-01-4	Vinyl Chloride	25	26.6	106	69-159
1330-20-7	Xylene (total)	75	88.5	118	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA22497
Account: RENCM Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA22497-1MS	C0105146.D	1	03/06/15	EP	n/a	n/a	VC4201
FA22497-1MSD	C0105147.D	1	03/06/15	EP	n/a	n/a	VC4201
FA22497-1	C0105131.D	1	03/06/15	EP	n/a	n/a	VC4201

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

FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8, FA22497-9

CAS No.	Compound	FA22497-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	121	97	125	120	96	1	50-147/21
107-13-1	Acrylonitrile	ND		125	118	94	125	118	94	0	58-126/16
71-43-2	Benzene	0.58	J	25	26.4	103	25	25.5	100	3	81-122/14
74-97-5	Bromochloromethane	ND		25	25.6	102	25	24.8	99	3	76-123/14
75-27-4	Bromodichloromethane	ND		25	27.3	109	25	27.1	108	1	79-123/19
75-25-2	Bromoform	ND		25	25.5	102	25	25.2	101	1	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	125	100	125	124	99	1	56-143/18
75-15-0	Carbon Disulfide	ND		25	32.0	128	25	31.6	126	1	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	31.2	125	25	29.9	120	4	76-136/23
108-90-7	Chlorobenzene	ND		25	27.0	108	25	26.1	104	3	82-124/14
75-00-3	Chloroethane	ND		25	28.3	113	25	28.3	113	0	62-144/20
67-66-3	Chloroform	ND		25	26.0	104	25	25.4	102	2	80-124/15
124-48-1	Dibromochloromethane	ND		25	28.0	112	25	27.4	110	2	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	25.5	102	25	24.6	98	4	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	24.5	98	25	24.3	97	1	75-120/13
95-50-1	1,2-Dichlorobenzene	ND		25	26.3	105	25	26.4	106	0	82-124/14
106-46-7	1,4-Dichlorobenzene	2.2		25	27.2	100	25	27.0	99	1	78-120/15
110-57-6	trans-1,4-Dichloro-2-Butene	ND		25	18.2	73	25	18.4	74	1	43-145/34
75-34-3	1,1-Dichloroethane	ND		25	29.8	119	25	29.4	118	1	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	25.9	104	25	25.7	103	1	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	26.8	107	25	25.7	103	4	78-137/18
156-59-2	cis-1,2-Dichloroethylene	1.5		25	26.8	101	25	26.6	100	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	29.8	119	25	28.7	115	4	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	25.4	102	25	24.8	99	2	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.5	98	25	24.4	98	0	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	26.6	106	25	26.2	105	2	80-120/22
100-41-4	Ethylbenzene	ND		25	26.1	104	25	25.1	100	4	81-121/14
591-78-6	2-Hexanone	ND		125	121	97	125	121	97	0	61-129/18
74-83-9	Methyl Bromide	ND		25	29.2	117	25	27.5	110	6	59-143/19
74-87-3	Methyl Chloride	ND		25	28.3	113	25	27.6	110	3	50-159/19
74-88-4	Methyl Iodide	ND		25	25.1	100	25	25.0	100	0	73-123/16
74-95-3	Methylene Bromide	ND		25	27.2	109	25	27.2	109	0	78-119/14
75-09-2	Methylene Chloride	ND		25	29.0	116	25	28.8	115	1	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	121	97	125	121	97	0	66-122/16
100-42-5	Styrene	ND		25	28.3	113	25	27.4	110	3	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	27.5	110	25	27.0	108	2	77-122/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA22497
Account: RENCM Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA22497-1MS	C0105146.D	1	03/06/15	EP	n/a	n/a	VC4201
FA22497-1MSD	C0105147.D	1	03/06/15	EP	n/a	n/a	VC4201
FA22497-1	C0105131.D	1	03/06/15	EP	n/a	n/a	VC4201

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

FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8, FA22497-9

CAS No.	Compound	FA22497-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	24.5	98	25	23.8	95	3	72-120/14
127-18-4	Tetrachloroethylene	ND		25	24.6	98	25	23.4	94	5	76-135/16
109-99-9	Tetrahydrofuran	ND		25	27.9	112	25	27.6	110	1	56-122/21
108-88-3	Toluene	ND		25	25.0	100	25	24.5	98	2	80-120/14
71-55-6	1,1,1-Trichloroethane	ND		25	26.1	104	25	25.0	100	4	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	24.2	97	25	24.4	98	1	76-119/14
79-01-6	Trichloroethylene	ND		25	25.6	102	25	25.4	102	1	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	31.0	124	25	29.4	118	5	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		25	24.6	98	25	24.5	98	0	77-120/16
108-05-4	Vinyl Acetate	ND		125	81.1	65	125	81.3	65	0	43-154/14
75-01-4	Vinyl Chloride	ND		25	27.5	110	25	26.4	106	4	69-159/18
1330-20-7	Xylene (total)	ND		75	84.7	113	75	82.1	109	3	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA22497-1	Limits
1868-53-7	Dibromofluoromethane	101%	100%	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	100%	110%	79-125%
2037-26-5	Toluene-D8	100%	99%	96%	85-112%
460-00-4	4-Bromofluorobenzene	101%	101%	98%	83-118%

* = Outside of Control Limits.

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: FA22497
Account: RENCM - Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP28616
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/04/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1	1.7	<6.0
Arsenic	10	1.3	1.3	-1.6	<10
Barium	200	1	1	-0.20	<200
Beryllium	4.0	.2	.2	-0.20	<4.0
Cadmium	5.0	.2	.2	-0.10	<5.0
Calcium	1000	50	50		
Chromium	10	1	1	0.0	<10
Cobalt	50	.2	.2	-0.10	<50
Copper	25	1	1	0.50	<25
Iron	300	17	17		
Lead	5.0	1	1.1	-0.80	<5.0
Magnesium	5000	35	35		
Manganese	15	.5	1		
Molybdenum	50	.3	.3		
Nickel	40	.4	.4	-0.20	<40
Potassium	10000	200	200		
Selenium	10	2.4	2.9	-0.20	<10
Silver	10	.7	.7	0.10	<10
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.1	1.4		
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6	-0.10	<50
Zinc	20	3	4.4	29.3	* (a)

Associated samples MP28616: FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Positive bias, but all sample results <DL.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA22497
Account: RENCM - Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP28616
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/04/15 03/04/15

Metal	FA22452-8 Original	DUP	RPD	QC Limits	FA22452-8 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	0.0	1.2	200.0(a)	0-20	0.0	523	500	104.6	80-120
Arsenic	27.2	27.5	1.1	0-20	27.2	2160	2000	106.6	80-120
Barium	226	227	0.4	0-20	226	2330	2000	105.2	80-120
Beryllium	0.0	0.0	NC	0-20	0.0	51.7	50	103.4	80-120
Cadmium	0.0	0.0	NC	0-20	0.0	50.3	50	100.6	80-120
Calcium	anr								
Chromium	8.1	7.9	2.5	0-20	8.1	209	200	100.5	80-120
Cobalt	1.6	1.4	13.3	0-20	1.6	510	500	101.7	80-120
Copper	6.0	6.1	1.7	0-20	6.0	268	250	104.8	80-120
Iron									
Lead	0.0	1.5	200.0(a)	0-20	0.0	503	500	100.6	80-120
Magnesium	anr								
Manganese									
Molybdenum									
Nickel	5.9	5.8	1.7	0-20	5.9	531	500	105.0	80-120
Potassium	anr								
Selenium	0.0	0.0	NC	0-20	0.0	2080	2000	104.0	80-120
Silver	0.0	0.0	NC	0-20	0.0	50.8	50	101.6	80-120
Sodium	anr								
Strontium									
Thallium									
Tin									
Titanium									
Vanadium	12.5	12.2	2.4	0-20	12.5	508	500	99.1	80-120
Zinc	30.1	28.8	4.4	0-20	30.1	534	500	100.8	80-120

Associated samples MP28616: FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8

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: FA22497
Account: RENCM - Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP28616 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/04/15

Metal	FA22452-8 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	522	500	104.4	0.2	20
Arsenic	27.2	2150	2000	106.1	0.5	20
Barium	226	2320	2000	104.7	0.4	20
Beryllium	0.0	51.5	50	103.0	0.4	20
Cadmium	0.0	50.2	50	100.4	0.2	20
Calcium	anr					
Chromium	8.1	210	200	101.0	0.5	20
Cobalt	1.6	509	500	101.5	0.2	20
Copper	6.0	268	250	104.8	0.0	20
Iron						
Lead	0.0	500	500	100.0	0.6	20
Magnesium	anr					
Manganese						
Molybdenum						
Nickel	5.9	528	500	104.4	0.6	20
Potassium	anr					
Selenium	0.0	2070	2000	103.5	0.5	20
Silver	0.0	50.3	50	100.6	1.0	20
Sodium	anr					
Strontium						
Thallium						
Tin						
Titanium						
Vanadium	12.5	509	500	99.3	0.2	20
Zinc	30.1	530	500	100.0	0.8	20

Associated samples MP28616: FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8

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: FA22497
Account: RENCM - Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP28616
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/04/15

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	524	500	104.8	80-120
Arsenic	2120	2000	106.0	80-120
Barium	2120	2000	106.0	80-120
Beryllium	52.0	50	104.0	80-120
Cadmium	51.2	50	102.4	80-120
Calcium	anr			
Chromium	205	200	102.5	80-120
Cobalt	517	500	103.4	80-120
Copper	262	250	104.8	80-120
Iron				
Lead	504	500	100.8	80-120
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	536	500	107.2	80-120
Potassium	anr			
Selenium	2080	2000	104.0	80-120
Silver	50.6	50	101.2	80-120
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	502	500	100.4	80-120
Zinc	520	500	104.0	80-120

Associated samples MP28616: FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA22497
Account: RENCM - Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP28616
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/04/15

Metal	FA22452-8 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	27.2	21.9	19.5 (a)	0-10
Barium	226	216	4.5	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Chromium	8.10	8.20	1.2	0-10
Cobalt	1.60	0.00	100.0(a)	0-10
Copper	6.00	7.40	23.3 (a)	0-10
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	5.90	3.80	35.6 (a)	0-10
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	12.5	10.7	14.4 (a)	0-10
Zinc	30.1	28.6	5.0	0-10

Associated samples MP28616: FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8

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: FA22497
Account: RENCM - Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP28616
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/04/15

Metal	Sample ml	Final ml	FA22452-8 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10			107.8	0.2	5	100	107.8	80-120
Arsenic	9.8	10	27.2	26.656	138	0.2	5	100	111.3	80-120
Barium	9.8	10	226.3	221.774	489.7	0.2	12.5	250	105.0	80-120
Beryllium	9.8	10			52.2	0.2	2.5	50	104.4	80-120
Cadmium	9.8	10			52	0.2	2.5	50	104.0	80-120
Calcium										
Chromium	9.8	10	8.1	7.938	59.6	0.2	2.5	50	103.3	80-120
Cobalt	9.8	10	1.6	1.568	53.4	0.2	2.5	50	103.7	80-120
Copper	9.8	10	6	5.88	111.4	0.2	5	100	105.5	80-120
Iron										
Lead	9.8	10			51.5	0.2	2.5	50	103.0	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel	9.8	10	5.9	5.782	113.8	0.2	5	100	108.0	80-120
Potassium										
Selenium	9.8	10			101.2	0.2	5	100	101.2	80-120
Silver	9.8	10			49.4	0.2	2.5	50	98.8	80-120
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium	9.8	10	12.5	12.25	63.8	0.2	2.5	50	103.1	80-120
Zinc	9.8	10	30.1	29.498	289.9	0.2	12.5	250	104.2	80-120

Associated samples MP28616: FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA22497
Account: RENCM - Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP28626
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/06/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1		
Arsenic	10	1.3	1.3		
Barium	200	1	1		
Beryllium	4.0	.2	.2		
Cadmium	5.0	.2	.2		
Calcium	1000	50	50		
Chromium	10	1	1		
Cobalt	50	.2	.2		
Copper	25	1	1		
Iron	300	17	17		
Lead	5.0	1	1.1		
Magnesium	5000	35	35		
Manganese	15	.5	1		
Molybdenum	50	.3	.3		
Nickel	40	.4	.4		
Potassium	10000	200	200		
Selenium	10	2.4	2.9		
Silver	10	.7	.7		
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.1	1.4		
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4	0.0	<20

Associated samples MP28626: FA22497-1, FA22497-2

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: FA22497
Account: RENCM - Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP28626 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date:			03/06/15					03/06/15	
Metal	FA22550-1 Original	DUP	RPD	QC Limits	FA22550-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	anr								
Lead	anr								
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	19.6	17.4	11.9	0-20	19.6	540	500	104.1	80-120

Associated samples MP28626: FA22497-1, FA22497-2

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: FA22497
Account: RENCM - Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP28626 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/06/15

Metal	FA22550-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron	anr					
Lead	anr					
Magnesium						
Manganese	anr					
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	19.6	546	500	105.3	1.1	20

Associated samples MP28626: FA22497-1, FA22497-2

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: FA22497
Account: RENCM - Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP28626
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/06/15

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	anr			
Lead	anr			
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	532	500	106.4	80-120

Associated samples MP28626: FA22497-1, FA22497-2

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA22497
Account: RENCM - Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP28626 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/06/15

Metal	FA22550-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron	anr			
Lead	anr			
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	19.6	16.2	17.3 (a)	0-10

Associated samples MP28626: FA22497-1, FA22497-2

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: FA22497
Account: RENCM - Resolve Environmental
Project: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP28626
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/06/15

Metal	Sample ml	Final ml	FA22550-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	19.6	19.208	289.7	0.2	12.5	250	108.2	80-120

Associated samples MP28626: FA22497-1, FA22497-2

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

CHAIN OF CUSTODY

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

FED-EX Tracking # 6127 2752 1935
Bottle Order Control #
Accutest Quote #
Accutest Job # FA22497

Client / Reporting Information

Company Name: Accutest Laboratories
Street Address: 4405 Vineland Rd, Suite C-15
City: Orlando State: FL Zip: 32811
Project Contact: munam E-mail: munam@accutest.com
Phone #: 407-425-6700 Fax #:
Sampler(s) Name(s): WB Phone:

Project Information

Project Name: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC
Street
City State
Project #
Client Purchase Order #
Project Manager

Billing Information (if different from Report to)

Company Name
Street Address
City State Zip
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	TLMS 6020	LAB USE ONLY
1	MW-1A		2/27/15	11:53:00 AM	WB	AQ	1			1						X	FL
2	MW-2		2/27/15	11:05:00 AM	WB	AQ	1			1						X	
3	MW-3		2/27/15	10:30:00 AM	WB	AQ	1			1						X	
4	MW-4		2/27/15	9:46:00 AM	WB	AQ	1			1						X	
5	SW-1		2/27/15	11:14:00 AM	WB	AQ	1			1						X	
6	SW-2		2/27/15	10:40:00 AM	WB	AQ	1			1						X	
7	SW-3		2/27/15	9:55:00 AM	WB	AQ	1			1						X	
8	EQUIPMENT BLANK		2/27/15	11:38:00 AM	WB	AQ	1			1						X	

Turnaround Time (Business days)

- [ ] 10 Day (business)
- [ ] 5-7 Day
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [x] other 7

Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1, Results Only)
- [ ] Commercial "B" (Level 2, Results + QC summary)
- [ ] REDT1 (Level 3)
- [ ] FULT1 (Level 4)
- [ ] DOD FULT1 (Level 4)
- [x] Other COMMB
- [ ] EDD Format

Comments / Special Instructions

ALNJ

INITIAL ASESSMENT BF 3/3

LABEL VERIFICATION

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	03-05-15 1700	1 FY	2 EY	3-9-15 930	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # CLIENT SEAL	[x] Intact [ ] Not intact	Preserved where applicable [ ]

On Ice [x] Cooler Temp. 3.0 C

7.1

7

FA22497: Chain of Custody
Page 1 of 2
Accutest New Jersey

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: FA22497 **Client:** **Project:**

Date / Time Received: 3/9/2015 9:30:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3/2.7); 0

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

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservatio	Y	or 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	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

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

Sample Integrity - Instructions	Y	or 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

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FA22497: 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: FA22497
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: RENCM: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP85201
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 03/10/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	1.1	3.2		
Antimony	1.0	.096	.12		
Arsenic	1.0	.084	.23		
Barium	2.0	.024	.2		
Beryllium	1.0	.011	.026		
Boron	50	1.3	1.3		
Cadmium	1.0	.027	.22		
Calcium	500	7	8.5		
Chromium	2.0	.037	.3		
Cobalt	1.0	.0088	.038		
Copper	4.0	.071	.22		
Iron	50	1.5	6.3		
Lead	1.0	.011	.027		
Magnesium	500	1.2	.73		
Manganese	2.0	.032	.11		
Molybdenum	2.0	.1	.17		
Nickel	2.0	.04	.062		
Potassium	500	6.5	6.7		
Selenium	1.0	.047	.087		
Silver	1.0	.015	.1		
Sodium	500	5.2	4.9		
Strontium	10	.012	.028		
Thallium	1.0	.039	.17	0.027	<1.0
Tin	10	.092	.25		
Titanium	2.0	.1	.84		
Vanadium	2.0	.29	.23		
Zinc	10	.15	.93		

Associated samples MP85201: FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8

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: FA22497
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: RENCM: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP85201 Methods: SW846 6020A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/10/15

Metal	FA22497-6 Original MS		Spikelot MPSPK	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium	0.46	4280	4000	107.0	75-125
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP85201: FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8

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: FA22497
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: RENCM: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP85201
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 03/10/15

Metal	FA22497-6 Original	MSD	Spikelot MPSPK	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium	0.46	4200	4000	105.0	1.9	20
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP85201: FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8

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: FA22497
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: RENCM: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP85201
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 03/10/15

Metal	BSP Result	Spikelot MPSPK	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium	2090	2000	104.5	80-120
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP85201: FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA22497
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: RENCM: Warren County Landfill; 559 Baltimore Rd, Warrenton, NC

QC Batch ID: MP85201 | Methods: SW846 6020A
Matrix Type: AQUEOUS | Units: ug/l

Prep Date: 03/10/15

Metal	FA22497-6 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium	0.229	0.424	85.4 (a)	0-10
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP85201: FA22497-1, FA22497-2, FA22497-3, FA22497-4, FA22497-5, FA22497-6, FA22497-7, FA22497-8

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).

APPENDIX B
Environmental Monitoring NCDENR Report Form

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

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	February 27, 2015

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

Affix NC Licensed/ Professional Geologist Seal

Signature — Date

NORTH CAROLINA LICENSED SEAL 1435 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