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American Water Works Association

The Solid Waste Association of North America

West Virginia Manufacturers Association

Association of West Virginia Solid Waste Authorities

West Virginia Oil Marketers & Grocers Association

December 22, 2011

Mr. Rodney Hamby
Catawba County
P.O. Box 389
Newton, NC 28658

RE: Blackburn Landfill, Permit #18-03
Newton Landfill, Permit #18-01
2nd Semiannual 2011 Groundwater Monitoring Reports

Mr. Hamby;

Please find enclosed the 2nd Semiannual 2011 Groundwater Monitoring Reports for Blackburn Landfill and Newton Landfill. Included are one (1) hard copy and two (2) electronic copies of each report. Electronic copies of these reports will be submitted to NCDENR.

Should you have any questions, or if you need additional information, please feel free to contact me at (800) 999-0105.

Sincerely,

Michael Hofe, PE
REI Consultants, Inc.

cc: Jeff Bishop, McGill
Compliance Unit – NCDENR DWM-SWS

Enclosures

REIC

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West Virginia Oil Marketers & Grocers Association

In preparing this report, the professional services of REI Consultants, Inc. have been performed, findings obtained, and conclusions reached in accordance with present State and Federal regulations, and generally accepted review principles and practices. Questions regarding any of the information presented in this report should be directed to REIC headquarters at (304) 255-2500.

Respectfully submitted,

NORTH CAROLINA PROFESSIONAL SEAL 028029 12-20-11 ENGINEER MICHAEL P. HOFE

12/20/11

Michael P. Hofe, P.E. (NC #28029)
Manager
Environmental Monitoring & Investigative Assessment Department

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2nd Semi-Annual 2011 Groundwater Monitoring Report

Catawba County, North Carolina

Newton Landfill

Permit: #18-01

December 2011

EXECUTIVE SUMMARY

REI Consultants, Inc., (REIC) has performed the 2nd Semi-Annual 2011 Monitoring Program for the closed ***Newton Landfill*** operated by Catawba County, North Carolina. The procedural aspects of this monitoring program were determined after a review of historical records, site specific geology, consultations with the North Carolina Department of the Environment and Natural Resources (NCDENR) regulations, orders as formulated from ***15A NCAC 13B***, and communications from North Carolina agency officials. During those communications it was determined that Monitoring Wells MW-1, MW-3, MW-9, MW-10A, MW-10B, MW-11, MW-13, MW-14, MW-14A, MW-15, MW-16, MW-16A, MW-20, MW-21, MW-23, MW-24, MW-24D, OW-1, and OW-3 were to be evaluated twice a year for particular constituents and reported in semi-annual reports relative to North Carolina groundwater standards. In addition, wells MW-7A and MW-18 are to be sampled every 18 months. NCDENR issued a letter to Catawba County dated June 3, 2004 with approval of the above monitoring network.

In September 2011, groundwater samples were obtained by REIC's environmental field technicians, utilizing the protocols established by NCDENR. Summaries of the field sampling activities are enclosed in ***Appendix C*** of this report. No anomalies were experienced during this sampling with the exception of significant levels of suspended solids (***see Appendix B: "Summary of Dissolved Metals and TSS Analyses"***) contained in several groundwater samples.

As with previous monitoring events, water levels were recorded from all monitoring wells during the 2nd Semi-Annual Sampling Event of 2011, as well as any existing monitoring points within the ***Newton Landfill*** boundaries. This information was utilized to generate groundwater potentiometric maps for the Newton Facility. The potentiometric contour maps are included in ***Appendix H***, and a summary of the static water level data is included as ***"A Summary of Static Water Levels and %LEL"***, found in ***Appendix F***. An additional map indicating topographic contours and all wells at the facility is included in ***Appendix G***. The groundwater hydraulic gradients and velocities estimated from the current study are of the same magnitudes as in previous investigations.

2nd Semi-Annual 2011 Groundwater Monitoring Report

Results from the 2nd Semi-Annual 2011 Sampling Event were compared to North Carolina groundwater standards. Components determined to be above North Carolina groundwater standards are as follows:

Component/Parameter	Monitoring Point
1,1-Dichloroethane	MW-1, MW-3, MW-9, MW-10A, MW-10B, MW-11, MW-13, MW-14, MW-15, MW-16, MW-16A, MW-20, OW-1
1,2-Dichloroethane	MW-9, MW-10A, MW-11, MW-14, MW-14A
1,2-Dichloropropane	MW-1, MW-9, MW-10A, MW-11, MW-14, MW-15, MW-20
1,4-Dichlorobenzene	MW-9, MW-10A, MW-14
Acetone	MW-1
Benzene	MW-1, MW-3, MW-9, MW-10A, MW-14, MW-15, MW-16, MW-20, OW-1
2-Butanone	MW-1
Chromium	MW-10A
cis-1,2-Dichloroethene	MW-9, MW-14, MW-15, MW-20
Methylene chloride	MW-1, MW-9, MW-15, MW-20
Nickel	MW-9
Tetrachloroethene	MW-3, MW-10A, MW-11, MW-13, MW-14, MW-14A, MW-15, MW-16, MW-16A, MW-20, OW-1
Trichloroethene	MW-3, MW-10B, MW-13, MW-14, MW-14A, MW-15, MW-16, MW-20, OW-1
Vinyl chloride	MW-1, MW-9, MW-10A, MW-10B, MW-13, MW-14, MW-15, MW-16, MW-16A, OW-1

These findings are summarized specifically in ***Appendix A*** as ***"2nd Semi-Annual 2011 Summary of Detections"***.

Based upon the results of the current groundwater monitoring event, and pursuant to NCDENR policy and directives, it is recommended that the ***Newton Landfill*** continue monitoring the modified Appendix I listing, which includes Appendix I Volatiles and Chromium, Lead, and Nickel, during the 1st Semi-Annual Sampling Event of 2012.

INTRODUCTION

In July of 1998, REIC was contracted by Catawba County Solid Waste Authority to conduct a complete groundwater monitoring program for the closed landfill denoted as the "***Newton Landfill***", and registered with the NCDENR as Permit #18-01. REIC met with Mr. Larry Rose and Mr. Mark Poindexter of the NCDENR in August 1998, then again with Mr. Poindexter in March 1999, and discussed the requirements of the permit and subsequent Agency directives that have occurred during the past several years. Additionally, REIC reviewed records both from Catawba County's internal files and those stored at the NCDENR's Department of Records Facility in Raleigh, North Carolina. From these historical files REIC collated and generated a historical summary of the collected data for the monitoring points selected for monitoring consideration. Following the 2nd Semi-Annual Monitoring Event of 1998, monitoring wells MW-18, MW-19, MW-20, MW-21 and MW-22 were installed. In addition, after the 1st semi-annual 2004 event, monitoring wells MW-23, MW-24, and MW-24D were added to the program. All data from the approved monitoring network are incorporated within this report and represent what is believed to be a comprehensive collection of the groundwater quality profile for the Newton Facility.

Continuing the program in September 2011, REIC collected groundwater samples from 20 monitoring wells and two surface water sites located at the facility. The sampling was conducted to satisfy compliance with the groundwater monitoring program for the 2nd Semi-Annual 2011 Monitoring Event.

Additionally, the groundwater potentiometric surface has been modeled and is presented in the form of a static groundwater level contour map. This map identifies the general subsurface water movement and assists in determining potential, as well as identifiable, contaminant movement. As agreed, groundwater constituent levels (relative to North Carolina groundwater standards), the potentiometric surface, and groundwater flow rates are presented in this report.

INVESTIGATION

The groundwater and surface water monitoring points were sampled in accordance with State and Federal guidelines. Static water levels were measured prior to and during well purging to ascertain groundwater elevations and generate data to produce

a valid potentiometric map. The monitoring wells were purged using laboratory decontaminated Teflon™ bailers before sampling, and field analytical testing was employed to assure adequate purging. Copies of the field sampling report and summaries of these logs are in ***Appendix C***. Groundwater samples were taken as specified in REIC's Standard Operating Procedures (SOPs) that satisfy NCDENR Solid Waste regulations and guidance.

Groundwater samples were stored in pre-cleaned, preserved containers, transported in iced coolers, and delivered to the laboratory in good condition by REIC field personnel. The samples were analyzed in the laboratory referencing current EPA and NCDENR approved methodologies.

Methane measurements, as percent Lower Explosion Limit (% LEL), were recorded at each monitoring well prior to purging. Initial readings were taken at the top of casing as soon as the well caps (where installed) were removed. A second measurement was obtained after sufficient time had elapsed to allow for the equalization of any pressure differential between the well casing and the ambient surface. The methane measurements are documented in ***Appendix F: "Summary of All Static Water Levels and %LEL".***

The groundwater data are presented within this report relative to North Carolina groundwater quality standards. Per instructions of NCDENR Solid Waste Section representatives, the data have not been processed in a statistical manner to distinguish significant down-gradient elevations of constituents. However, constituents exceeding North Carolina groundwater quality standards are noted in the ***"2nd Semi-Annual 2011 Summary of Detections"*** in Appendix A.

The laboratory Quality Assurance Program included all appropriate, method specific Quality Controls. All laboratory data met the required QC criteria and were subjected to stringent REIC acceptance review prior to approval for inclusion in this report. Data have been reported to method detection limits (MDLs) as requested by NCDENR. However, note that any values reported below Solid Waste Section Limits (SWSLs), flagged with a "J" qualifier, are only estimates, are not quantitative, and should not be used numerically in any way.

INVESTIGATION RESULTS

A. HYDROLOGICAL POTENTIOMETRIC SUMMARY

Models of two potentiometric surfaces have been prepared from the field data collected during the 2nd Semi-Annual 2011 Groundwater Sampling Event. One model has been created to depict the upper-most or Shallow Aquifer and another has been produced to portray a deeper or Bedrock Aquifer.

Both models were developed from groundwater elevation data calculated from the static water levels measured during the Fall 2011 Sampling Event. The groundwater depth measurements were obtained in the monitoring wells by REIC field personnel, prior to the execution of the purging and sampling procedures. Horizontal and vertical control for the field data was established from mapping based on North Carolina State Plane coordinates, as provided by J. Mike Honeycutt Surveying.

The potentiometric maps for each aquifer include the waste disposal area boundaries and streams. These features were transcribed from drawings provided by McGill Associates, P.A. An additional map that includes all wells at the facility as well as topographic contours is included in Appendix G: "***Sampling Locations and Topographic Contours***". Topographic contours were also provided by drawings from McGill Associates, P.A.

The Shallow Aquifer is the upper-most water-bearing zone of the Newton Landfill site. While some of the geologic material of the zone may be eluvial in origin, the lithology is essentially unconsolidated sediment of silt and sand sizes. It has been determined that 20 wells have screens set in this zone, although actual drill logs are not available for confirmation for a few of the wells at the site. The potentiometric map for this aquifer was modeled utilizing static water levels from wells screened in the upper-most aquifer, as well as from stream elevation points and topographic contours. A copy of this drawing is included in ***Appendix H: "Potentiometric Contour Maps"***.

The Bedrock Aquifer is the deeper groundwater zone monitored at the landfill site. The lithology of this aquifer has typically been described as weathered, biotite gneiss. While

the Shallow and Bedrock Aquifers were analyzed separately and are shown on two different potentiometric drawings, no continuous aquitard can be distinguished between the two zones in the drilling information. Groundwater elevations from 16 deeper-screened wells were utilized to create the Bedrock Aquifer model. No stream water elevations were included in this analysis. The databases for the Shallow and Bedrock Aquifers contained separate measurement points. The wells in the deeper database were shown by drill logs to have screens set in the bedrock or are of a sufficient depth to logically be screened in the referenced zone. All of the deep wells identified in the available drill logs have screens that are set fully in the weathered rock except for two partially penetrating wells that have screens with tops exposed to sediment. A copy of the resulting potentiometric map is contained in ***Appendix H: "Potentiometric Contour Maps"***.

The horizontal component of hydraulic gradient has been estimated graphically for the Shallow and Bedrock Aquifers. In each case, flow paths were chosen which traverse the central portions of the main waste disposal area of the ***Newton Landfill***. The paths were drawn on the respective potentiometric maps, following traces that are approximately normal to the hydrostatic contours, from the up-gradient western portion of the waste area to the locale of the stream along the eastern border. Other flow routes could have been chosen with varying results for the measured hydraulic gradient. The flow paths utilized in the calculation of the hydraulic gradients for the two aquifers are illustrated on drawings included in ***Appendix H: "Potentiometric Contour Maps."***

Vertical gradient calculations have been prepared for seven sets of clustered wells at the Newton Facility. These calculations generally indicate discharge conditions in the vicinity of the streams and recharge in upland areas of the site. A copy of the vertical gradient analysis is included in ***Appendix I***.

Lateral groundwater flow velocities have been estimated for the two aquifers using a form of Darcy's Law, as follows:

Shallow Aquifer:

$$V = \frac{KI}{n} = \frac{53\ ft}{yr}$$

where:

V = Groundwater Seepage Velocity in ft/yr.
K = Average Hydraulic Conductivity = 2.8×10^{-4} cm/sec
(Averaged from data previously provided by others).
I = Hydraulic Gradient = 0.037 ft/ft.
Following a path normal to the groundwater potentiometric contours across the main waste disposal area.
n = Effective Porosity = 0.20 (unitless).
(Typical textbook value).

Bedrock Aquifer:

$$V = \frac{KI}{n} = \frac{930\ ft}{yr}$$

where:

V = Groundwater Seepage Velocity in ft/yr.
K = Average Hydraulic Conductivity = 2.5×10^{-3} cm/ sec.
(Averaged from data previously provided by others).
I = Hydraulic Gradient = 0.036 ft/ft.
Following a path normal to the groundwater potentiometric contours across the main waste disposal area.
n = Effective Porosity = 0.10 (unitless).
(Typical textbook value).

B. ANALYTICAL SUMMARY

Analytical parameters which were detected above SWSLs are summarized in ***Appendix A "2nd Semi-Annual 2011 Summary of Detections"***, which is included on the following pages. Values greater than the North Carolina groundwater standards are shown in red print.

All available analytical results of previous sampling events are included as a separate document under ***Appendix D: "Historical Data Summary".*** Components determined to be above North Carolina groundwater standards for the 2nd Semi-Annual 2011 groundwater sampling event are as follows:

Component/Parameter	Monitoring Point
1,1-Dichloroethane	MW-1, MW-3, MW-9, MW-10A, MW-10B, MW-11, MW-13, MW-14, MW-15, MW-16, MW-16A, MW-20, OW-1
1,2-Dichloroethane	MW-9, MW-10A, MW-11, MW-14, MW-14A
1,2-Dichloropropane	MW-1, MW-9, MW-10A, MW-11, MW-14, MW-15, MW-20
1,4-Dichlorobenzene	MW-9, MW-10A, MW-14
Acetone	MW-1
Benzene	MW-1, MW-3, MW-9, MW-10A, MW-14, MW-15, MW-16, MW-20, OW-1
2-Butanone	MW-1
Chromium	MW-10A
cis-1,2-Dichloroethene	MW-9, MW-14, MW-15, MW-20
Methylene chloride	MW-1, MW-9, MW-15, MW-20
Nickel	MW-9
Tetrachloroethene	MW-3, MW-10A, MW-11, MW-13, MW-14, MW-14A, MW-15, MW-16, MW-16A, MW-20, OW-1
Trichloroethene	MW-3, MW-10B, MW-13, MW-14, MW-14A, MW-15, MW-16, MW-20, OW-1
Vinyl chloride	MW-1, MW-9, MW-10A, MW-10B, MW-13, MW-14, MW-15, MW-16, MW-16A, OW-1

These findings are summarized specifically in ***Appendix A*** as ***"2nd Semi-Annual 2011 Summary of Detections".***

GENERAL CONCLUSIONS AND RECOMMENDATIONS

Based upon the results of the current groundwater monitoring event, and pursuant to NCDENR policy and directives, it is recommended that the ***Newton Landfill*** continue in its current monitoring mode, with analysis of the modified Appendix I list, during the 1st Semi-Annual Sampling Event of 2012.

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix A:

2nd Semi-Annual 2011 Summary of Detections

The following summary is a complete listing of concentrations detected above NCDENR Solid Waste Section Limits (SWSLs) during the 2nd Semi-Annual Monitoring Event of 2011. Concentrations detected at levels above established North Carolina groundwater standards (as denoted in bold print) are highlighted in red. Monitoring wells having specimens containing less than SWSL quantities of respective analytes are noted as blank entries.

SUMMARY OF DETECTIONS BY MONITORING WELL (MW)

Newton Landfill

Permit: #18-01

REIC Job #: 1109S44

Sample Date: 09-2011

Parameter	GW Std.[1]	SWSL[2]	MW-1	MW-3	MW-7A	MW-9	MW-10A	MW-10B	MW-11	MW-13	MW-14	MW-14A	MW-15	MW-16	MW-16A	MW-18	MW-20	MW-21
1,1,2-Trichloroethane	0.0006	0.001																
1,1,1-Trichloroethane	0.2	0.001															0.0031	
1,1-Dichloroethane	0.006	0.005	0.227	0.0504		0.434	0.177	0.0326	0.0115	0.0387	0.242		0.434	0.114	0.0356		0.587	
1,1-Dichloroethene	0.007	0.005															0.0064	
1,2-Dichlorobenzene	0.02	0.005																
1,2-Dichloroethane	0.00002	0.001				0.0691	0.0087		0.0074		0.0051	0.0012						
1,2-Dichloropropane	0.0006	0.001	0.0061			0.0289	0.0225		0.0010		0.0039		0.0013				0.0085	
1,4-Dichlorobenzene	0.006	0.001	0.0018			0.0095	0.0078	0.0016			0.0248	0.0050	0.0057	0.0017			0.0039	
2-Butanone (Methyl ethyl ketone)	4	0.100	13.5	0.0587														
2-Hexanone	NL	0.050	0.172															
4-Methyl-2-pentanone	NL	0.100	1.23															
Acetone	6	0.100	12.3	0.0999														
Benzene	0.001	0.001	0.0146	0.0020		0.0154	0.0067				0.0155		0.0152	0.0024			0.0184	
Bromochloromethane	0.0006	0.003																
Chlorobenzene	0.05	0.003									0.0088		0.0048					
Chloroethane	3	0.010	0.168								0.0145			0.0101				
Chloroform	0.07	0.005																
cis-1,2-Dichloroethene	0.07	0.005				0.175	0.0061	0.0135		0.0366	0.250		0.464	0.0178	0.0383		1.40	
Dibromochloromethane	0.0004	0.003																
Ethylbenzene	0.6	0.001	0.0246			0.0065					0.0167							
Methylene chloride	0.005	0.001	0.0206			0.0069		0.0014			0.0023		0.0824				0.0530	
Tetrachloroethene	0.0007	0.001		0.0033			0.0013		0.0021	0.0023	0.0040	0.0203	0.0068	0.0013	0.0017		0.0661	
Toluene	0.6	0.001	0.195			0.0313					0.0043							
trans-1,2-Dichloroethene	0.1	0.005				0.0088					0.0059		0.0106				0.0059	
Trichloroethene	0.003	0.001		0.0048		0.0020		0.0054	0.0014	0.0214	0.0341	0.0066	0.110	0.0202			0.900	
Trichlorofluoromethane	2	0.001	0.0041	0.0016		0.0024	0.0019		0.0196	0.0126	0.0031	0.0017	0.0165	0.0105	0.0152		0.0174	
Vinyl chloride	0.00003	0.001	0.0171			0.0823	0.0078	0.0044		0.0054	0.0386		0.0102	0.0107	0.0047			
Xylenes	0.5	0.005	0.0399	0.0125		0.0493					0.210		0.0472				0.0172	
Chromium	0.01	0.010					0.0160											
Lead	0.015	0.010																
Nickel	0.1	0.050	0.0506			0.195												
Total Suspended Solids (TSS)		1	144	30	22	54	249	8	54	8	62	27	112	86	3	<1	1	3

FOOTNOTES:

[1]GW Std. - North Carolina Groundwater Standard

[2]SWSL - Solid Waste Section Limit (mg/L)

SPECIAL NOTES:

- All concentrations detected above the GW Std. are highlighed in RED TEXT

- All data reported in mg/L.

- Trip Blank results for all volatile analytes were ND (Not Detected) at the SWSL

SUMMARY OF DETECTIONS BY MONITORING WELL (MW)

Newton Landfill

Permit: #18-01

REIC Job #: 1109S44

Sample Date: 09-2011

Parameter	GW Std.[1]	SWSL[2]	MW-23	MW-24	MW-24D	OW-1	OW-3	CR-1	SW-2
1,1,2-Trichloroethane	0.0006	0.001					NS		
1,1,1-Trichloroethane	0.2	0.001					NS		
1,1-Dichloroethane	0.006	0.005				0.0531	NS		
1,1-Dichloroethene	0.007	0.005					NS		
1,2-Dichlorobenzene	0.02	0.005					NS		
1,2-Dichloroethane	0.00002	0.001					NS		
1,2-Dichloropropane	0.0006	0.001					NS		
1,4-Dichlorobenzene	0.006	0.001				0.0010	NS		
2-Butanone (Methyl ethyl ketone)	4	0.100					NS		
2-Hexanone	NL	0.050					NS		
4-Methyl-2-pentanone	NL	0.100					NS		
Acetone	6	0.100					NS		
Benzene	0.001	0.001				0.0053	NS		
Bromochloromethane	0.0006	0.003					NS		
Chlorobenzene	0.05	0.003					NS		
Chloroethane	3	0.010					NS		
Chloroform	0.07	0.005					NS		
cis-1,2-Dichloroethene	0.07	0.005				0.0435	NS		
Dibromochloromethane	0.0004	0.003					NS		
Ethylbenzene	0.6	0.001					NS		
Methylene chloride	0.005	0.001				0.0016	NS		
Tetrachloroethene	0.0007	0.001				0.0045	NS		
Toluene	0.6	0.001					NS		
trans-1,2-Dichloroethene	0.1	0.005					NS		
Trichloroethene	0.003	0.001				0.0093	NS		
Trichlorofluoromethane	2	0.001					NS		
Vinyl chloride	0.00003	0.001				0.0109	NS		
Xylenes	0.5	0.005				0.0100	NS		
Chromium	0.01	0.010					NS		
Lead	0.015	0.010					NS		
Nickel	0.1	0.050					NS		
Total Suspended Solids (TSS)		1	522	802	78	28	NS	3	1

FOOTNOTES:

[1]GW Std. - North Carolina Groundwater Standard

[2]SWSL - Solid Waste Section Limit (mg/L)

SPECIAL NOTES:

- All concentrations detected above the GW Std. are highlighed in RED TEXT

- All data reported in mg/L.

- Trip Blank results for all volatile analytes were ND (Not Detected) at the SWSL

- NS indicates no sample collected; well was dry

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix B:

Dissolved Metals and TSS Detections

The data for dissolved metals and Total Suspended Solids (TSS) are reported on a voluntary basis and is not required by North Carolina DENR regulations. The following summary is a complete listing of concentrations detected above NCDENR Solid Waste Section Limits (SWSLs) during the 2nd Semi-Annual Monitoring Event of 2011. Monitoring wells having specimens containing less than SWSL quantities of respective analytes are noted as blank entries.

Summary of Dissolved Metals and TSS Detections

Newton Landfill

Permit: #18-01

REIC Job Number: 1109S44
Sample Date: 9-2011

Summary of Detections by Monitoring Well (MW)													
Parameter	SWSL[1]	MW-1	MW-3	MW-7A	MW-9	MW-10A	MW-10B	MW-11	MW-13	MW-14	MW-14A	MW-15	MW-16
Chromium, Dissolved	0.010												
Lead, Dissolved	0.010												
Nickel, Dissolved	0.050				0.227								
Total Suspended Solids (TSS)	1	144	30	22	54	249	8	54	8	62	27	112	86

Summary of Detections by Monitoring Well (MW)												
Parameter	SWSL[1]	MW-16A	MW-18	MW-20	MW-21	MW-23	MW-24	MW-24D	OW-1	OW-3	CR-1	SW-2
Chromium, Dissolved	0.010											
Lead, Dissolved	0.010											
Nickel, Dissolved	0.050											
Total Suspended Solids (TSS)	1	3	<1	1	3	522	802	78	28	-	3	1

FOOTNOTES:

1. SWSL - Solid Waste Section Limit (mg/L)

2. Only results above SWSLs shown

SPECIAL NOTES:

All data reported in mg/L.

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix C:

Sampling / Field Log Summaries and Field Sample Logs

SAMPLING LOG SUMMARY

Newton Landfill (Permit: #18-01)

REIC Job #: 1109S44

Sampling Date: 9/26/2011 & 9/27/2011

Sampler(s): Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Cloudy 68 - 80°F

Property	**Units**	**MW-1**	**MW-3**	**MW-7A**	**MW-9**
Sampling Depth	**Feet**	18.62	31.80	58.91	36.09
Static Depth	**Feet**	13.85	29.90	15.77	36.09
Well Depth	**Feet**	29.60	40.40	78.38	45.63
Water Column Height	**Feet**	15.75	10.50	62.61	9.58
Volume Purged	**Liters**	28	10	110	0
Purging Status	**-**	Finished Purging	Purged Dry	Finished Purging	Sampled Only
Physical Property	**Units**	**MW-1**	**MW-3**	**MW-7A**	**MW-9**
pH	**SU**	6.45	5.73	6.30	5.58
Temperature	**°C**	17.4	18.8	16.7	18.7
Conductivity	**umhos/cm**	3180	175	79	1393
Turbidity	**NTU**	25.0	41.3	29.2	364
Appearance	**-**	Cloudy	Cloudy	Cloudy	Cloudy
Odor	**-**	Strong Odor	No Odor	No Odor	Slight Odor
Total Suspended Solids (TSS)	**mg/L**	144	30	22	54

Property	**Units**	**MW-10A**	**MW-10B**	**MW-11**	**MW-13**
Sampling Depth	**Feet**	32.20	33.02	20.45	19.50
Static Depth	**Feet**	35.54	33.02	16.92	17.90
Well Depth	**Feet**	49.02	87.78	36.12	78.70
Water Column Height	**Feet**	13.48	54.76	19.20	60.80
Volume Purged	**Liters**	25	0	35	100
Purging Status	**-**	Finished Purging	Sampled Only	Finished Purging	Finished Purging
Physical Property	**Units**	**MW-10A**	**MW-10B**	**MW-11**	**MW-13**
pH	**SU**	6.55	7.57	6.34	6.70
Temperature	**°C**	18.0	18.5	16.7	16.9
Conductivity	**umhos/cm**	1435	186	120	185
Turbidity	**NTU**	199	12.5	67.9	4.50
Appearance	**-**	Cloudy	Clear	Cloudy	Clear
Odor	**-**	No Odor	Slight Odor	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	249	8	54	8

SAMPLING LOG SUMMARY

Newton Landfill (Permit: #18-01)

REIC Job #: 1109S44

Sampling Date: 9/26/2011 & 9/27/2011

Sampler(s): Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Cloudy 68 - 80°F

Property	**Units**	**MW-14**	**MW-14A**	**MW-15**	**MW-16**
Sampling Depth	**Feet**	31.42	34.35	27.61	12.15
Static Depth	**Feet**	29.51	30.75	22.99	8.14
Well Depth	**Feet**	34.45	85.56	33.78	20.40
Water Column Height	**Feet**	4.94	54.81	10.79	12.26
Volume Purged	**Liters**	9	100	20	22
Purging Status	**-**	Finished Purging	Finished Purging	Finished Purging	Finished Purging
Physical Property	**Units**	**MW-14**	**MW-14A**	**MW-15**	**MW-16**
pH	**SU**	6.22	6.20	4.61	6.15
Temperature	**°C**	18.1	18.2	16.9	16.6
Conductivity	**umhos/cm**	683	59	42	432
Turbidity	**NTU**	27.1	20.7	109	58.0
Appearance	**-**	Cloudy	Clear	Cloudy	Clear
Odor	**-**	Slight Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	62	27	112	86

Property	**Units**	**MW-16A**	**MW-18**	**MW-20**	**MW-21**
Sampling Depth	**Feet**	60.40	18.00	32.35	20.14
Static Depth	**Feet**	5.19	16.20	32.38	20.14
Well Depth	**Feet**	81.70	83.31	84.80	69.80
Water Column Height	**Feet**	76.51	67.11	52.42	49.66
Volume Purged	**Liters**	133	117	32	0
Purging Status	**-**	Finished Purging	Finished Purging	Purged Dry	Sampled Only
Physical Property	**Units**	**MW-16A**	**MW-18**	**MW-20**	**MW-21**
pH	**SU**	7.43 / Dup 7.39	6.72 / Dup 6.71	5.30	10.23
Temperature	**°C**	17.3 / Dup 17.3	17.5 / Dup 17.3	17.7	18.8
Conductivity	**umhos/cm**	269 / Dup 270	66.2 / Dup 66.1	139	89
Turbidity	**NTU**	2.89 / Dup 3.02	1.72 / Dup 2.06	8.13	1.44
Appearance	**-**	Clear	Clear	Clear	Clear
Odor	**-**	No Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	**3**	**-**	**1**	**3**

SAMPLING LOG SUMMARY

Newton Landfill (Permit: #18-01)

REIC Job #: 1109S44

Sampling Date: 9/26/2011 & 9/27/2011

Sampler(s): Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Cloudy 68 - 80°F

Property	**Units**	**MW-23**	**MW-24**	**MW-24D**	**OW-1**
Sampling Depth	**Feet**	25.36	28.11	67.60	30.85
Static Depth	**Feet**	22.49	24.48	26.88	29.72
Well Depth	**Feet**	34.11	36.60	86.32	36.46
Water Column Height	**Feet**	11.62	12.12	59.44	6.74
Volume Purged	**Liters**	20	22	60	8
Purging Status	**-**	Finished Purging	Finished Purging	Purged Dry	Purged Dry
Physical Property	**Units**	**MW-23**	**MW-24**	**MW-24D**	**OW-1**
pH	**SU**	4.68 / Dup 4.65	5.17	6.15	5.12
Temperature	**°C**	18.7 / Dup 18.7	16.9	16.9	17.6
Conductivity	**umhos/cm**	20.7 / Dup 20.7	41	45	128
Turbidity	**NTU**	665 / Dup 667	>800	107	77.6
Appearance	**-**	Red	Red	Cloudy	Cloudy
Odor	**-**	No Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	**522**	**802**	**78**	**28**

Property	**Units**	**OW-3**	**CR-1**	**SW-2**
Sampling Depth	**Feet**	N/A	-	-
Static Depth	**Feet**	N/A	-	-
Well Depth	**Feet**	N/A	-	-
Water Column Height	**Feet**	N/A	-	-
Volume Purged	**Liters**	N/A	-	-
Purging Status	**-**	No Sample -Dry	-	-
Physical Property	**Units**	**OW-3**	**CR-1**	**SW-2**
pH	**SU**	No Sample	7.23	7.50
Temperature	**°C**	No Sample	19.6	19.7
Conductivity	**umhos/cm**	No Sample	187.7	249.0
Turbidity	**NTU**	No Sample	1.71	3.68
Appearance	**-**	No Sample	Clear	Clear
Odor	**-**	No Sample	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	**-**	**3**	**1**

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-1

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 13:46 | Weather Conditions: Cloudy 82 °F

Static Depth (Depth to Water)	13.85	(Ft)	Volume	9.11 (Liters)
Well Depth	29.60	(Ft)	3 Volumes	27.35 (Liters)
Water Column Height	15.75	(Ft)	Volume Purged	28.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
13:48	6.65	2,330.0	19.0	15.1	1
13:50	6.61	2,510.0	17.0	66.0	6
13:52	6.54	2,730.0	16.7	39.5	12
13:54	6.57	2,730.0	16.9	56.7	18
13:56	6.56	2,810.0	16.7	52.1	24
13:58		Finished Purging			28

SAMPLING DATA

Date: 9/26/2011 | Time: 14:05

Method: Teflon Bailer | Sampling Depth: 18.62'

pH: 6.45 ***(SU)*** | Conductivity: 3180 ***(umhos/cm)***

Temperature: 17.4 ***(^{o} C)*** | Turbidity: 25 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: Strong Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-3

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 07:47 | Weather Conditions: Cloudy 68 °F

Static Depth (Depth to Water)	29.90	(Ft)	Volume	6.07 (Liters)
Well Depth	40.40	(Ft)	3 Volumes	18.23 (Liters)
Water Column Height	10.50	(Ft)	Volume Purged	10.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
07:51	5.54	133.8	17.8	11.9	1
07:52	5.61	147.6	17.3	27.4	4
07:55	5.68	174.9	17.1	109.0	8
07:56		Purged Dry			10

SAMPLING DATA

Date: 9/27/2011 | Time: 08:09

Method: Teflon Bailer | Sampling Depth: 31.80'

pH: 5.73 ***(SU)*** | Conductivity: 175.1 ***(umhos/cm)***

Temperature: 18.8 ***(^{o} C)*** | Turbidity: 41.3 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-7A

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 14:17 | Weather Conditions: Cloudy 83 °F

Static Depth (Depth to Water)	15.77 (Ft)		Volume	36.25 (Liters)
Well Depth	78.38 (Ft)		3 Volumes	108.75 (Liters)
Water Column Height	62.61 (Ft)		Volume Purged	110.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
14:21	6.91	79.5	16.7	19.2	1
14:25	6.87	74.1	16.3	9.7	20
14:29	7.02	182.8	16.3	15.1	40
14:33	7.20	184.8	17.3	18.6	60
14:37	6.71	99.3	16.6	21.2	80
14:42	6.44	80.9	16.2	17.7	100
14:44		Finished Purging			110

SAMPLING DATA

Date: 9/26/2011 | Time: 14:49

Method: Teflon Bailer | Sampling Depth: 58.91'

pH: 6.30 ***(SU)*** | Conductivity: 79 ***(umhos/cm)***

Temperature: 16.7 ***(^{o} C)*** | Turbidity: 29.2 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-9

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 12:20 | Weather Conditions: Cloudy 77 °F

Static Depth (Depth to Water)	36.09	(Ft)	Volume	5.54 (Liters)
Well Depth	45.63	(Ft)	3 Volumes	16.64 (Liters)
Water Column Height	9.58	(Ft)	Volume Purged	0.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
		Sampled Only			

SAMPLING DATA

Date: 9/26/2011 | Time: 12:30

Method: Teflon Bailer | Sampling Depth: 36.09'

pH: 5.58 ***(SU)*** | Conductivity: 1393 ***(umhos/cm)***

Temperature: 18.7 ***(^{o} C)*** | Turbidity: 364 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: Slight Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-10A

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 13:23 | Weather Conditions: Cloudy 80 °F

Static Depth (Depth to Water)	35.54	(Ft)	Volume	7.80 (Liters)
Well Depth	49.02	(Ft)	3 Volumes	23.41 (Liters)
Water Column Height	13.48	(Ft)	Volume Purged	25.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
13:26	6.55	1,403.0	18.2	6.47	1
13:29	6.57	1,413.0	17.7	39.2	5
13:30	6.57	1,430.0	17.5	36.2	10
13:32	6.54	1,451.0	17.4	104.0	15
13:34	6.56	1,445.0	17.5	208.0	20
13:36	6.54	1,444.0	17.6	272.0	25
13:36		Finished Purging			25

SAMPLING DATA

Date: 9/26/2011 | Time: 13:40

Method: Teflon Bailer | Sampling Depth: 32.20'

pH: 6.55 ***(SU)*** | Conductivity: 1435 ***(umhos/cm)***

Temperature: 18.0 ***(^{o} C)*** | Turbidity: 199 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-10B

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 13:10 | Weather Conditions: Cloudy 80 °F

Static Depth (Depth to Water)	33.02	(Ft)	Volume	4.73 (Liters)
Well Depth	87.78	(Ft)	3 Volumes	14.19 (Liters)
Water Column Height	54.76	(Ft)	Volume Purged	0.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
		Sampled Only			

SAMPLING DATA

Date: 9/26/2011 | Time: 13:13

Method: Teflon Bailer | Sampling Depth: 33.02'

pH: 7.57 ***(SU)*** | Conductivity: 186.2 ***(umhos/cm)***

Temperature: 18.5 ***(^{o} C)*** | Turbidity: 12.5 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: Slight Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-11

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 12:45 | Weather Conditions: Cloudy 77 °F

Static Depth (Depth to Water)	16.92	(Ft)	Volume	11.11 (Liters)
Well Depth	36.12	(Ft)	3 Volumes	33.35 (Liters)
Water Column Height	19.20	(Ft)	Volume Purged	35.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
12:47	6.38	129.4	18.4	31.5	1
12:49	6.50	123.5	16.4	45.7	7
12:52	6.46	123.5	16.1	44.8	14
12:54	6.41	122.8	16.0	91.7	21
12:56	6.38	120.9	16.0	89.1	28
12:58	6.37	119.8	16.1	94.5	35
12:58		Finished Purging			35

SAMPLING DATA

Date: 9/26/2011 | Time: 13:02

Method: Teflon Bailer | Sampling Depth: 20.45'

pH: 6.34 ***(SU)*** | Conductivity: 119.8 ***(umhos/cm)***

Temperature: 16.7 ***(^oC)*** | Turbidity: 67.9 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-13

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 10:30 | Weather Conditions: Cloudy 75 °F

Static Depth (Depth to Water)	17.90	(Ft)	Volume	35.20 (Liters)
Well Depth	78.70	(Ft)	3 Volumes	105.60 (Liters)
Water Column Height	60.80	(Ft)	Volume Purged	100.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
10:35	6.64	189.7	18.1	3.54	1
10:41	6.87	187.5	16.9	20.40	20
10:47	6.78	187.0	16.8	19.75	40
10:52	6.72	185.6	16.5	8.35	60
10:58	6.71	185.7	16.6	9.16	80
11:04	6.72		16.9	6.28	100
11:04		Finished Purging			100

SAMPLING DATA

Date: 9/27/2011 | Time: 11:07

Method: Teflon Bailer | Sampling Depth: 19.50'

pH: 6.70 ***(SU)*** | Conductivity: 184.9 ***(umhos/cm)***

Temperature: 16.9 ***(^oC)*** | Turbidity: 4.5 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-14

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 12:32 | Weather Conditions: Cloudy 78 °F

Static Depth (Depth to Water)	29.51 (Ft)		Volume	2.86 (Liters)
Well Depth	34.45 (Ft)		3 Volumes	8.58 (Liters)
Water Column Height	4.94 (Ft)		Volume Purged	9.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
13:17	6.07	624.0	19.3	5.93	1
13:18	6.21	678.0	17.8	90.0	3
13:19	6.24	692.0	17.4	102.0	5
13:20	6.23	689.0	17.5	47.2	7
13:21	6.25	690.0	17.7	43.4	9
13:21		Finished Purging			9

SAMPLING DATA

Date: 9/27/2011 | Time: 13:25

Method: Teflon Bailer | Sampling Depth: 31.42'

pH: 6.22 ***(SU)*** | Conductivity: 683 ***(umhos/cm)***

Temperature: 18.1 ***(^{o} C)*** | Turbidity: 27.1 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: Slight Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-14A

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 12:28 | Weather Conditions: Cloudy 78 °F

Static Depth (Depth to Water)	30.75 (Ft)		Volume	31.73 (Liters)
Well Depth	85.56 (Ft)		3 Volumes	95.20 (Liters)
Water Column Height	54.81 (Ft)		Volume Purged	100.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
12:34	6.48	58.2	18.6	1.01	1
12:40	6.27	56.4	17.2	6.78	20
12:46	6.24	58.2	17.4	39.90	40
12:53	6.22	59.6	17.7	45.60	60
12:59	6.24	58.8	17.4	33.30	80
13:08	6.25	58.7	17.7	30.90	100
13:08		Finished Purging			100

SAMPLING DATA

Date: 9/27/2011 | Time: 13:11

Method: Teflon Bailer | Sampling Depth: 34.35'

pH: 6.20 ***(SU)*** | Conductivity: 58.6 ***(umhos/cm)***

Temperature: 18.2 ***(^{o} C)*** | Turbidity: 20.7 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-15

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 08:49 | Weather Conditions: Cloudy 69 °F

Static Depth (Depth to Water)	22.99 (Ft)		Volume	6.24 (Liters)
Well Depth	33.78 (Ft)		3 Volumes	18.74 (Liters)
Water Column Height	10.79 (Ft)		Volume Purged	20.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
08:51	4.95	65.9	17.5	2.71	1
08:52	4.59	46.6	16.5	56.8	4
08:53	4.63	39.4	16.4	73.8	8
08:54	4.64	39.2	16.6	89.5	12
08:55	4.60	40.7	16.5	108.0	16
08:56	4.62	42.0	16.5	115.0	20
08:56		Finished Purging			20

SAMPLING DATA

Date: 9/27/2011 | Time: 08:59

Method: Teflon Bailer | Sampling Depth: 27.61'

pH: 4.61 ***(SU)*** | Conductivity: 41.6 ***(umhos/cm)***

Temperature: 16.9 ***(^{o} C)*** | Turbidity: 109 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-16

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 12:00 | Weather Conditions: Cloudy 75 °F

Static Depth (Depth to Water)	8.14	(Ft)	Volume	7.09 (Liters)
Well Depth	20.40	(Ft)	3 Volumes	21.29 (Liters)
Water Column Height	12.26	(Ft)	Volume Purged	22.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
12:04	6.35	441.0	19.0	2.71	1
12:06	6.22	449.0	17.3	60.7	4
12:07	6.19	451.0	16.9	56.2	8
12:08	6.19	450.0	16.9	63.3	12
12:09	6.17	449.0	16.7	54.9	16
12:10	6.16	440.0	16.5	67.5	20
12:11		Finished Purging			22

SAMPLING DATA

Date: 9/27/2011 | Time: 12:13

Method: Teflon Bailer | Sampling Depth: 12.15'

pH: 6.15 ***(SU)*** | Conductivity: 432 ***(umhos/cm)***

Temperature: 16.6 ***(^{o} C)*** | Turbidity: 58 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-16A

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 11:14 | Weather Conditions: Cloudy 75 °F

Static Depth (Depth to Water)	5.19 (Ft)		Volume	44.29 (Liters)
Well Depth	81.70 (Ft)		3 Volumes	132.89 (Liters)
Water Column Height	76.51 (Ft)		Volume Purged	133.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
11:18	6.96	257.0	19.6	2.33	1
11:22	7.34	262.0	16.1	3.03	24
11:27	7.46	303.0	15.9	1.42	48
11:32	7.56	301.0	16.4	1.07	72
11:38	7.40	283.0	16.0	2.26	96
11:44	7.35	272.0	16.2	1.17	120
11:48		Finished Purging			133

SAMPLING DATA

Date: 9/27/2011 | Time: 11:51

Method: Teflon Bailer | Sampling Depth: 60.40'

pH: 7.43 / Dup 7.39 ***(SU)*** | Conductivity: 269 / Dup 270 ***(umhos/cm)***

Temperature: 17.3 / Dup 17.3 ***(^oC)*** | Turbidity: 2.89 / Dup 3.02 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-18

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 15:00 | Weather Conditions: Cloudy 84 °F

Static Depth (Depth to Water)	16.20	(Ft)	Volume	38.85 (Liters)
Well Depth	83.31	(Ft)	3 Volumes	116.57 (Liters)
Water Column Height	67.11	(Ft)	Volume Purged	117.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
15:03	7.64	60.5	19.1	71.0	1
15:08	8.78	61.9	16.5	34.1	20
15:13	7.75	67.0	16.5	37.0	40
15:19	7.01	66.4	16.8	15.0	60
15:24	6.81	66.2	16.5	12.11	80
15:29	6.74	66.8	16.7	12.0	100
15:33		Finished Purging			117

SAMPLING DATA

Date: 9/26/2011 | Time: 15:38

Method: Teflon Bailer | Sampling Depth: 18.00'

pH: 6.72 / Dup 6.71 ***(SU)*** | Conductivity: 66.2 / Dup 66.1 ***(umhos/cm)***

Temperature: 17.5 / Dup 17.3 ***(^oC)*** | Turbidity: 1.72 / Dup 2.06 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-20

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 16:24 | Weather Conditions: Cloudy 80 °F

Static Depth (Depth to Water)	32.38	(Ft)	Volume	30.35 (Liters)
Well Depth	84.80	(Ft)	3 Volumes	91.05 (Liters)
Water Column Height	52.42	(Ft)	Volume Purged	32.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
16:33	5.85	304.0	17.1	0.64	1
16:37	5.87	308.0	18.0	22.2	15
16:45	5.72	272.0	16.8	331.0	30
16:47		Purged Dry			32

SAMPLING DATA

Date: 9/27/2011 | Time: 09:06

Method: Teflon Bailer | Sampling Depth: 32.35'

pH: 5.30 ***(SU)*** | Conductivity: 139.3 ***(umhos/cm)***

Temperature: 17.7 ***(^{o} C)*** | Turbidity: 8.13 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-21

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 17:10 | Weather Conditions: Cloudy 80 °F

Static Depth (Depth to Water)	20.14	(Ft)	Volume	28.75 (Liters)
Well Depth	69.80	(Ft)	3 Volumes	86.25 (Liters)
Water Column Height	49.66	(Ft)	Volume Purged	0.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
		Sampled Only			

SAMPLING DATA

Date: 9/26/2011 | Time: 17:14

Method: Teflon Bailer | Sampling Depth: 20.14'

pH: 10.23 ***(SU)*** | Conductivity: 89.3 ***(umhos/cm)***

Temperature: 18.8 ***(^{o} C)*** | Turbidity: 1.44 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-23

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 07:15 | Weather Conditions: Cloudy 68 °F

Static Depth (Depth to Water)	22.49	(Ft)	Volume	6.72 (Liters)
Well Depth	34.11	(Ft)	3 Volumes	20.18 (Liters)
Water Column Height	11.62	(Ft)	Volume Purged	20.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
07:21	4.66	22.4	18.6	43.0	1
07:22	4.53	22.0	18.1	668.0	4
07:24	4.52	23.3	17.9	752.0	8
07:25	4.56	24.6	17.9	>800	12
07:26	4.55	20.8	17.8	>800	16
07:28	4.59	19.9	17.9	>800	20
07:28		Finished Purging			20

SAMPLING DATA

Date: 9/27/2011 | Time: 07:35

Method: Teflon Bailer | Sampling Depth: 25.36'

pH: 4.68 / Dup 4.65 ***(SU)*** | Conductivity: 20.7 / Dup 20.7 ***(umhos/cm)***

Temperature: 18.7 / Dup 18.7 ***(^{o} C)*** | Turbidity: 665 / Dup 667 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Red | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-24

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked		x	Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 09:30 | Weather Conditions: Cloudy 72 °F

Static Depth (Depth to Water)	24.48	(Ft)	Volume	7.01 (Liters)
Well Depth	36.60	(Ft)	3 Volumes	21.05 (Liters)
Water Column Height	12.12	(Ft)	Volume Purged	22.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
09:56	5.07	48.1	16.5	13.89	1
09:57	4.98	46.1	16.1	>800	4
09:58	5.07	44.4	15.8	>800	8
10:00	5.11	41.2	15.7	>800	12
10:02	5.15	39.8	15.7	>800	16
10:04	5.15	40.1	16.0	>800	20
10:05		Finished Purging			22

SAMPLING DATA

Date: 9/27/2011 | Time: 10:13

Method: Teflon Bailer | Sampling Depth: 28.11'

pH: 5.17 ***(SU)*** | Conductivity: 41.1 ***(umhos/cm)***

Temperature: 16.9 ***(^oC)*** | Turbidity: >800 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Red | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-24D

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked		x	Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 09:26 | Weather Conditions: Cloudy 72 °F

Static Depth (Depth to Water)	26.88 (Ft)		Volume	34.41 (Liters)
Well Depth	86.32 (Ft)		3 Volumes	103.24 (Liters)
Water Column Height	59.44 (Ft)		Volume Purged	60.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
09:28	6.34	44.8	16.9	14.75	1
09:32	6.37	43.6	16.2	46.4	16
09:38	6.28	44.5	16.1	230.0	32
09:44	6.29	45.4	16.1	400.0	48
09:53	6.31	45.8	16.9	>800	60
09:53		Purged Dry			60

SAMPLING DATA

Date: 9/27/2011 | Time: 10:18

Method: Teflon Bailer | Sampling Depth: 67.60'

pH: 6.15 ***(SU)*** | Conductivity: 45.3 ***(umhos/cm)***

Temperature: 16.9 ***(^{o} C)*** | Turbidity: 107 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: OW-1

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 08:19 | Weather Conditions: Cloudy 69 °F

Static Depth (Depth to Water)	29.72 (Ft)		Volume	3.90 (Liters)
Well Depth	36.46 (Ft)		3 Volumes	11.70 (Liters)
Water Column Height	6.74 (Ft)		Volume Purged	8.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
08:21	5.16	143.3	17.3	62.7	1
08:22	5.10	143.1	16.8	401.0	3
08:23	5.08	135.5	16.8	703.0	6
08:27		Purged Dry			8

SAMPLING DATA

Date: 9/27/2011 | Time: 08:41

Method: Teflon Bailer | Sampling Depth: 30.85'

pH: 5.12 ***(SU)*** | Conductivity: 128.4 ***(umhos/cm)***

Temperature: 17.6 ***(^{o} C)*** | Turbidity: 77.6 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

Surface Water Sampling Log

REI Consultants, Inc.

Project Name:	Newton Landfill		
Contact Person:	Rodney Hamby	Phone/Fax:	704-462-1348

Outlet:	CR-1		
Date:	9/27/2011	Time:	11:40
pH:	7.23	Conductivity:	187.7 *umhos/cm*
Flow:	N/A	Temperature:	19.6 *°C*
Sample Odor and Physical Appearance:	Clear / No Odor		
Comments:	Turbidity = 1.71 NTU		

Outlet:	SW-2		
Date:	9/27/2011	Time:	11:29
pH:	7.50	Conductivity:	249 *umhos/cm*
Flow:	N/A	Temperature:	19.7 *°C*
Sample Odor and Physical Appearance:	Clear / No Odor		
Comments:	Turbidity = 3.68 NTU		

Outlet:			
Date:		Time:	
pH:		Conductivity:	*umhos/cm*
Flow:		Temperature:	*°C*
Sample Odor and Physical Appearance:			
Comments:			

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix D:

Laboratory Analytical Reports and Chain-of-Custody Records

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276
FAX: 540.400.8508

101 17th Street
Ashland, KY 41101
TEL: 606.393.5027

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

Improving the environment, one client at a time...

October 14, 2011

Mr. Rodney Hamby
COUNTY OF CATAWBA
P O BOX 389
NEWTON NC 28658

TEL: (828) 465-8200
FAX (828) 465-8392

RE: NEWTON

Order No.: 1109S44

Dear Mr. Rodney Hamby:

REI Consultants, Inc. received 26 sample(s) on 9/30/2011 for the analyses presented in the following report.

Please note two changes you may see on your report.

- Results for "Dissolved" parameters will be shown under a separate sample ID, rather than as a separate analysis under the same sample ID. The sample ID for "Dissolved" parameters will include "Field Filtered" or "Lab Filtered", as appropriate.
- Metals results will no longer be identified as "Total" or "Total Recoverable". The methods have not been changed, only their appearance on the report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Michelle Ellison

Michelle Ellison

ACCREDITED IN ACCORDANCE WITH nelac

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276
FAX: 540.400.8508

101 17th Street
Ashland, KY 41101
TEL: 606.393.5027

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

Improving the environment, one client at a time...

Report Narrative

Project Manager:: **Michelle Ellison** Michelle Ellison

WO#: **1109S44**
Date: **10/14/2011**

CLIENT: COUNTY OF CATAWBA
Project: NEWTON

All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Any deviation from compliance or method modification is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

All sample results are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

The test results in this report meet all NELAP requirements for parameters for which accreditations are required or available. Any exceptions are noted in this report. This report may not be reproduced, except in full, without the written approval of REIC.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after five years unless otherwise arranged by the client via written notification or contract requirement.

If you have any questions please contact the project manager whose name is listed above.

Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, TNDEQ TN02926, NCDWQ 466, PADEP 68-00839, FLDOH (NELAC) E87958, VADCLS (VELAP) 460148
Bioassay (Beaver, WV): WVDEP 060, FLDOH (NELAC) E871055, VADCLS (VELAP) 460149
Roanoke, VA: VADCLS 00270, VADCLS (VELAP) 460150
Verona, VA: VADCLS (VELAP) 460157
Ashland, KY: KYDEP 00094

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-01A
Client Sample ID:	MW-1	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 2:05:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0054	mg/L	J	0.00100	0.0100	10/6/2011 9:54:03 PM
Lead	ND	mg/L		0.00020	0.0100	10/6/2011 9:54:03 PM
Nickel	0.0506	mg/L		0.00200	0.0500	10/6/2011 9:54:03 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	12,300	µg/L		488	10,000	10/6/2011 8:35:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 2:01:00 AM
Benzene	14.6	µg/L		0.13	1.0	10/5/2011 2:01:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 2:01:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 2:01:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 2:01:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 2:01:00 AM
2-Butanone	13,500	µg/L		468	10,000	10/6/2011 8:35:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 2:01:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 2:01:00 AM
Chlorobenzene	0.2	µg/L	J	0.18	3.0	10/5/2011 2:01:00 AM
Chloroethane	168	µg/L		9.42	100	10/6/2011 1:48:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 2:01:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 2:01:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 2:01:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 2:01:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 2:01:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 2:01:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 2:01:00 AM
1,4-Dichlorobenzene	1.8	µg/L		0.29	1.0	10/5/2011 2:01:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 2:01:00 AM
1,1-Dichloroethane	227	µg/L		3.83	50.0	10/6/2011 1:48:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 2:01:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 2:01:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 2:01:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 2:01:00 AM
1,2-Dichloropropane	6.1	µg/L		0.46	1.0	10/5/2011 2:01:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:01:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:01:00 AM
Ethylbenzene	24.6	µg/L		1.78	10	10/6/2011 1:48:00 AM
2-Hexanone	172	µg/L		4.11	50.0	10/5/2011 2:01:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 2:01:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-01A
Client Sample ID:	MW-1	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 2:05:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	20.6	µg/L		0.54	1.0	10/5/2011 2:01:00 AM
4-Methyl-2-pentanone	1,230	µg/L		44.0	1,000	10/6/2011 1:48:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 2:01:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 2:01:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 2:01:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 2:01:00 AM
Toluene	195	µg/L		1.67	10	10/6/2011 1:48:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 2:01:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 2:01:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 2:01:00 AM
Trichlorofluoromethane	4.1	µg/L		0.30	1.0	10/5/2011 2:01:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 2:01:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 2:01:00 AM
Vinyl chloride	17.1	µg/L		0.22	1.0	10/5/2011 2:01:00 AM
o-Xylene	14.6	µg/L		0.19	1.0	10/5/2011 2:01:00 AM
m,p-Xylene	25.3	µg/L		0.29	2.0	10/5/2011 2:01:00 AM
Surr: 1,2-Dichloroethane-d4	106	%REC			80-120	10/5/2011 2:01:00 AM
Surr: 4-Bromofluorobenzene	97.2	%REC			86-115	10/5/2011 2:01:00 AM
Surr: Dibromofluoromethane	108	%REC			80-120	10/5/2011 2:01:00 AM
Surr: Toluene-d8	98.6	%REC			88-110	10/5/2011 2:01:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	144	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-02A
Client Sample ID:	MW-3	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 8:09:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0011	mg/L	J	0.00100	0.0100	10/6/2011 10:11:43 PM
Lead	0.0013	mg/L	J	0.00020	0.0100	10/6/2011 10:11:43 PM
Nickel	0.0068	mg/L	J	0.00200	0.0500	10/6/2011 10:11:43 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	99.9	µg/L		48.8	50.0	10/6/2011 2:21:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 2:34:00 AM
Benzene	2.0	µg/L		0.13	1.0	10/5/2011 2:34:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 2:34:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 2:34:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 2:34:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 2:34:00 AM
2-Butanone	58.7	µg/L		46.8	50.0	10/6/2011 2:21:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 2:34:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 2:34:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 2:34:00 AM
Chloroethane	7.2	µg/L	J	0.94	10	10/5/2011 2:34:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 2:34:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 2:34:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 2:34:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 2:34:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 2:34:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 2:34:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 2:34:00 AM
1,4-Dichlorobenzene	0.6	µg/L	J	0.29	1.0	10/5/2011 2:34:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 2:34:00 AM
1,1-Dichloroethane	50.4	µg/L		3.83	50.0	10/6/2011 2:21:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 2:34:00 AM
1,1-Dichloroethene	2.7	µg/L	J	0.33	5.0	10/5/2011 2:34:00 AM
cis-1,2-Dichloroethene	2.4	µg/L	J	0.23	5.0	10/5/2011 2:34:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 2:34:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 2:34:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:34:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:34:00 AM
Ethylbenzene	0.2	µg/L	J	0.18	1.0	10/5/2011 2:34:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 2:34:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 2:34:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-02A
Client Sample ID:	MW-3	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 8:09:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	0.9	µg/L	J	0.54	1.0	10/5/2011 2:34:00 AM
4-Methyl-2-pentanone	14.4	µg/L	J	4.40	100	10/5/2011 2:34:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 2:34:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 2:34:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 2:34:00 AM
Tetrachloroethene	3.3	µg/L		0.20	1.0	10/5/2011 2:34:00 AM
Toluene	0.8	µg/L	J	0.17	1.0	10/5/2011 2:34:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 2:34:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 2:34:00 AM
Trichloroethene	4.8	µg/L		0.30	1.0	10/5/2011 2:34:00 AM
Trichlorofluoromethane	1.6	µg/L		0.30	1.0	10/5/2011 2:34:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 2:34:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 2:34:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 2:34:00 AM
o-Xylene	1.0	µg/L	J	0.19	1.0	10/5/2011 2:34:00 AM
m,p-Xylene	11.5	µg/L		0.29	2.0	10/5/2011 2:34:00 AM
Surr: 1,2-Dichloroethane-d4	107	%REC			80-120	10/5/2011 2:34:00 AM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	10/5/2011 2:34:00 AM
Surr: Dibromofluoromethane	105	%REC			80-120	10/5/2011 2:34:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 2:34:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	30	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-03A
Client Sample ID:	MW-9	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 12:30:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0052	mg/L	J	0.00100	0.0100	10/6/2011 10:29:16 PM
Lead	0.0014	mg/L	J	0.00020	0.0100	10/6/2011 10:29:16 PM
Nickel	0.195	mg/L		0.00200	0.0500	10/6/2011 10:29:16 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 3:08:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 3:08:00 AM
Benzene	15.4	µg/L		0.13	1.0	10/5/2011 3:08:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 3:08:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 3:08:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 3:08:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 3:08:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 3:08:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 3:08:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 3:08:00 AM
Chlorobenzene	1.5	µg/L	J	0.18	3.0	10/5/2011 3:08:00 AM
Chloroethane	3.3	µg/L	J	0.94	10	10/5/2011 3:08:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 3:08:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 3:08:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 3:08:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 3:08:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 3:08:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 3:08:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 3:08:00 AM
1,4-Dichlorobenzene	9.5	µg/L		0.29	1.0	10/5/2011 3:08:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 3:08:00 AM
1,1-Dichloroethane	434	µg/L		19.2	250	10/6/2011 3:30:00 PM
1,2-Dichloroethane	69.1	µg/L		4.28	10	10/6/2011 2:55:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 3:08:00 AM
cis-1,2-Dichloroethene	175	µg/L		2.26	50.0	10/6/2011 2:55:00 AM
trans-1,2-Dichloroethene	8.8	µg/L		0.39	5.0	10/5/2011 3:08:00 AM
1,2-Dichloropropane	28.9	µg/L		4.61	10	10/6/2011 2:55:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:08:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:08:00 AM
Ethylbenzene	6.5	µg/L		0.18	1.0	10/5/2011 3:08:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 3:08:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 3:08:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-03A
Client Sample ID:	MW-9	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 12:30:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	6.9	µg/L		0.54	1.0	10/5/2011 3:08:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 3:08:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 3:08:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 3:08:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 3:08:00 AM
Tetrachloroethene	0.6	µg/L	J	0.20	1.0	10/5/2011 3:08:00 AM
Toluene	31.3	µg/L		1.67	10	10/6/2011 2:55:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 3:08:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 3:08:00 AM
Trichloroethene	2.0	µg/L		0.30	1.0	10/5/2011 3:08:00 AM
Trichlorofluoromethane	2.4	µg/L		0.30	1.0	10/5/2011 3:08:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 3:08:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 3:08:00 AM
Vinyl chloride	82.3	µg/L		2.23	10	10/6/2011 2:55:00 AM
o-Xylene	26.1	µg/L		1.86	10	10/6/2011 2:55:00 AM
m,p-Xylene	23.2	µg/L		0.29	2.0	10/5/2011 3:08:00 AM
Surr: 1,2-Dichloroethane-d4	80.0	%REC			80-120	10/5/2011 3:08:00 AM
Surr: 4-Bromofluorobenzene	101	%REC			86-115	10/5/2011 3:08:00 AM
Surr: Dibromofluoromethane	108	%REC			80-120	10/5/2011 3:08:00 AM
Surr: Toluene-d8	101	%REC			88-110	10/5/2011 3:08:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	54	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-04A
Client Sample ID:	MW-10A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 1:40:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0160	mg/L		0.00100	0.0100	10/6/2011 10:35:08 PM
Lead	0.0019	mg/L	J	0.00020	0.0100	10/6/2011 10:35:08 PM
Nickel	0.0161	mg/L	J	0.00200	0.0500	10/6/2011 10:35:08 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 3:41:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 3:41:00 AM
Benzene	6.7	µg/L		0.13	1.0	10/5/2011 3:41:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 3:41:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 3:41:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 3:41:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 3:41:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 3:41:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 3:41:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 3:41:00 AM
Chlorobenzene	1.1	µg/L	J	0.18	3.0	10/5/2011 3:41:00 AM
Chloroethane	2.3	µg/L	J	0.94	10	10/5/2011 3:41:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 3:41:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 3:41:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 3:41:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 3:41:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 3:41:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 3:41:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 3:41:00 AM
1,4-Dichlorobenzene	7.8	µg/L		0.29	1.0	10/5/2011 3:41:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 3:41:00 AM
1,1-Dichloroethane	177	µg/L		3.83	50.0	10/6/2011 3:29:00 AM
1,2-Dichloroethane	8.7	µg/L		0.43	1.0	10/5/2011 3:41:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 3:41:00 AM
cis-1,2-Dichloroethene	6.1	µg/L		0.23	5.0	10/5/2011 3:41:00 AM
trans-1,2-Dichloroethene	1.4	µg/L	J	0.39	5.0	10/5/2011 3:41:00 AM
1,2-Dichloropropane	22.5	µg/L		0.46	1.0	10/5/2011 3:41:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:41:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:41:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 3:41:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 3:41:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 3:41:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-04A
Client Sample ID:	MW-10A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 1:40:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 3:41:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 3:41:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 3:41:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 3:41:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 3:41:00 AM
Tetrachloroethene	1.3	µg/L		0.20	1.0	10/5/2011 3:41:00 AM
Toluene	0.4	µg/L	J	0.17	1.0	10/5/2011 3:41:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 3:41:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 3:41:00 AM
Trichloroethene	0.4	µg/L	J	0.30	1.0	10/5/2011 3:41:00 AM
Trichlorofluoromethane	1.9	µg/L		0.30	1.0	10/5/2011 3:41:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 3:41:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 3:41:00 AM
Vinyl chloride	7.8	µg/L		0.22	1.0	10/5/2011 3:41:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 3:41:00 AM
m,p-Xylene	0.7	µg/L	J	0.29	2.0	10/5/2011 3:41:00 AM
Surr: 1,2-Dichloroethane-d4	114	%REC			80-120	10/5/2011 3:41:00 AM
Surr: 4-Bromofluorobenzene	99.7	%REC			86-115	10/5/2011 3:41:00 AM
Surr: Dibromofluoromethane	107	%REC			80-120	10/5/2011 3:41:00 AM
Surr: Toluene-d8	101	%REC			88-110	10/5/2011 3:41:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	249	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-05A
Client Sample ID:	MW-10B	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 1:13:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/6/2011 10:40:59 PM
Lead	0.0005	mg/L	J	0.00020	0.0100	10/6/2011 10:40:59 PM
Nickel	0.0033	mg/L	J	0.00200	0.0500	10/6/2011 10:40:59 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 4:14:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 4:14:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 4:14:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 4:14:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 4:14:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 4:14:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 4:14:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 4:14:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 4:14:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 4:14:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 4:14:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 4:14:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 4:14:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 4:14:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 4:14:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 4:14:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 4:14:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 4:14:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 4:14:00 AM
1,4-Dichlorobenzene	1.6	µg/L		0.29	1.0	10/5/2011 4:14:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 4:14:00 AM
1,1-Dichloroethane	32.6	µg/L		3.83	10	10/10/2011 5:38:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 4:14:00 AM
1,1-Dichloroethene	0.5	µg/L	J	0.33	5.0	10/5/2011 4:14:00 AM
cis-1,2-Dichloroethene	13.5	µg/L		0.23	5.0	10/5/2011 4:14:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 4:14:00 AM
1,2-Dichloropropane	0.7	µg/L	J	0.46	1.0	10/5/2011 4:14:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 4:14:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 4:14:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 4:14:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 4:14:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 4:14:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-05A
Client Sample ID:	MW-10B	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 1:13:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	1.4	µg/L		0.54	1.0	10/5/2011 4:14:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 4:14:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 4:14:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 4:14:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 4:14:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 4:14:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 4:14:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 4:14:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 4:14:00 AM
Trichloroethene	5.4	µg/L		0.30	1.0	10/5/2011 4:14:00 AM
Trichlorofluoromethane	0.3	µg/L	J	0.30	1.0	10/5/2011 4:14:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 4:14:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 4:14:00 AM
Vinyl chloride	4.4	µg/L		0.22	1.0	10/5/2011 4:14:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 4:14:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 4:14:00 AM
Surr: 1,2-Dichloroethane-d4	109	%REC			80-120	10/5/2011 4:14:00 AM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	10/5/2011 4:14:00 AM
Surr: Dibromofluoromethane	106	%REC			80-120	10/5/2011 4:14:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 4:14:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	8	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-06A
Client Sample ID:	MW-11	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 1:02:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0033	mg/L	J	0.00100	0.0100	10/6/2011 10:46:52 PM
Lead	0.0002	mg/L	J	0.00020	0.0100	10/6/2011 10:46:52 PM
Nickel	0.0023	mg/L	J	0.00200	0.0500	10/6/2011 10:46:52 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 4:47:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 4:47:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 4:47:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 4:47:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 4:47:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 4:47:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 4:47:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 4:47:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 4:47:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 4:47:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 4:47:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 4:47:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 4:47:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 4:47:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 4:47:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 4:47:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 4:47:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 4:47:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 4:47:00 AM
1,4-Dichlorobenzene	0.3	µg/L	J	0.29	1.0	10/5/2011 4:47:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 4:47:00 AM
1,1-Dichloroethane	11.5	µg/L		0.38	5.0	10/5/2011 4:47:00 AM
1,2-Dichloroethane	7.4	µg/L		0.43	1.0	10/5/2011 4:47:00 AM
1,1-Dichloroethene	1.2	µg/L	J	0.33	5.0	10/5/2011 4:47:00 AM
cis-1,2-Dichloroethene	0.8	µg/L	J	0.23	5.0	10/5/2011 4:47:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 4:47:00 AM
1,2-Dichloropropane	1.0	µg/L		0.46	1.0	10/5/2011 4:47:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 4:47:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 4:47:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 4:47:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 4:47:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 4:47:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-06A
Client Sample ID:	MW-11	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 1:02:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	0.8	µg/L	J	0.54	1.0	10/5/2011 4:47:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 4:47:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 4:47:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 4:47:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 4:47:00 AM
Tetrachloroethene	2.1	µg/L		0.20	1.0	10/5/2011 4:47:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 4:47:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 4:47:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 4:47:00 AM
Trichloroethene	1.4	µg/L		0.30	1.0	10/5/2011 4:47:00 AM
Trichlorofluoromethane	19.6	µg/L		0.30	1.0	10/5/2011 4:47:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 4:47:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 4:47:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 4:47:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 4:47:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 4:47:00 AM
Surr: 1,2-Dichloroethane-d4	109	%REC			80-120	10/5/2011 4:47:00 AM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	10/5/2011 4:47:00 AM
Surr: Dibromofluoromethane	107	%REC			80-120	10/5/2011 4:47:00 AM
Surr: Toluene-d8	103	%REC			88-110	10/5/2011 4:47:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	54	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-07A
Client Sample ID:	MW-13	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:07:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/6/2011 10:52:44 PM
Lead	ND	mg/L		0.00020	0.0100	10/6/2011 10:52:44 PM
Nickel	ND	mg/L		0.00200	0.0500	10/6/2011 10:52:44 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 5:20:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 5:20:00 AM
Benzene	0.4	µg/L	J	0.13	1.0	10/5/2011 5:20:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 5:20:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 5:20:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 5:20:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 5:20:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 5:20:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 5:20:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 5:20:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 5:20:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 5:20:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 5:20:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 5:20:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 5:20:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 5:20:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 5:20:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 5:20:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 5:20:00 AM
1,4-Dichlorobenzene	0.3	µg/L	J	0.29	1.0	10/5/2011 5:20:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 5:20:00 AM
1,1-Dichloroethane	38.7	µg/L		3.83	10	10/6/2011 4:38:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 5:20:00 AM
1,1-Dichloroethene	2.6	µg/L	J	0.33	5.0	10/5/2011 5:20:00 AM
cis-1,2-Dichloroethene	36.6	µg/L		2.26	10	10/6/2011 4:38:00 AM
trans-1,2-Dichloroethene	1.8	µg/L	J	0.39	5.0	10/5/2011 5:20:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 5:20:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:20:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:20:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 5:20:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 5:20:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 5:20:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-07A
Client Sample ID:	MW-13	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:07:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 5:20:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 5:20:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 5:20:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 5:20:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 5:20:00 AM
Tetrachloroethene	2.3	µg/L		0.20	1.0	10/5/2011 5:20:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 5:20:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 5:20:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 5:20:00 AM
Trichloroethene	21.4	µg/L		0.30	1.0	10/5/2011 5:20:00 AM
Trichlorofluoromethane	12.6	µg/L		0.30	1.0	10/5/2011 5:20:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 5:20:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 5:20:00 AM
Vinyl chloride	5.4	µg/L		0.22	1.0	10/5/2011 5:20:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 5:20:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 5:20:00 AM
Surr: 1,2-Dichloroethane-d4	107	%REC			80-120	10/5/2011 5:20:00 AM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	10/5/2011 5:20:00 AM
Surr: Dibromofluoromethane	108	%REC			80-120	10/5/2011 5:20:00 AM
Surr: Toluene-d8	103	%REC			88-110	10/5/2011 5:20:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	8	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-08A
Client Sample ID:	MW-14	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 1:25:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/6/2011 10:58:36 PM
Lead	0.0004	mg/L	J	0.00020	0.0100	10/6/2011 10:58:36 PM
Nickel	0.0022	mg/L	J	0.00200	0.0500	10/6/2011 10:58:36 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 5:53:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 5:53:00 AM
Benzene	15.5	µg/L		0.13	1.0	10/5/2011 5:53:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 5:53:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 5:53:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 5:53:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 5:53:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 5:53:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 5:53:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 5:53:00 AM
Chlorobenzene	8.8	µg/L		0.18	3.0	10/5/2011 5:53:00 AM
Chloroethane	14.5	µg/L		0.94	10	10/5/2011 5:53:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 5:53:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 5:53:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 5:53:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 5:53:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 5:53:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 5:53:00 AM
1,2-Dichlorobenzene	0.7	µg/L	J	0.45	5.0	10/5/2011 5:53:00 AM
1,4-Dichlorobenzene	24.8	µg/L		2.87	10	10/6/2011 5:11:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 5:53:00 AM
1,1-Dichloroethane	242	µg/L		3.83	50.0	10/6/2011 5:11:00 AM
1,2-Dichloroethane	5.1	µg/L		0.43	1.0	10/5/2011 5:53:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 5:53:00 AM
cis-1,2-Dichloroethene	250	µg/L		2.26	50.0	10/6/2011 5:11:00 AM
trans-1,2-Dichloroethene	5.9	µg/L		0.39	5.0	10/5/2011 5:53:00 AM
1,2-Dichloropropane	3.9	µg/L		0.46	1.0	10/5/2011 5:53:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:53:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:53:00 AM
Ethylbenzene	16.7	µg/L		0.18	1.0	10/5/2011 5:53:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 5:53:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 5:53:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-08A
Client Sample ID:	MW-14	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 1:25:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	2.3	µg/L		0.54	1.0	10/5/2011 5:53:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 5:53:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 5:53:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 5:53:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 5:53:00 AM
Tetrachloroethene	4.0	µg/L		0.20	1.0	10/5/2011 5:53:00 AM
Toluene	4.3	µg/L		0.17	1.0	10/5/2011 5:53:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 5:53:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 5:53:00 AM
Trichloroethene	34.1	µg/L		3.02	10	10/6/2011 5:11:00 AM
Trichlorofluoromethane	3.1	µg/L		0.30	1.0	10/5/2011 5:53:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 5:53:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 5:53:00 AM
Vinyl chloride	38.6	µg/L		2.23	10	10/6/2011 5:11:00 AM
o-Xylene	17.0	µg/L		0.19	1.0	10/5/2011 5:53:00 AM
m,p-Xylene	193	µg/L		2.87	20.0	10/6/2011 5:11:00 AM
Surr: 1,2-Dichloroethane-d4	106	%REC			80-120	10/5/2011 5:53:00 AM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	10/5/2011 5:53:00 AM
Surr: Dibromofluoromethane	108	%REC			80-120	10/5/2011 5:53:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 5:53:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	62	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-09A
Client Sample ID:	MW-14A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 1:11:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0042	mg/L	J	0.00100	0.0100	10/6/2011 11:04:29 PM
Lead	0.0002	mg/L	J	0.00020	0.0100	10/6/2011 11:04:29 PM
Nickel	0.0024	mg/L	J	0.00200	0.0500	10/6/2011 11:04:29 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 6:27:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 6:27:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 6:27:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 6:27:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 6:27:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 6:27:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 6:27:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 6:27:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 6:27:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 6:27:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 6:27:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 6:27:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 6:27:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 6:27:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 6:27:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 6:27:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 6:27:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 6:27:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 6:27:00 AM
1,4-Dichlorobenzene	5.0	µg/L		0.29	1.0	10/5/2011 6:27:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 6:27:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 6:27:00 AM
1,2-Dichloroethane	1.2	µg/L		0.43	1.0	10/5/2011 6:27:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 6:27:00 AM
cis-1,2-Dichloroethene	3.1	µg/L	J	0.23	5.0	10/5/2011 6:27:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 6:27:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 6:27:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 6:27:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 6:27:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 6:27:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 6:27:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 6:27:00 AM

Key:

MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-09A
Client Sample ID:	MW-14A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 1:11:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 6:27:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 6:27:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 6:27:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 6:27:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 6:27:00 AM
Tetrachloroethene	20.3	µg/L		0.20	1.0	10/6/2011 5:44:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 6:27:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 6:27:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 6:27:00 AM
Trichloroethene	6.6	µg/L		0.30	1.0	10/5/2011 6:27:00 AM
Trichlorofluoromethane	1.7	µg/L		0.30	1.0	10/5/2011 6:27:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 6:27:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 6:27:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 6:27:00 AM
o-Xylene	0.2	µg/L	J	0.19	1.0	10/5/2011 6:27:00 AM
m,p-Xylene	2.2	µg/L		0.29	2.0	10/5/2011 6:27:00 AM
Surr: 1,2-Dichloroethane-d4	105	%REC			80-120	10/5/2011 6:27:00 AM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	10/5/2011 6:27:00 AM
Surr: Dibromofluoromethane	104	%REC			80-120	10/5/2011 6:27:00 AM
Surr: Toluene-d8	105	%REC			88-110	10/5/2011 6:27:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	27	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-10A
Client Sample ID:	MW-15	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 8:59:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0012	mg/L	J	0.00100	0.0100	10/6/2011 11:10:22 PM
Lead	0.0008	mg/L	J	0.00020	0.0100	10/6/2011 11:10:22 PM
Nickel	0.0047	mg/L	J	0.00200	0.0500	10/6/2011 11:10:22 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 7:00:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 7:00:00 AM
Benzene	15.2	µg/L		0.13	1.0	10/5/2011 7:00:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 7:00:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 7:00:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 7:00:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 7:00:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 7:00:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 7:00:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 7:00:00 AM
Chlorobenzene	4.8	µg/L		0.18	3.0	10/5/2011 7:00:00 AM
Chloroethane	1.9	µg/L	J	0.94	10	10/5/2011 7:00:00 AM
Chloroform	0.3	µg/L	J	0.25	5.0	10/5/2011 7:00:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 7:00:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 7:00:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 7:00:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 7:00:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 7:00:00 AM
1,2-Dichlorobenzene	0.7	µg/L	J	0.45	5.0	10/5/2011 7:00:00 AM
1,4-Dichlorobenzene	5.7	µg/L		0.29	1.0	10/5/2011 7:00:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 7:00:00 AM
1,1-Dichloroethane	434	µg/L		38.3	100	10/6/2011 8:01:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 7:00:00 AM
1,1-Dichloroethene	2.4	µg/L	J	0.33	5.0	10/5/2011 7:00:00 AM
cis-1,2-Dichloroethene	464	µg/L		22.6	100	10/6/2011 8:01:00 AM
trans-1,2-Dichloroethene	10.6	µg/L		0.39	5.0	10/5/2011 7:00:00 AM
1,2-Dichloropropane	1.3	µg/L		0.46	1.0	10/5/2011 7:00:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 7:00:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 7:00:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 7:00:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 7:00:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 7:00:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-10A
Client Sample ID:	MW-15	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 8:59:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	82.4	µg/L		5.39	10	10/6/2011 6:19:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 7:00:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 7:00:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 7:00:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 7:00:00 AM
Tetrachloroethene	6.8	µg/L		0.20	1.0	10/5/2011 7:00:00 AM
Toluene	0.2	µg/L	J	0.17	1.0	10/5/2011 7:00:00 AM
1,1,1-Trichloroethane	0.6	µg/L	J	0.35	1.0	10/5/2011 7:00:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 7:00:00 AM
Trichloroethene	110	µg/L		3.02	10	10/6/2011 6:19:00 AM
Trichlorofluoromethane	16.5	µg/L		0.30	1.0	10/5/2011 7:00:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 7:00:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 7:00:00 AM
Vinyl chloride	10.2	µg/L		0.22	1.0	10/5/2011 7:00:00 AM
o-Xylene	24.9	µg/L		0.19	1.0	10/5/2011 7:00:00 AM
m,p-Xylene	22.3	µg/L		0.29	2.0	10/5/2011 7:00:00 AM
Surr: 1,2-Dichloroethane-d4	103	%REC			80-120	10/5/2011 7:00:00 AM
Surr: 4-Bromofluorobenzene	100	%REC			86-115	10/5/2011 7:00:00 AM
Surr: Dibromofluoromethane	109	%REC			80-120	10/5/2011 7:00:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 7:00:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	112	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-11A
Client Sample ID:	MW-16	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 12:13:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0049	mg/L	J	0.00100	0.0100	10/6/2011 11:16:16 PM
Lead	0.0007	mg/L	J	0.00020	0.0100	10/6/2011 11:16:16 PM
Nickel	0.0131	mg/L	J	0.00200	0.0500	10/6/2011 11:16:16 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 7:33:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 7:33:00 AM
Benzene	2.4	µg/L		0.13	1.0	10/5/2011 7:33:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 7:33:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 7:33:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 7:33:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 7:33:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 7:33:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 7:33:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 7:33:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 7:33:00 AM
Chloroethane	10.1	µg/L		0.94	10	10/5/2011 7:33:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 7:33:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 7:33:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 7:33:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 7:33:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 7:33:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 7:33:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 7:33:00 AM
1,4-Dichlorobenzene	1.7	µg/L		0.29	1.0	10/5/2011 7:33:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 7:33:00 AM
1,1-Dichloroethane	114	µg/L		3.83	50.0	10/6/2011 6:53:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 7:33:00 AM
1,1-Dichloroethene	1.8	µg/L	J	0.33	5.0	10/5/2011 7:33:00 AM
cis-1,2-Dichloroethene	17.8	µg/L		0.23	5.0	10/5/2011 7:33:00 AM
trans-1,2-Dichloroethene	0.7	µg/L	J	0.39	5.0	10/5/2011 7:33:00 AM
1,2-Dichloropropane	0.8	µg/L	J	0.46	1.0	10/5/2011 7:33:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 7:33:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 7:33:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 7:33:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 7:33:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 7:33:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-11A
Client Sample ID:	MW-16	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 12:13:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 7:33:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 7:33:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 7:33:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 7:33:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 7:33:00 AM
Tetrachloroethene	1.3	µg/L		0.20	1.0	10/5/2011 7:33:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 7:33:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 7:33:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 7:33:00 AM
Trichloroethene	20.2	µg/L		0.30	1.0	10/5/2011 7:33:00 AM
Trichlorofluoromethane	10.5	µg/L		0.30	1.0	10/5/2011 7:33:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 7:33:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 7:33:00 AM
Vinyl chloride	10.7	µg/L		0.22	1.0	10/5/2011 7:33:00 AM
o-Xylene	0.4	µg/L	J	0.19	1.0	10/5/2011 7:33:00 AM
m,p-Xylene	0.3	µg/L	J	0.29	2.0	10/5/2011 7:33:00 AM
Surr: 1,2-Dichloroethane-d4	104	%REC			80-120	10/5/2011 7:33:00 AM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	10/5/2011 7:33:00 AM
Surr: Dibromofluoromethane	106	%REC			80-120	10/5/2011 7:33:00 AM
Surr: Toluene-d8	104	%REC			88-110	10/5/2011 7:33:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	86	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-12A
Client Sample ID:	MW-16A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:51:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/6/2011 11:22:09 PM
Lead	ND	mg/L		0.00020	0.0100	10/6/2011 11:22:09 PM
Nickel	ND	mg/L		0.00200	0.0500	10/6/2011 11:22:09 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 8:06:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 8:06:00 AM
Benzene	0.3	µg/L	J	0.13	1.0	10/5/2011 8:06:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 8:06:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 8:06:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 8:06:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 8:06:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 8:06:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 8:06:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 8:06:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 8:06:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 8:06:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 8:06:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 8:06:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 8:06:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 8:06:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 8:06:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 8:06:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 8:06:00 AM
1,4-Dichlorobenzene	0.5	µg/L	J	0.29	1.0	10/5/2011 8:06:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 8:06:00 AM
1,1-Dichloroethane	35.6	µg/L		3.83	10	10/6/2011 7:27:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 8:06:00 AM
1,1-Dichloroethene	2.9	µg/L	J	0.33	5.0	10/5/2011 8:06:00 AM
cis-1,2-Dichloroethene	38.3	µg/L		2.26	10	10/6/2011 7:27:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 8:06:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 8:06:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 8:06:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 8:06:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 8:06:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 8:06:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 8:06:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-12A
Client Sample ID:	MW-16A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:51:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 8:06:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 8:06:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 8:06:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 8:06:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 8:06:00 AM
Tetrachloroethene	1.7	µg/L		0.20	1.0	10/5/2011 8:06:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 8:06:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 8:06:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 8:06:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 8:06:00 AM
Trichlorofluoromethane	15.2	µg/L		0.30	1.0	10/5/2011 8:06:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 8:06:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 8:06:00 AM
Vinyl chloride	4.7	µg/L		0.22	1.0	10/5/2011 8:06:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 8:06:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 8:06:00 AM
Surr: 1,2-Dichloroethane-d4	105	%REC			80-120	10/5/2011 8:06:00 AM
Surr: 4-Bromofluorobenzene	101	%REC			86-115	10/5/2011 8:06:00 AM
Surr: Dibromofluoromethane	106	%REC			80-120	10/5/2011 8:06:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 8:06:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	3	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-13A
Client Sample ID:	MW-20	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 9:06:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0010	mg/L	J	0.00100	0.0100	10/6/2011 11:39:41 PM
Lead	ND	mg/L		0.00020	0.0100	10/6/2011 11:39:41 PM
Nickel	0.0030	mg/L	J	0.00200	0.0500	10/6/2011 11:39:41 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/4/2011 11:47:00 PM
Acrylonitrile	ND	µg/L		4.24	200	10/4/2011 11:47:00 PM
Benzene	18.4	µg/L		0.13	1.0	10/4/2011 11:47:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	10/4/2011 11:47:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/4/2011 11:47:00 PM
Bromoform	ND	µg/L		0.40	3.0	10/4/2011 11:47:00 PM
Bromomethane	ND	µg/L		0.50	10	10/4/2011 11:47:00 PM
2-Butanone	ND	µg/L		4.68	100	10/4/2011 11:47:00 PM
Carbon disulfide	ND	µg/L		1.27	100	10/4/2011 11:47:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/4/2011 11:47:00 PM
Chlorobenzene	1.6	µg/L	J	0.18	3.0	10/4/2011 11:47:00 PM
Chloroethane	ND	µg/L		0.94	10	10/4/2011 11:47:00 PM
Chloroform	ND	µg/L		0.25	5.0	10/4/2011 11:47:00 PM
Chloromethane	ND	µg/L		0.33	1.0	10/4/2011 11:47:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/4/2011 11:47:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/4/2011 11:47:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/4/2011 11:47:00 PM
Dibromomethane	ND	µg/L		0.29	10	10/4/2011 11:47:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/4/2011 11:47:00 PM
1,4-Dichlorobenzene	3.9	µg/L		0.29	1.0	10/4/2011 11:47:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/4/2011 11:47:00 PM
1,1-Dichloroethane	587	µg/L		38.3	500	10/6/2011 9:09:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/4/2011 11:47:00 PM
1,1-Dichloroethene	6.4	µg/L		0.33	5.0	10/4/2011 11:47:00 PM
cis-1,2-Dichloroethene	1,400	µg/L		22.6	500	10/6/2011 9:09:00 AM
trans-1,2-Dichloroethene	5.9	µg/L		0.39	5.0	10/4/2011 11:47:00 PM
1,2-Dichloropropane	8.5	µg/L		0.46	1.0	10/4/2011 11:47:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/4/2011 11:47:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/4/2011 11:47:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/4/2011 11:47:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	10/4/2011 11:47:00 PM
Iodomethane	ND	µg/L		3.44	10	10/4/2011 11:47:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-13A
Client Sample ID:	MW-20	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 9:06:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	53.0	µg/L		5.39	10	10/6/2011 5:14:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/4/2011 11:47:00 PM
Styrene	ND	µg/L		0.24	1.0	10/4/2011 11:47:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/4/2011 11:47:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/4/2011 11:47:00 PM
Tetrachloroethene	66.1	µg/L		1.96	10	10/6/2011 5:14:00 PM
Toluene	ND	µg/L		0.17	1.0	10/4/2011 11:47:00 PM
1,1,1-Trichloroethane	3.1	µg/L		0.35	1.0	10/4/2011 11:47:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/4/2011 11:47:00 PM
Trichloroethene	900	µg/L		30.2	100	10/6/2011 9:09:00 AM
Trichlorofluoromethane	17.4	µg/L		0.30	1.0	10/4/2011 11:47:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/4/2011 11:47:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	10/4/2011 11:47:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	10/4/2011 11:47:00 PM
o-Xylene	17.2	µg/L		0.19	1.0	10/4/2011 11:47:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/4/2011 11:47:00 PM
Surr: 1,2-Dichloroethane-d4	102	%REC			80-120	10/4/2011 11:47:00 PM
Surr: 4-Bromofluorobenzene	101	%REC			86-115	10/4/2011 11:47:00 PM
Surr: Dibromofluoromethane	112	%REC			80-120	10/4/2011 11:47:00 PM
Surr: Toluene-d8	103	%REC			88-110	10/4/2011 11:47:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	1	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-14A
Client Sample ID:	MW-21	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 5:14:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0057	mg/L	J	0.00100	0.0100	10/6/2011 11:45:33 PM
Lead	0.0005	mg/L	J	0.00020	0.0100	10/6/2011 11:45:33 PM
Nickel	0.0027	mg/L	J	0.00200	0.0500	10/6/2011 11:45:33 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/6/2011 11:54:00 PM
Acrylonitrile	ND	µg/L		4.24	200	10/6/2011 11:54:00 PM
Benzene	ND	µg/L		0.13	1.0	10/6/2011 11:54:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	10/6/2011 11:54:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/6/2011 11:54:00 PM
Bromoform	ND	µg/L		0.40	3.0	10/6/2011 11:54:00 PM
Bromomethane	ND	µg/L		0.50	10	10/6/2011 11:54:00 PM
2-Butanone	ND	µg/L		4.68	100	10/6/2011 11:54:00 PM
Carbon disulfide	ND	µg/L		1.27	100	10/6/2011 11:54:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/6/2011 11:54:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	10/6/2011 11:54:00 PM
Chloroethane	ND	µg/L		0.94	10	10/6/2011 11:54:00 PM
Chloroform	ND	µg/L		0.25	5.0	10/6/2011 11:54:00 PM
Chloromethane	ND	µg/L		0.33	1.0	10/6/2011 11:54:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/6/2011 11:54:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/6/2011 11:54:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/6/2011 11:54:00 PM
Dibromomethane	ND	µg/L		0.29	10	10/6/2011 11:54:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/6/2011 11:54:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/6/2011 11:54:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/6/2011 11:54:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/6/2011 11:54:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/6/2011 11:54:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/6/2011 11:54:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/6/2011 11:54:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/6/2011 11:54:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/6/2011 11:54:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/6/2011 11:54:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/6/2011 11:54:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/6/2011 11:54:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	10/6/2011 11:54:00 PM
Iodomethane	ND	µg/L		3.44	10	10/6/2011 11:54:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-14A
Client Sample ID:	MW-21	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 5:14:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/6/2011 11:54:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/6/2011 11:54:00 PM
Styrene	ND	µg/L		0.24	1.0	10/6/2011 11:54:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/6/2011 11:54:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/6/2011 11:54:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/6/2011 11:54:00 PM
Toluene	ND	µg/L		0.17	1.0	10/6/2011 11:54:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/6/2011 11:54:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/6/2011 11:54:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/6/2011 11:54:00 PM
Trichlorofluoromethane	0.5	µg/L	J	0.30	1.0	10/6/2011 11:54:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/6/2011 11:54:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	10/6/2011 11:54:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	10/6/2011 11:54:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/6/2011 11:54:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/6/2011 11:54:00 PM
Surr: 1,2-Dichloroethane-d4	104	%REC			80-120	10/6/2011 11:54:00 PM
Surr: 4-Bromofluorobenzene	100	%REC			86-115	10/6/2011 11:54:00 PM
Surr: Dibromofluoromethane	106	%REC			80-120	10/6/2011 11:54:00 PM
Surr: Toluene-d8	100	%REC			88-110	10/6/2011 11:54:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	3	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-15A
Client Sample ID:	MW-23	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 7:35:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/6/2011 11:51:24 PM
Lead	0.0005	mg/L	J	0.00020	0.0100	10/6/2011 11:51:24 PM
Nickel	0.0026	mg/L	J	0.00200	0.0500	10/6/2011 11:51:24 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 12:54:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 12:54:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 12:54:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 12:54:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 12:54:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 12:54:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 12:54:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 12:54:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 12:54:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 12:54:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 12:54:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 12:54:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 12:54:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 12:54:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 12:54:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 12:54:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 12:54:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 12:54:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 12:54:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 12:54:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 12:54:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 12:54:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 12:54:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 12:54:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 12:54:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 12:54:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 12:54:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 12:54:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 12:54:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 12:54:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 12:54:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 12:54:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-15A
Client Sample ID:	MW-23	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 7:35:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 12:54:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 12:54:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 12:54:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 12:54:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 12:54:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 12:54:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 12:54:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 12:54:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 12:54:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 12:54:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 12:54:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 12:54:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 12:54:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 12:54:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 12:54:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 12:54:00 AM
Surr: 1,2-Dichloroethane-d4	105	%REC			80-120	10/5/2011 12:54:00 AM
Surr: 4-Bromofluorobenzene	99.3	%REC			86-115	10/5/2011 12:54:00 AM
Surr: Dibromofluoromethane	110	%REC			80-120	10/5/2011 12:54:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 12:54:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	522	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-16A
Client Sample ID:	MW-24	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 10:13:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0020	mg/L	J	0.00100	0.0100	10/6/2011 11:57:17 PM
Lead	0.0006	mg/L	J	0.00020	0.0100	10/6/2011 11:57:17 PM
Nickel	0.0032	mg/L	J	0.00200	0.0500	10/6/2011 11:57:17 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 1:26:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 1:26:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 1:26:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 1:26:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 1:26:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 1:26:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 1:26:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 1:26:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 1:26:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 1:26:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 1:26:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 1:26:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 1:26:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 1:26:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 1:26:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 1:26:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 1:26:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 1:26:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 1:26:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 1:26:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 1:26:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 1:26:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 1:26:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 1:26:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 1:26:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 1:26:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 1:26:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 1:26:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 1:26:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 1:26:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 1:26:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 1:26:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-16A
Client Sample ID:	MW-24	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 10:13:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 1:26:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 1:26:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 1:26:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 1:26:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 1:26:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 1:26:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 1:26:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 1:26:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 1:26:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 1:26:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 1:26:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 1:26:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 1:26:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 1:26:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 1:26:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 1:26:00 AM
Surr: 1,2-Dichloroethane-d4	107	%REC			80-120	10/5/2011 1:26:00 AM
Surr: 4-Bromofluorobenzene	99.0	%REC			86-115	10/5/2011 1:26:00 AM
Surr: Dibromofluoromethane	113	%REC			80-120	10/5/2011 1:26:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 1:26:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	802	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-17A
Client Sample ID:	MW-24D	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 10:18:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0018	mg/L	J	0.00100	0.0100	10/7/2011 12:03:09 AM
Lead	ND	mg/L		0.00020	0.0100	10/7/2011 12:03:09 AM
Nickel	0.0024	mg/L	J	0.00200	0.0500	10/7/2011 12:03:09 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 2:00:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 2:00:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 2:00:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 2:00:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 2:00:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 2:00:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 2:00:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 2:00:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 2:00:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 2:00:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 2:00:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 2:00:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 2:00:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 2:00:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 2:00:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 2:00:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 2:00:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 2:00:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 2:00:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 2:00:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 2:00:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 2:00:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 2:00:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 2:00:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 2:00:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 2:00:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 2:00:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:00:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:00:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 2:00:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 2:00:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 2:00:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-17A
Client Sample ID:	MW-24D	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 10:18:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 2:00:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 2:00:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 2:00:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 2:00:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 2:00:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 2:00:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 2:00:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 2:00:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 2:00:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 2:00:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 2:00:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 2:00:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 2:00:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 2:00:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 2:00:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 2:00:00 AM
Surr: 1,2-Dichloroethane-d4	105	%REC			80-120	10/5/2011 2:00:00 AM
Surr: 4-Bromofluorobenzene	99.2	%REC			86-115	10/5/2011 2:00:00 AM
Surr: Dibromofluoromethane	114	%REC			80-120	10/5/2011 2:00:00 AM
Surr: Toluene-d8	101	%REC			88-110	10/5/2011 2:00:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	78	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-18A
Client Sample ID:	OW-1	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 8:41:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/7/2011 12:09:03 AM
Lead	0.0008	mg/L	J	0.00020	0.0100	10/7/2011 12:09:03 AM
Nickel	0.0022	mg/L	J	0.00200	0.0500	10/7/2011 12:09:03 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 2:33:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 2:33:00 AM
Benzene	5.3	µg/L		0.13	1.0	10/5/2011 2:33:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 2:33:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 2:33:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 2:33:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 2:33:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 2:33:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 2:33:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 2:33:00 AM
Chlorobenzene	2.3	µg/L	J	0.18	3.0	10/5/2011 2:33:00 AM
Chloroethane	9.1	µg/L	J	0.94	10	10/5/2011 2:33:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 2:33:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 2:33:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 2:33:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 2:33:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 2:33:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 2:33:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 2:33:00 AM
1,4-Dichlorobenzene	1.0	µg/L		0.29	1.0	10/5/2011 2:33:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 2:33:00 AM
1,1-Dichloroethane	53.1	µg/L		3.83	50.0	10/6/2011 5:48:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 2:33:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 2:33:00 AM
cis-1,2-Dichloroethene	43.5	µg/L	J	2.26	50.0	10/6/2011 5:48:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 2:33:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 2:33:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:33:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:33:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 2:33:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 2:33:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 2:33:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-18A
Client Sample ID:	OW-1	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 8:41:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	1.6	µg/L		0.54	1.0	10/5/2011 2:33:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 2:33:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 2:33:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 2:33:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 2:33:00 AM
Tetrachloroethene	4.5	µg/L		0.20	1.0	10/5/2011 2:33:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 2:33:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 2:33:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 2:33:00 AM
Trichloroethene	9.3	µg/L		0.30	1.0	10/5/2011 2:33:00 AM
Trichlorofluoromethane	0.8	µg/L	J	0.30	1.0	10/5/2011 2:33:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 2:33:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 2:33:00 AM
Vinyl chloride	10.9	µg/L		0.22	1.0	10/5/2011 2:33:00 AM
o-Xylene	5.6	µg/L		0.19	1.0	10/5/2011 2:33:00 AM
m,p-Xylene	4.4	µg/L		0.29	2.0	10/5/2011 2:33:00 AM
Surr: 1,2-Dichloroethane-d4	103	%REC			80-120	10/5/2011 2:33:00 AM
Surr: 4-Bromofluorobenzene	97.8	%REC			86-115	10/5/2011 2:33:00 AM
Surr: Dibromofluoromethane	111	%REC			80-120	10/5/2011 2:33:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 2:33:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	28	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-19A
Client Sample ID:	CR-1	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:40:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/7/2011 12:14:55 AM
Lead	ND	mg/L		0.00020	0.0100	10/7/2011 12:14:55 AM
Nickel	ND	mg/L		0.00200	0.0500	10/7/2011 12:14:55 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 3:06:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 3:06:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 3:06:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 3:06:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 3:06:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 3:06:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 3:06:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 3:06:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 3:06:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 3:06:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 3:06:00 AM
Chloroethane	2.0	µg/L	J	0.94	10	10/5/2011 3:06:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 3:06:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 3:06:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 3:06:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 3:06:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 3:06:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 3:06:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 3:06:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 3:06:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 3:06:00 AM
1,1-Dichloroethane	3.5	µg/L	J	0.38	5.0	10/5/2011 3:06:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 3:06:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 3:06:00 AM
cis-1,2-Dichloroethene	0.5	µg/L	J	0.23	5.0	10/5/2011 3:06:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 3:06:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 3:06:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:06:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:06:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 3:06:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 3:06:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 3:06:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-19A
Client Sample ID:	CR-1	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:40:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 3:06:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 3:06:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 3:06:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 3:06:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 3:06:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 3:06:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 3:06:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 3:06:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 3:06:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 3:06:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 3:06:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 3:06:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 3:06:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 3:06:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 3:06:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 3:06:00 AM
Surr: 1,2-Dichloroethane-d4	108	%REC			80-120	10/5/2011 3:06:00 AM
Surr: 4-Bromofluorobenzene	100	%REC			86-115	10/5/2011 3:06:00 AM
Surr: Dibromofluoromethane	113	%REC			80-120	10/5/2011 3:06:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 3:06:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	3	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-20A
Client Sample ID:	SW-2	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:29:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/7/2011 12:20:49 AM
Lead	ND	mg/L		0.00020	0.0100	10/7/2011 12:20:49 AM
Nickel	ND	mg/L		0.00200	0.0500	10/7/2011 12:20:49 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 3:39:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 3:39:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 3:39:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 3:39:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 3:39:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 3:39:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 3:39:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 3:39:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 3:39:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 3:39:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 3:39:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 3:39:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 3:39:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 3:39:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 3:39:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 3:39:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 3:39:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 3:39:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 3:39:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 3:39:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 3:39:00 AM
1,1-Dichloroethane	1.2	µg/L	J	0.38	5.0	10/5/2011 3:39:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 3:39:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 3:39:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 3:39:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 3:39:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 3:39:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:39:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:39:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 3:39:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 3:39:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 3:39:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-20A
Client Sample ID:	SW-2	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:29:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 3:39:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 3:39:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 3:39:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 3:39:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 3:39:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 3:39:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 3:39:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 3:39:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 3:39:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 3:39:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 3:39:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 3:39:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 3:39:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 3:39:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 3:39:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 3:39:00 AM
Surr: 1,2-Dichloroethane-d4	107	%REC			80-120	10/5/2011 3:39:00 AM
Surr: 4-Bromofluorobenzene	98.9	%REC			86-115	10/5/2011 3:39:00 AM
Surr: Dibromofluoromethane	112	%REC			80-120	10/5/2011 3:39:00 AM
Surr: Toluene-d8	100	%REC			88-110	10/5/2011 3:39:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	1	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-21A
Client Sample ID:	MW-23 DUPLICATE	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 7:35:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/6/2011 7:10:00 PM
Lead	0.0011	mg/L	J	0.00020	0.0100	10/6/2011 7:10:00 PM
Nickel	0.0022	mg/L	J	0.00200	0.0500	10/6/2011 7:10:00 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 4:13:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 4:13:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 4:13:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 4:13:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 4:13:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 4:13:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 4:13:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 4:13:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 4:13:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 4:13:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 4:13:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 4:13:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 4:13:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 4:13:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 4:13:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 4:13:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 4:13:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 4:13:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 4:13:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 4:13:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 4:13:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 4:13:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 4:13:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 4:13:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 4:13:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 4:13:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 4:13:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 4:13:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 4:13:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 4:13:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 4:13:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 4:13:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-21A
Client Sample ID:	MW-23 DUPLICATE	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 7:35:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 4:13:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 4:13:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 4:13:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 4:13:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 4:13:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 4:13:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 4:13:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 4:13:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 4:13:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 4:13:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 4:13:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 4:13:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 4:13:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 4:13:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 4:13:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 4:13:00 AM
Surr: 1,2-Dichloroethane-d4	106	%REC			80-120	10/5/2011 4:13:00 AM
Surr: 4-Bromofluorobenzene	98.3	%REC			86-115	10/5/2011 4:13:00 AM
Surr: Dibromofluoromethane	112	%REC			80-120	10/5/2011 4:13:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 4:13:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	470	mg/L		1.0	1	10/1/2011 12:14:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-22A
Client Sample ID:	MW-16A DUPLICATE	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:51:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/6/2011 7:27:33 PM
Lead	ND	mg/L		0.00020	0.0100	10/6/2011 7:27:33 PM
Nickel	ND	mg/L		0.00200	0.0500	10/6/2011 7:27:33 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/4/2011 5:40:00 PM
Acrylonitrile	ND	µg/L		4.24	200	10/4/2011 5:40:00 PM
Benzene	0.3	µg/L	J	0.13	1.0	10/4/2011 5:40:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	10/4/2011 5:40:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/4/2011 5:40:00 PM
Bromoform	ND	µg/L		0.40	3.0	10/4/2011 5:40:00 PM
Bromomethane	ND	µg/L		0.50	10	10/4/2011 5:40:00 PM
2-Butanone	ND	µg/L		4.68	100	10/4/2011 5:40:00 PM
Carbon disulfide	ND	µg/L		1.27	100	10/4/2011 5:40:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/4/2011 5:40:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	10/4/2011 5:40:00 PM
Chloroethane	ND	µg/L		0.94	10	10/4/2011 5:40:00 PM
Chloroform	ND	µg/L		0.25	5.0	10/4/2011 5:40:00 PM
Chloromethane	ND	µg/L		0.33	1.0	10/4/2011 5:40:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/4/2011 5:40:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/4/2011 5:40:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/4/2011 5:40:00 PM
Dibromomethane	ND	µg/L		0.29	10	10/4/2011 5:40:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/4/2011 5:40:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/4/2011 5:40:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/4/2011 5:40:00 PM
1,1-Dichloroethane	40.0	µg/L		3.83	10	10/6/2011 4:04:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/4/2011 5:40:00 PM
1,1-Dichloroethene	2.3	µg/L	J	0.33	5.0	10/4/2011 5:40:00 PM
cis-1,2-Dichloroethene	42.6	µg/L		2.26	10	10/6/2011 4:04:00 PM
trans-1,2-Dichloroethene	0.6	µg/L	J	0.39	5.0	10/4/2011 5:40:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/4/2011 5:40:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/4/2011 5:40:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/4/2011 5:40:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/4/2011 5:40:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	10/4/2011 5:40:00 PM
Iodomethane	ND	µg/L		3.44	10	10/4/2011 5:40:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-22A
Client Sample ID:	MW-16A DUPLICATE	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:51:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/4/2011 5:40:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/4/2011 5:40:00 PM
Styrene	ND	µg/L		0.24	1.0	10/4/2011 5:40:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/4/2011 5:40:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/4/2011 5:40:00 PM
Tetrachloroethene	1.3	µg/L		0.20	1.0	10/4/2011 5:40:00 PM
Toluene	ND	µg/L		0.17	1.0	10/4/2011 5:40:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/4/2011 5:40:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/4/2011 5:40:00 PM
Trichloroethene	15.6	µg/L		0.30	1.0	10/4/2011 5:40:00 PM
Trichlorofluoromethane	11.6	µg/L		0.30	1.0	10/4/2011 5:40:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/4/2011 5:40:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	10/4/2011 5:40:00 PM
Vinyl chloride	3.3	µg/L		0.22	1.0	10/4/2011 5:40:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/4/2011 5:40:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/4/2011 5:40:00 PM
Surr: 1,2-Dichloroethane-d4	98.3	%REC			80-120	10/4/2011 5:40:00 PM
Surr: 4-Bromofluorobenzene	99.3	%REC			86-115	10/4/2011 5:40:00 PM
Surr: Dibromofluoromethane	111	%REC			80-120	10/4/2011 5:40:00 PM
Surr: Toluene-d8	101	%REC			88-110	10/4/2011 5:40:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	4	mg/L		1.0	1	10/1/2011 12:14:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-23A
Client Sample ID:	MW-7A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 2:49:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0037	mg/L	J	0.00100	0.0100	10/6/2011 7:45:10 PM
Lead	0.0004	mg/L	J	0.00020	0.0100	10/6/2011 7:45:10 PM
Nickel	0.0030	mg/L	J	0.00200	0.0500	10/6/2011 7:45:10 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 5:19:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 5:19:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 5:19:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 5:19:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 5:19:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 5:19:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 5:19:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 5:19:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 5:19:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 5:19:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 5:19:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 5:19:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 5:19:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 5:19:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 5:19:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 5:19:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 5:19:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 5:19:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 5:19:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 5:19:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 5:19:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 5:19:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 5:19:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 5:19:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 5:19:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 5:19:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 5:19:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:19:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:19:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 5:19:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 5:19:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 5:19:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-23A
Client Sample ID:	MW-7A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 2:49:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 5:19:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 5:19:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 5:19:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 5:19:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 5:19:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 5:19:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 5:19:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 5:19:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 5:19:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 5:19:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 5:19:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 5:19:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 5:19:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 5:19:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 5:19:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 5:19:00 AM
Surr: 1,2-Dichloroethane-d4	104	%REC			80-120	10/5/2011 5:19:00 AM
Surr: 4-Bromofluorobenzene	98.4	%REC			86-115	10/5/2011 5:19:00 AM
Surr: Dibromofluoromethane	112	%REC			80-120	10/5/2011 5:19:00 AM
Surr: Toluene-d8	101	%REC			88-110	10/5/2011 5:19:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	22	mg/L		1.0	1	10/1/2011 12:14:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-24A
Client Sample ID:	MW-18	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 3:38:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0020	mg/L	J	0.00100	0.0100	10/6/2011 7:51:03 PM
Lead	ND	mg/L		0.00020	0.0100	10/6/2011 7:51:03 PM
Nickel	ND	mg/L		0.00200	0.0500	10/6/2011 7:51:03 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 5:52:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 5:52:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 5:52:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 5:52:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 5:52:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 5:52:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 5:52:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 5:52:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 5:52:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 5:52:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 5:52:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 5:52:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 5:52:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 5:52:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 5:52:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 5:52:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 5:52:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 5:52:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 5:52:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 5:52:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 5:52:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 5:52:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 5:52:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 5:52:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 5:52:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 5:52:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 5:52:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:52:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:52:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 5:52:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 5:52:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 5:52:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-24A
Client Sample ID:	MW-18	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 3:38:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 5:52:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 5:52:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 5:52:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 5:52:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 5:52:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 5:52:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 5:52:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 5:52:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 5:52:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 5:52:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 5:52:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 5:52:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 5:52:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 5:52:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 5:52:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 5:52:00 AM
Surr: 1,2-Dichloroethane-d4	104	%REC			80-120	10/5/2011 5:52:00 AM
Surr: 4-Bromofluorobenzene	98.8	%REC			86-115	10/5/2011 5:52:00 AM
Surr: Dibromofluoromethane	110	%REC			80-120	10/5/2011 5:52:00 AM
Surr: Toluene-d8	103	%REC			88-110	10/5/2011 5:52:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	ND	mg/L		1.0	1	10/1/2011 12:14:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-25A
Client Sample ID:	MW-18 DUPLICATE	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 3:38:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Chromium	0.0021	mg/L	J	0.00100	0.0100	10/10/2011 5:11:03 PM
Lead	ND	mg/L		0.00020	0.0100	10/10/2011 5:11:03 PM
Nickel	ND	mg/L		0.00200	0.0500	10/10/2011 5:11:03 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/4/2011 4:56:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/4/2011 4:56:00 AM
Benzene	ND	µg/L		0.13	1.0	10/4/2011 4:56:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/4/2011 4:56:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/4/2011 4:56:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/4/2011 4:56:00 AM
Bromomethane	ND	µg/L		0.50	10	10/4/2011 4:56:00 AM
2-Butanone	ND	µg/L		4.68	100	10/4/2011 4:56:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/4/2011 4:56:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/4/2011 4:56:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/4/2011 4:56:00 AM
Chloroethane	ND	µg/L		0.94	10	10/4/2011 4:56:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/4/2011 4:56:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/4/2011 4:56:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/4/2011 4:56:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/4/2011 4:56:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/4/2011 4:56:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/4/2011 4:56:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/4/2011 4:56:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/4/2011 4:56:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/4/2011 4:56:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/4/2011 4:56:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/4/2011 4:56:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/4/2011 4:56:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/4/2011 4:56:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/4/2011 4:56:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/4/2011 4:56:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/4/2011 4:56:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/4/2011 4:56:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/4/2011 4:56:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/4/2011 4:56:00 AM
Iodomethane	ND	µg/L		3.44	10	10/4/2011 4:56:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-25A
Client Sample ID:	MW-18 DUPLICATE	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 3:38:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/4/2011 4:56:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/4/2011 4:56:00 AM
Styrene	ND	µg/L		0.24	1.0	10/4/2011 4:56:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/4/2011 4:56:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/4/2011 4:56:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/4/2011 4:56:00 AM
Toluene	ND	µg/L		0.17	1.0	10/4/2011 4:56:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/4/2011 4:56:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/4/2011 4:56:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/4/2011 4:56:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/4/2011 4:56:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/4/2011 4:56:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/4/2011 4:56:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/4/2011 4:56:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/4/2011 4:56:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/4/2011 4:56:00 AM
Surr: 1,2-Dichloroethane-d4	102	%REC			80-120	10/4/2011 4:56:00 AM
Surr: 4-Bromofluorobenzene	98.8	%REC			86-115	10/4/2011 4:56:00 AM
Surr: Dibromofluoromethane	110	%REC			80-120	10/4/2011 4:56:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/4/2011 4:56:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	2	mg/L		1.0	1	10/1/2011 12:14:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-26A
Client Sample ID:	TRIP BLANK	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011		
Site ID:	CATAWBA CO NC	**Matrix:**	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 6:25:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 6:25:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 6:25:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 6:25:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 6:25:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 6:25:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 6:25:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 6:25:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 6:25:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 6:25:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 6:25:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 6:25:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 6:25:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 6:25:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 6:25:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 6:25:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 6:25:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 6:25:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 6:25:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 6:25:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 6:25:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 6:25:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 6:25:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 6:25:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 6:25:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 6:25:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 6:25:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 6:25:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 6:25:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 6:25:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 6:25:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 6:25:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 6:25:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 6:25:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 6:25:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 6:25:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 6:25:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-26A
Client Sample ID:	TRIP BLANK	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011		
Site ID:	CATAWBA CO NC	**Matrix:**	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 6:25:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 6:25:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 6:25:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 6:25:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 6:25:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 6:25:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 6:25:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 6:25:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 6:25:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 6:25:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 6:25:00 AM
Surr: 1,2-Dichloroethane-d4	103	%REC			80-120	10/5/2011 6:25:00 AM
Surr: 4-Bromofluorobenzene	98.5	%REC			86-115	10/5/2011 6:25:00 AM
Surr: Dibromofluoromethane	112	%REC			80-120	10/5/2011 6:25:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 6:25:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CHAIN OF CUSTODY RECORD

v5-1109 REIC use ONLY CLIENT ID _____ DATE _____ SHEET 1 OF 3

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606-393-5027

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1557 Commerce Rd., Ste. 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

Client: CATAWBA CO N.C PO # _____
Contact Person RODNEY HAMBY Phone 704-462-1348
Address PO BOX 389 City NEWTON State NC Zip 28658
Billing Address (if different) _____
City NEWTON State NC Zip 28658
Site ID & State CATAWBA CO N.C Project ID NEWTON Sampler R.Farley/ A.Mcbride/B.Shirley

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: (•) NORMAL ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY
RUSH TURNAROUND
*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: NC APPENDIX 1 VOL; CR,PB,NI

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1	2							
MW-1	6	9-26-11 1405	GWater	Grab	✓	✓							
MW-3	6	9-27-11 0809	GWater	Grab	✓	✓							
MW-9	6	9-26-11 1230	GWater	Grab	✓	✓							
MW-10A	6	9-26-11 1340	GWater	Grab	✓	✓							
MW-10B	6	9-26-11 1313	GWater	Grab	✓	✓							
MW-11	6	9-26-11 1302	GWater	Grab	✓	✓							
MW-13	6	9-27-11 1107	GWater	Grab	✓	✓							
MW-14	6	9-27-11 1325	GWater	Grab	✓	✓							
MW-14A	6	9-27-11 1311	GWater	Grab	✓	✓							

ENTER PRESERVATIVE CODE:
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

COMMENTS:
ANALYZE TSS & DIS MEATALS ON ANY TOTAL METAL DETECTIONS

All analytical requests are subject to REIC's Standard Terms and Conditions.

Temperature at arrival: 1.5°C ICED? Y ✓ N___

	Relinquished by (signature)	Date/Time	Received by (signature)	Date/Time
1	Allen McBride	9-30-11 0625	9-30-11	
2				
3				

CHAIN OF CUSTODY RECORD

v5-1109 REIC use ONLY CLIENT ID _____ DATE _____ SHEET 2 OF 3

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Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

Client: CATAWBA CO N.C PO #: _____
Contact Person: RODNEY HAMBY Phone: 704-462-1348
Address: PO BOX 389 City: NEWTON State: NC Zip: 28658
Billing Adcress (if different): _____
City: NEWTON State: NC Zip: 28658
Site ID & State: CATAWBA CO N.C Project ID: NEWTON Sampler: R.Farley/ A.Mcbride/B.Shirley

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: (•) NORMAL ( ) RUSH TURNAROUND: ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: NC APPENDIX 1 VOL; CR,PB,NI

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1	2							
MW-15	6	9-27-11 0859	GWater	Grab	✓	✓							
MW-16	6	9-27-11 1213	GWater	Grab	✓	✓							
MW-16A	6	9-27-11 1151	GWater	Grab	✓	✓							
MW-20	6	9-27-11 0906	GWater	Grab	✓	✓							
MW-21	6	9-26-11 1714	GWater	Grab	✓	✓							
MW-23	6	9-27-11 0735	GWater	Grab	✓	✓							
MW-24	6	9-27-11 1013	GWater	Grab	✓	✓							
MW-24D	6	9-27-11 1018	GWater	Grab	✓	✓							
OW-1	6	9-27-11 0841	GWater	Grab	✓	✓							

ENTER PRESERVATIVE CODE:
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

COMMENTS:
ANALYZE TSS & DIS MEATALS ON ANY TOTAL METAL DETECTIONS

All analytical requests are subject to REIC's Standard Terms and Conditions.

Temperature at arrival: 1.5 °C ICED? Y ✓ N___

1		2		3	
Relinquished by (signature): Allen McBride	Date/Time: 9-30-11 0625	Relinquished by (signature)	Date/Time	Relinquished by (signature)	Date/Time
Received by (signature):	Date/Time: 9-30-11	Received by (signature)	Date/Time	Received by (signature)	Date/Time

CHAIN OF CUSTODY RECORD

v5-1109 REIC use ONLY CLIENT ID _____ DATE _____ SHEET 3 OF 3

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540-248-0183

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3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

Client: CATAWBA CO N.C PO # _____
Contact Person: RODNEY HAMBY Phone: 704-462-1348
Address: PO BOX 389 City: NEWTON State: NC Zip: 28658
Billing Address (if different) _____
City: NEWTON State: NC Zip: 28658
Site ID & State: CATAWBA CO N.C Project ID: NEWTON Sampler: R.Farley/ A.Mcbride/B.Shirley

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: (•) NORMAL ( ) RUSH TURNAROUND: ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: NC APPENDIX 1 VOL; CR,PB,NI

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1	2							
OW-3	6	DRY	GWater	Grab	✓	✓							
CR-1	6	9-27-11 1140	GWater	Grab	✓	✓							
SW-2	6	9-27-11 1129	GWater	Grab	✓	✓							
MW- 23 DUPLICATE	18	9-27-11 0735	GWater	Grab	✓	✓							
MW- 16A DUPLICATE	18	9-27-11 1151	GWater	Grab	✓	✓							
TRIP BLANK # 4	1 VOA		Choose	Choose	✓								
MW-7A	6	9-26-11 1449	Choose	Choose									
MW-18	6	9-26-11 1538	Choose	Choose									
MW-18 Duplicate	18	9-26-11 1538	Choose	Choose									

ENTER PRESERVATIVE CODE:
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

COMMENTS:
ANALYZE TSS & DIS MEATALS ON ANY TOTAL METAL DETECTIONS

All analytical requests are subject to REIC's Standard Terms and Conditions.

Temperature at arrival: 1.1 °C ICED? Y X N__

1		2		3	
Allen McBride (Relinquished by (signature))	9-30-11 0625	Relinquished by (signature)	Date/Time	Relinquished by (signature)	Date/Time
Received by (signature)	9-30-11 0625	Received by (signature)	Date/Time	Received by (signature)	Date/Time

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix E:

Historical Summary of Detections

Historical Summary of Detections

MW-1

Monitoring Well: MW-1

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.113	0.342	0.211	0.168	0.493	0.257	0.38	0.259	0.182	0.136	0.142	0.144
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	0.0034	ND	ND	0.0018	ND	0.0019
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	0.369	6.49	1.71	1.01	1.98	2.36	3.63	2.98	2.58	1.74	1.31	1.89
15	2-Hexanone	mg/L		0.050	ND	0.151	0.105	0.080	0.104	0.237	0.115	0.099	0.079	0.066	ND	0.0606
16	4-Methyl-2-pentanone	mg/L		0.050	ND	0.424	0.183	0.095	0.158	0.16	0.255	0.318	0.298	0.192	0.173	0.239
17	Acetone	mg/L	0.7	0.050	0.371	5.94	1.46	0.547	2.18	2.43	3.35	2.31	ND	1.4	2.22	1.04
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.006	0.011	0.009	0.010	0.013	0.012	0.012	0.012	0.011	0.010	0.010	0.010
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	0.043	ND	ND	ND	ND	ND	0.25	0.145	ND	ND	ND	0.192
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.09
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	0.014	0.017	0.019	0.022	0.025	0.0221	0.020	0.019	0.015	0.010	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0038	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	0.006	ND	0.007	0.004	0.0086	0.024	0.003	0.005	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	0.066	0.323	0.599	0.194	0.461	0.195	0.372	0.312	0.329	0.441	0.476	0.568
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	0.002	0.0012	ND	ND	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	0.056	ND	ND	ND	ND	ND	ND	0.070	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	0.024	0.099	0.014	0.045	0.173	0.068	0.055	0.043	0.045	ND	0.048	0.031
47	Xylenes	mg/L	0.53	0.005	0.005	0.011	0.020	0.016	0.019	0.022	0.021	0.021	0.020	0.019	0.019	0.016
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0783

	Parameter	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	ND	0.0258	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	0.113	0.106	0.242	0.248	0.17	0.181	0.117	0.206	0.162	0.227
6	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	ND	ND	ND	0.0054	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	ND	0.0022	0.005	ND	ND	ND	ND	0.0057	ND	0.0061
13	1,4-Dichlorobenzene	ND	J	ND	0.0016	ND	ND	ND	0.0017	0.0011	0.0018
14	2-Butanone (Methyl ethyl ketone)	2.3	1.41	5.36	ND	5.4	ND	0.498	ND	9.47	13.5
15	2-Hexanone	0.0598	0.0807	0.132	0.192	0.183	0.169 J	0.103	0.189	0.110	0.172
16	4-Methyl-2-pentanone	0.225	0.187	0.491	0.581	0.718	0.857 J	0.703	1.15	0.908	1.23
17	Acetone	0.945	0.924	4.83	6.46	3.04	4.76	3.27	5.22	7.29	12.3
18	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	0.010	0.013	0.014	0.014	0.014	0.0154	0.0132	0.0141	0.0147	0.0146
20	Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	ND	ND	ND	0.0002 J	ND	ND	ND	0.0002 J	ND	0.0002 J
27	Chloroethane	0.301	0.372	0.472	0.426	0.248	0.402	0.322	0.337	0.374	0.168
28	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	ND	0.0078	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.0066	0.014	0.0209	0.0237	0.0205	0.0265	0.0159	0.0236	0.0147	0.0246
35	Iodomethane (Methyl iodide)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	ND	ND	0.0207	0.026	0.0128	0.0119	0.0066	0.0164	0.0129	0.0206
37	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Toluene	0.453	0.232	0.527	0.566	0.239	0.25	0.185	0.293	0.171	0.195
40	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	ND	ND	ND	0.0005 J	ND	ND	ND	ND	ND	ND
44	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0041
45	Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	ND	ND	ND	0.028	0.023	0.0221	0.0213	ND	0.0210	0.0171
47	Xylenes	0.018	ND	0.031	0.033	0.029	0.0172	0.0259	0.0386	0.0276	0.0399
48	Chromium	J	J	0.0037 J	0.0038 J	0.0025 J	0.0030 J	.0021 J	.0033 J	0.0062 J	0.0054 J
49	Lead	ND	ND	0.0004 J	0.0004 J	ND	0.0005 J	ND	ND	ND	ND
50	Nickel	J	J	0.0258	0.0401 J	0.0313 J	0.0423 J	.0349 J	.0442 J	0.0485 J	0.0506

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-3

Monitoring Well: MW-3

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.005	0.007	0.006	0.012	0.005	ND	0.0306	0.029	0.029	0.041	0.026	0.0278
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	0.041	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.001	ND	0.0015
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	0.001	0.001	0.0042	0.003	0.003	0.0044	0.0018	0.0017
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	0.0019	0.0018	0.002	0.0030	0.0022	0.0034
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	0.016	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	0.0056
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

	Parameter	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	ND	ND	ND	0.0576 J	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	0.0296	0.0351	0.0336	0.0406	0.0248	0.0277	0.006	0.005	0.0292	0.0338	0.0410	0.0504
6	1,1-Dichloroethene	J	J	0.0042 J	0.0036 J	0.0044 J	0.0039 J	0.007	0.005	0.0041 J	.0027 J	0.0032 J	0.0027 J
7	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	0.0006 J
14	2-Butanone (Methyl ethyl ketone)	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	0.0587
15	2-Hexanone	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	0.0144 J
17	Acetone	ND	ND	ND	ND	ND	0.0072 J	6	0.100	ND	ND	0.0154 J	0.0999
18	Acrylonitrile	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	0.0011	0.0015	0.0012	0.0012	0.001	0.0011	0.001	0.001	0.0012	0.0019	0.0021	0.0020
20	Bromochloromethane	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	ND	ND	ND	0.0007 J	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	0.003	J	ND	0.0036 J	0.0027 J	0.0023 J	3.00	0.010	ND	.0030 J	0.0039 J	0.0072 J
28	Chloroform	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	ND	J	ND	0.0007 J	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	J	J	0.0005 J	0.0008 J	0.0006 J	0.0006 J	0.07	0.005	0.0006 J	.0017 J	0.0022 J	0.0024 J
31	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	ND	ND	ND	0.004	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	ND	ND	ND	0.0006 J	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	0.0002 J
35	Iodomethane (Methyl iodide)	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	0.0021	0.0061	0.0008 J	ND	ND	0.0048	0.005	0.001	0.0173	0.0029	0.0021	0.0009 J
37	Styrene	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	0.0018	0.0036	0.003	0.0028	0.0024	0.0018	0.0007	0.001	0.0009 J	0.0023	0.0028	0.0033
39	Toluene	ND	ND	ND	0.0006 J	ND	ND	0.6	0.001	ND	.0004 J	0.0005 J	0.0008 J
40	trans-1,2-Dichloroethene	ND	ND	ND	0.003 J	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	0.0031	0.0040	0.0041	0.0043	0.0042	0.0032	0.003	0.001	0.003	0.0038	0.0049	0.0048
44	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0016
45	Vinyl acetate	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	ND	ND	ND	0.0011	0.001 J	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	0.0049	0.0079	0.0056	0.0064	0.0061	0.0051	0.5	0.005	0.006	0.0079	0.0097 J	0.0125
48	Chromium	J	ND	0.0029 J	0.0015 J	0.0011 J	ND	0.01	0.010	ND	.0010 J	0.0019 J	0.0011 J
49	Lead	J	J	0.0035 J	0.0043 J	0.0023 J	0.0010 J	0.015	0.010	0.0014 J	.0014 J	0.0014 J	0.0013 J
50	Nickel	J	J	0.0063 J	0.0055 J	0.0044 J	0.0040 J	0.1	0.050	0.0062 J	.0051 J	0.0056 J	0.0068 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-7A

Monitoring Well: MW-7A

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND				0.005	ND			ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.2	0.001	ND			ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND				0.003	ND			ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND				0.001	ND			ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.006	0.005	ND			ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.007	0.005	ND			ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0000050	0.001	ND			ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00004	0.013	ND			ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00002	0.001	ND			ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.02	0.005	ND			ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0006	0.001	ND			ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.006	0.001	ND			ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			4.00	0.100	ND			ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			ND				0.050	ND			ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND				0.100	ND			ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			6	0.100	ND			ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.200	ND			ND				0.200	ND			ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.001	0.001	ND			ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND				0.003	ND			ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0006	0.001	ND			ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.004	0.003	ND			ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND				0.010	ND			ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			0.7	0.100	ND			ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0003	0.001	ND			ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.05	0.003	ND			ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND			3.00	0.010	ND			ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.07	0.005	ND			ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.003	0.001	ND			ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.07	0.005	ND			ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.003	ND			ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND				0.001	ND			ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.600	0.001	ND			ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND				0.010	ND			ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.005	0.001	ND			ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.07	0.001	ND			ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0007	0.001	ND			ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.6	0.001	ND			ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.10	0.005	ND			ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND				0.100	ND			ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.003	0.001	ND			ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			2	0.001	ND			ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			ND				0.050	ND			ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00003	0.001	ND			ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.5	0.005	ND			ND
48	Chromium	mg/L	0.05	0.010	0.015	ND	ND	ND	ND	ND	ND			ND			0.010	J			0.0151			0.01	0.010	0.0041 J			0.0037 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			0.0013 J			0.015	0.010	0.0006 J			0.0004 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			0.0085 J			0.1	0.050	0.0025 J			0.0030 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-9

Monitoring Well: MW-9

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.285	0.213	0.166	0.196	0.524	0.161	0.458	0.313	0.264	0.288	ND	0.432
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	0.008	0.008	0.009	0.006	0.022	0.027	0.0204	0.025	0.018	0.0122	ND	0.0226
12	1,2-Dichloropropane	mg/L	0.00051	0.001	0.037	0.022	0.036	0.025	0.071	0.036	0.0415	0.038	0.034	0.0278	0.0386	0.0376
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	0.005	ND	ND	ND	0.010	ND	ND	ND	ND	ND	0.0054	0.0060
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	0.139	0.414	0.305	0.435	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	0.068	0.064	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	0.07	0.2	0.127	0.158	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.01	0.007	0.0086	0.007	0.018	0.005	0.0065	0.007	0.008	0.008	0.011	0.014
20	Bromochloromethane	mg/L		0.005	ND	ND	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	0.0225	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0012	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.193	0.118	0.139	0.133	0.233	0.087	0.0861	0.097	0.158	0.160	0.245	0.279
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	0.008	0.011	0.019	ND	ND	ND	0.008	0.006	0.0124	0.0094
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	1.33	0.071	0.100	ND	1.040	0.824	1.840	0.159	0.160	0.006	0.132	0.007
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.009	ND	ND	ND	0.019	0.022	0.0224	0.015	0.021	0.0184	0.0116	0.0094
39	Toluene	mg/L	1.0	0.005	0.182	0.138	0.312	0.391	1.15	0.021	0.0836	0.078	0.109	0.075	0.153	0.0906
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.066	0.028	0.045	0.089	0.061	0.030	0.044	0.035	0.047	0.0351	0.0350	0.0261
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.005	ND	ND	0.011	ND	ND	ND	ND	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	0.007	0.015	0.015	0.007	0.0158	0.010	0.016	0.0242	0.0161	0.0222
47	Xylenes	mg/L	0.53	0.005	0.060	0.054	0.068	0.071	0.099	0.012	0.019	0.021	0.043	0.038	0.077	0.070
48	Chromium	mg/L	0.05	0.010	0.032	0.076	0.0198	ND	0.034	0.047	0.0361	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	0.019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	0.121	0.105	0.0853	ND	0.254	0.341	0.294	0.210	0.230	0.254	0.626	0.646

	Parameter	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	0.001	0.458	0.359	0.340	0.516	0.508	0.505	0.006	0.005	0.443	0.511	0.476	0.434
6	1,1-Dichloroethene	0.005	ND	J	ND	0.0035 J	0.0007 J	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	0.0808	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	0.001	ND	0.0258	0.0105	ND	ND	0.0583	0.0004	0.001	ND	0.103	0.0857	0.0691
12	1,2-Dichloropropane	0.001	0.0446	0.0511	0.040	0.0478	0.054	0.0466	0.0006	0.001	0.0483	0.0458	0.0419	0.0289
13	1,4-Dichlorobenzene	0.001	0.0082	0.0079	0.0063	0.0099	ND	0.0104	0.006	0.001	0.0092	0.0107	0.0083	0.0095
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	0.0701	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	0.001	0.014	0.013	0.0124	0.0162	0.0143	0.016	0.001	0.001	0.0184	0.0152	0.0204	0.0154
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	0.003	ND	J	0.0019 J	0.0015 J	0.0014	0.0015 J	0.05	0.003	0.0014 J	.0016 J	0.0014 J	0.0015 J
27	Chloroethane	0.010	ND	ND	ND	0.0044 J	0.0027	ND	3.00	0.010	0.0026 J	.0028 J	0.0031 J	0.0033 J
28	Chloroform	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	0.005	0.330	0.118	0.0055	0.205	0.167	0.154	0.07	0.005	0.454	0.244	0.437	0.175
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	0.001	0.0108	0.0048	0.0072	0.017	0.0089	0.00138	0.600	0.001	0.032	0.0115	0.0134	0.0065
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	0.001	0.021	0.004	ND	0.0073	0.0093	0.0047	0.005	0.001	0.0268	0.0086	0.0102	0.0069
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	0.001	0.0057	0.0077	0.0068	0.0128	0.0162	0.0014	0.0007	0.001	0.0026	0.0013	0.0008 J	0.0006 J
39	Toluene	0.001	0.058	0.0434	0.152	0.0527	0.0141	0.0238	0.6	0.001	0.0832	0.0516	0.0902	0.0313
40	trans-1,2-Dichloroethene	0.005	J	J	ND	0.005 J	0.0055	0.0046 J	0.10	0.005	0.0066	0.0073	0.0065	0.0088
41	trans-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	0.001	0.0253	0.0166	ND	0.0186	0.0177	0.0117	0.003	0.001	0.0151	0.0031	0.0040	0.0020
44	Trichlorofluoromethane	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0024
45	Vinyl acetate	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	0.001	0.0190	0.2500	0.0144	0.0923	0.143	0.439	0.00003	0.001	0.049	0.141	0.133	0.0823
47	Xylenes	0.003	0.079	0.044	0.0593	0.1019	0.0537	0.0371	0.5	0.005	0.1371	0.0567	0.0726	0.0493
48	Chromium	0.010	J	J	0.0095 J	0.0157	0.0119	0.032	0.01	0.010	0.0034 J	.0032 J	0.0495	0.0052 J
49	Lead	0.010	J	J	0.0019 J	0.0056 J	0.0030 J	0.0064 J	0.015	0.010	0.0006 J	.0012 J	0.0041 J	0.0014 J
50	Nickel	0.050	0.638	0.340	0.143	0.342	0.343	0.212	0.1	0.050	0.319	0.221	0.328	0.195

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-10A

Monitoring Well: MW-10A

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	0.108	0.054	0.067	0.225	0.319	0.561	0.209	0.252	0.294	0.378	0.386
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.073	ND	ND	ND	ND	0.005	0.0052	ND	0.006	0.0075	0.0075	0.0066
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	0.005	0.007	0.006	0.006	0.007	0.009	0.008	0.007	0.009	0.0074	ND	0.0074
12	1,2-Dichloropropane	mg/L	0.00051	0.001	0.005	0.008	0.006	0.006	0.015	0.027	0.0327	0.027	0.031	0.0303	0.0295	0.0318
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	0.0052	ND	0.005	0.005	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	0.003	0.006	0.0064	0.005	0.007	0.007	0.008	0.008
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.047	0.06	0.041	0.042	0.069	0.092	0.0897	0.099	0.117	0.112	0.124	0.134
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	0.007	0.021	0.007	0.003	0.001	0.002	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.005	ND	ND	ND	0.006	0.011	0.0111	0.005	0.007	0.0083	0.006	0.005
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.011	0.006	0.012	0.007	0.025	0.062	0.0457	0.019	0.021	0.0208	0.023	0.013
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.018	0.024	0.023	0.015	0.006	0.016	0.0125	0.007	0.014	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	0.0112	0.005	0.009	0.0162	0.0152	0.0158
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	0.048	0.021	0.0161	0.023	0.017	0.046	0.0958	0.043	ND	ND	0.01	0.0274
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	0.072	ND	ND	ND	ND	ND	ND

	Parameter	GW Std.	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane		0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.2	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane		0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane		0.005	ND	ND	ND	ND	ND	ND		0.001	ND	.0006 J	ND	ND
5	1,1-Dichloroethane	0.07	0.001	0.358	0.242	0.156	0.156	0.187	0.242	0.006	0.005	0.353	0.444	0.372	0.177
6	1,1-Dichloroethene	0.007	0.005	0.0063	0.0074	0.0049 J	0.0036 J	0.0029 J	0.0018 J	0.007	0.005	.0015 J	.0010 J	ND	ND
7	1,2,3-Trichloropropane	0.0000050	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.000025	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	0.0000004	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.024	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	0.008	ND	ND	ND
11	1,2-Dichloroethane	0.00038	0.001	ND	0.0106	0.010	0.0086	ND	0.078	0.0004	0.001	ND	0.0102	0.0107	0.0087
12	1,2-Dichloropropane	0.00051	0.001	0.0305	0.026	0.0174	0.0151	0.0167	0.0225	0.0006	0.001	0.0296	0.0333	0.0252	0.0225
13	1,4-Dichlorobenzene	0.0014	0.001	0.0054	0.0066	0.0044	0.0041	0.0048	0.0053	0.006	0.001	0.0058	0.0081	0.0061	0.0078
14	2-Butanone (Methyl ethyl ketone)	4.20	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone		0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone		0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	0.7	0.100	ND	ND	ND	ND	ND	0.0068	6	0.100	ND	ND	ND	ND
18	Acrylonitrile		0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	0.001	0.001	0.008	0.009	0.0063	0.0055	0.0066	ND	0.001	0.001	0.008	0.0081	0.0081	0.0067
20	Bromochloromethane		0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	0.00056	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	0.00443	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)		0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	0.7	0.100	ND	ND	0.0044 J	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	0.000269	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	0.05	0.003	J	J	0.0011 J	0.001 J	0.0011 J	0.0009 J	0.05	0.003	.001 J	.0011 J	0.0010 J	0.0011 J
27	Chloroethane	2.80	0.010	J	J	ND	0.0013 J	0.0016	0.0021 J	3.00	0.010	.0025 J	.0025 J	0.0030 J	0.0023 J
28	Chloroform	0.07	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.0026	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	0.07	0.005	0.114	0.12	0.101	0.0861	0.0823	0.0606	0.07	0.005	0.0585	0.0438	0.0108	0.0061
31	cis-1,3-Dichloropropene	0.00019	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane		0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)		0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	0.550	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)		0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	0.0046	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	.0007 J	ND	ND
37	Styrene	0.1	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	0.0007	0.001	0.009	0.008	0.0053	0.0057	0.0067	0.003	0.0007	0.001	0.0051	0.0031	0.0017	0.0013
39	Toluene	1.0	0.001	ND	ND	ND	0.0003 J	0.0003 J	0.0004 J	0.6	0.001	.0004 J	.0005 J	0.0017	0.0004 J
40	trans-1,2-Dichloroethene	0.10	0.005	ND	ND	0.0021 J	0.0012 J	0.0016 J	0.0014 J	0.10	0.005	.0017 J	.0022 J	0.0017 J	0.0014 J
41	trans-1,3-Dichloropropene	0.00019	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	.0003 J	ND	ND
42	trans-1,4-Dichloro-2-butene		0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	0.0028	0.001	0.015	0.009	0.0022	0.0018	0.0036	0.0054	0.003	0.001	0.0074	0.0048	0.0010	0.0004 J
44	Trichlorofluoromethane	2.1	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0019
45	Vinyl acetate		0.050	ND	0.0191	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	0.000015	0.001	0.0146	ND	0.0137	0.0355	0.0608	0.0705	0.00003	0.001	0.0851	0.0435	0.0182	0.0078
47	Xylenes	0.53	0.003	ND	ND	ND	ND	0.0002 J	0.0002 J	0.5	0.005	0.0006 J	.0017 J	0.0017 J	0.0007 J
48	Chromium	0.05	0.010	0.0189	J	0.010	0.0094 J	0.0019 J	0.0214	0.01	0.010	0.0352	.0089 J	0.0132	0.0160
49	Lead	0.015	0.010	J	J	0.0008 J	0.0011 J	0.0003 J	0.0020 J	0.015	0.010	.0031 J	.0015 J	0.0011 J	0.0019 J
50	Nickel	0.1	0.050	J	J	0.0064 J	0.0064 J	0.0058 J	0.0113 J	0.1	0.050	.00153 J	.0099 J	0.0177 J	0.0161 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-10B

Monitoring Well: MW-10B

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.046	0.068	0.042	0.056	0.063	0.059	0.072	0.049	0.054	0.055	0.054	0.060
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0012	0.0012	0.0011
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.019	0.013	0.016	0.014	0.012	0.010	0.008	0.008	0.007	0.007	0.007	0.007
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	0.002	0.001	0.001	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.008	0.008	0.008	0.007	0.005	0.005	0.005	0.005	0.004	0.0043	0.0035	0.0039
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	0.009	ND	0.013	ND	ND	ND	ND	0.00118	0.0065	0.0073
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

	Parameter	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	0.050	0.039	0.0446	0.0446 J	0.047	0.0376	0.006	0.005	0.00353	0.0271	0.0347	0.0326
6	1,1-Dichloroethene	J	ND	0.0005 J	0.0006 J	0.0007 J	0.0006 J	0.007	0.005	.0006 J	.0005 J	0.0006 J	0.0005 J
7	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	0.0011	0.0012	ND	0.001	0.001 J	0.0009 J	0.0006	0.001	.0007 J	.0008 J	0.0008 J	0.0007 J
13	1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	.0004 J	0.0005 J	0.0016
14	2-Butanone (Methyl ethyl ketone)	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	ND	ND	0.0046 J	ND	0.0024 J	0.0118 J	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	0.007	0.009	0.0074	0.008	0.0093	0.0093	0.07	0.005	0.0108	0.0106	0.0141	0.0135
31	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	0.0016	0.0015	0.001 J	0.0019	0.0013	0.001 J	0.005	0.001	0.0014	0.0014	0.0016	0.0014
37	Styrene	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	ND	ND	0.0002 J	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	0.0038	0.0045	0.0042	0.0046	0.0053	0.0048	0.003	0.001	0.0049	0.0050	0.0061	0.0054
44	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0003 J
45	Vinyl acetate	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	0.0062	0.0075	0.0063	0.0067	0.0059	0.0058	0.00003	0.001	0.0047	0.0039	0.0064	0.0044
47	Xylenes	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	J	J	0.0034 J	0.0014 J	ND	ND	0.01	0.010	ND	ND	0.0015 J	ND
49	Lead	J	J	0.0002 J	0.0007 J	0.0002 J	0.0006 J	0.015	0.010	ND	ND	ND	0.0005 J
50	Nickel	J	J	0.0029 J	0.0034 J	ND	0.0021 J	0.1	0.050	ND	ND	0.0029 J	0.0033 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-11

Monitoring Well: MW-11

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GWStd.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	0.005	0.006	0.006	0.0067	0.0082
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0026	ND	0.0037
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	0.001	0.002	0.0018	0.002	0.002	0.002	0.0011	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	0.001	ND	0.0016	0.001	0.004	0.0014	0.0011	0.001
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.01	0.023	0.021	0.022	0.007	0.033	0.0248	0.021	0.025	0.035	0.0269	0.0249
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

	Parameter	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GWStd.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	0.001	0.0063	0.0085	0.0082	0.0096	0.0092	0.0098	0.006	0.005	0.0096	0.0108	0.0122	0.0115
6	1,1-Dichloroethene	0.005	J	ND	0.001 J	0.001 J	0.0012 J	0.0011 J	0.007	0.005	.0001 J	.0012 J	0.0012 J	0.0012 J
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	0.0102	ND	ND	ND
11	1,2-Dichloroethane	0.001	0.0041	0.006	0.0066	0.0068	0.0081	0.0066	0.0004	0.001	ND	0.0088	0.0108	0.0074
12	1,2-Dichloropropane	0.001	0.001	0.001	0.0011	0.0011	0.0013	0.001	0.0006	0.001	0.0010	0.0010	0.0013	0.0010
13	1,4-Dichlorobenzene	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	0.0003 J
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	0.005	J	J	0.0005 J	0.0005 J	0.0007 J	0.0006 J	0.07	0.005	.0007 J	.0007 J	0.0009 J	0.0008 J
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	.0007 J	ND	0.0023	0.0008 J
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	0.001	J	0.0016	0.0016	0.0019	0.0019	0.0012	0.0007	0.001	ND	0.0018	0.0016	0.0021
39	Toluene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	0.001	0.0012	0.0013	0.0014	0.0014	0.0015	0.0012	0.003	0.001	0.0012	0.0013	0.0016	0.0014
44	Trichlorofluoromethane	0.001	0.0173	0.0244	0.0211	0.0298	0.0218	0.0249	2	0.001	0.0228	0.0227	0.0253	0.0196
45	Vinyl acetate	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	0.001	ND	ND	ND	ND	ND	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	0.010	J	J	0.0051 J	0.0057 J	0.0033 J	0.0043 J	0.01	0.010	0.0033 J	.0036 J	0.0031 J	0.0033 J
49	Lead	0.010	ND	J	0.0003 J	0.0013 J	0.0003 J	0.0028 J	0.015	0.010	0.0005 J	.0002 J	0.0003 J	0.0002 J
50	Nickel	0.050	ND	ND	ND	0.0025 J	ND	0.0022 J	0.1	0.050	ND	ND	0.0023 J	0.0023 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-13

Monitoring Well: MW-13

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.01	0.016	0.013	0.016	0.020	0.022	0.030	0.025	0.027	0.031	0.031	0.040
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.034	0.036	0.040	0.044	0.057	0.040	0.049	0.047	0.050	0.049	0.043	0.050
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.019	0.024	0.022	0.022	0.023	0.019	0.0267	0.022	0.023	0.0208	0.0186	0.0214
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.019	0.021	0.032	0.022	0.010	0.043	0.027	0.022	0.025	0.019	0.020	0.024
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0030	0.0027	0.0027
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	J	J	0.0036 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	J	0.0004 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

	Parameter	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	0.001	0.038	0.038	0.038	0.0436	0.0484	0.0401	0.006	0.005	0.0455	0.0344	0.0454	0.0387
6	1,1-Dichloroethene	0.005	0.0038	J	0.004 J	0.004 J	0.0042 J	0.0032 J	0.007	0.005	.0035 J	.0028 J	0.0031 J	0.0026 J
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	0.0003 J
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	0.001	ND	ND	0.0003 J	0.0004 J	0.0004 J	0.0004 J	0.001	0.001	.0005 J	.0004 J	0.0005 J	0.0004 J
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	0.0029 J	ND	0.0015 J	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	0.005	0.049	0.049	0.0443	0.0479	0.055	0.0442	0.07	0.005	0.0459	0.0362	0.0352	0.0366
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	0.001	ND	0.0013	0.0014	0.0016	0.0018	0.001	0.0007	0.001	.0002 J	0.0017	0.0018	0.0023
39	Toluene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	.0004 J	.0005 J	0.0006 J	0.0018 J
41	trans-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	0.001	0.0204	0.0246	0.0201	0.0198	0.0208	0.02	0.003	0.001	0.0234	0.0186	0.0237	0.0214
44	Trichlorofluoromethane	0.001	0.019	0.021	ND	ND	0.0158	0.0186	2	0.001	0.0213	0.0150	ND	0.0126
45	Vinyl acetate	0.050	ND	ND	ND	ND	0.0072	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	0.001	0.0037	0.0066	0.006	ND	0.0072	0.007	0.00003	0.001	0.008	0.0061	0.0084	0.0054
47	Xylenes	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	0.010	0.0015 J	ND	ND	0.0057 J	0.0033 J	0.0043 J	0.01	0.010	ND	ND	0.0011 J	ND
49	Lead	0.010	0.0004 J	ND	0.0003 J	0.0013 J	0.0003 J	0.0028 J	0.015	0.010	ND	ND	ND	ND
50	Nickel	0.050	ND	ND	ND	0.0025 J	ND	0.0022 J	0.1	0.050	ND	ND	ND	ND

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-14

Monitoring Well: MW-14

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.154	0.219*	ND		0.079	0.186	0.336	0.307	0.220	0.378	0.339	0.244
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	0.139		ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND		ND	ND	ND	ND	ND	0.0022	0.0021	0.0028
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	0.008	ND	0.008		0.005	0.017	0.0188	0.015	0.012	0.019	0.02	0.0145
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	0.62	1.05*	ND		0.064	1.66	1.27	0.866	ND	0.47	ND	0.448
15	2-Hexanone	mg/L		0.050	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	0.096	ND		ND	0.084	0.0771	ND	0.056	ND	ND	0.0533
17	Acetone	mg/L	0.7	0.050	1.11	2.00*	0.195		0.165	2.85	2.27	0.712	ND	0.807	0.524	0.448
18	Acrylonitrile	mg/L		0.025	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.013	0.017	0.015		0.008	0.010	0.011	0.008	0.012	0.013	0.013	0.015
20	Bromochloromethane	mg/L		0.005	ND	ND	0.24		ND	ND	0.0187	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND		0.036	0.022	0.0304	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND		ND	ND	0.019	0.014	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.458	0.587*	0.323		0.362	0.374	0.794	0.613	0.794	1.02	1.11	1.36
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	0.022	0.043	0.025		0.007	0.031	0.0348	0.051	0.027	0.047	0.0498	0.0414
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	3.02	4.76	2.07		1.22	3.57	3.87	2.41	0.465	0.283	0.127	0.582
37	Styrene	mg/L	0.1	0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.007	0.008	0.00827		0.002	0.008	0.013	0.010	0.005	0.0055	0.0016	0.0019
39	Toluene	mg/L	1.0	0.005	0.069	0.168*	0.117		ND	0.051	0.0931	0.105	0.061	0.091	0.104	0.108
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.122	0.134*	0.205		0.184	0.144	0.248	0.139	0.348	0.1100	0.0301	0.1120
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	0.007	ND	0.016		0.011	0.020	0.025	0.017	0.014	ND	0.032	0.025
47	Xylenes	mg/L	0.53	0.005	0.087	0.097	0.85		0.049	0.102	0.176	0.224	0.131	0.195	0.199	0.167
48	Chromium	mg/L	0.05	0.010	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND

	Parameter	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	.0004 J	ND	ND
3	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	ND	ND	ND	0.0006 J	ND	ND		0.001	.0016 J	.0011 J	0.0008 J	ND
5	1,1-Dichloroethane	0.563	0.267	0.169	0.232	0.18	0.514	0.006	0.005	0.356	0.254	0.419	0.242
6	1,1-Dichloroethene	ND	J	ND	ND	ND	ND	0.007	0.005	.0006 J	ND	0.0017 J	ND
7	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	ND	ND	ND	0.0007 J	ND	0.0006 J	0.02	0.005	.0007 J	.0009 J	0.0007 J	0.0007 J
11	1,2-Dichloroethane	ND	ND	0.0077	ND	ND	0.003	0.0004	0.001	0.007	0.0068	0.0071	0.0051
12	1,2-Dichloropropane	ND	0.003	0.0044	0.0037	0.0044	0.0032	0.0006	0.001	0.0038	0.0040	0.0046	0.0039
13	1,4-Dichlorobenzene	0.0179	0.0153	0.0101	0.0149	0.0085	0.0213	0.006	0.001	0.0217	0.0290	0.0221	0.0248
14	2-Butanone (Methyl ethyl ketone)	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	ND	ND	0.0069 J	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	J	J	0.03 J	0.0235 J	0.0297 J	ND		0.100	ND	ND	ND	ND
17	Acetone	J	0.182	0.119	0.127	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	0.016	0.014	0.012	0.0112	0.0101	0.0152	0.001	0.001	0.0102	0.0104	0.0160	0.0155
20	Bromochloromethane	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	ND	J	0.0068 J	ND	0.0043 J	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	J	0.0042	0.0037	0.0055	0.0032	0.0067	0.05	0.003	0.0057	0.0077	0.0074	0.0088
27	Chloroethane	ND	0.0389	ND	0.0029 J	ND	0.0086 J	3.00	0.010	0.0223	0.0145	0.0129	0.0145
28	Chloroform	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	1.27	0.342	ND	0.228	0.29	0.659	0.07	0.005	0.322	0.282	0.417	0.250
31	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	0.045	0.0417	0.0202	0.0475	0.0116	0.0706	0.600	0.001	0.039	0.0557	0.0641	0.0167
35	Iodomethane (Methyl iodide)	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	0.082	ND	0.484	0.0244	0.138	0.0142	0.005	0.001	0.0744	0.0060	0.0010	0.0023
37	Styrene	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	ND	0.0021	0.0032	0.0056	0.0025	0.0012	0.0007	0.001	0.0015	0.0040	0.0019	0.0040
39	Toluene	0.0844	0.0615	0.0803	0.178	0.0187	0.0463	0.6	0.001	0.0223	0.0222	0.0062	0.0043
40	trans-1,2-Dichloroethene	ND	J	0.0019 J	0.0012 J	0.0022 J	0.0019 J	0.10	0.005	.0025 J	.0032 J	0.0025 J	0.0059
41	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	0.0541	0.0899	0.0924	0.0208	0.0578	0.0372	0.003	0.001	0.0682	0.0653	0.0281	0.0341
44	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0031
45	Vinyl acetate	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	0.027	0.069	0.04	0.0604	0.0877	0.0622	0.00003	0.001	0.0305	0.0350	0.0561	0.0386
47	Xylenes	0.178	0.162	0.104	0.196	0.0767	0.128	0.5	0.005	0.224	0.300	0.227	0.210
48	Chromium	J	ND	0.0024 J	ND	ND	ND	0.01	0.010	ND	ND	0.0018 J	ND
49	Lead	J	J	0.0004 J	0.0008 J	ND	0.0013 J	0.015	0.010	0.0008 J	.0011 J	0.0015 J	0.0004 J
50	Nickel	J	ND	0.005 J	0.0106 J	ND	ND	0.1	0.050	0.0026 J	.0022 J	0.0027 J	0.0022 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-14A

Monitoring Well: MW-14A

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	J	J	0.0022 J	0.0022 J	0.0026 J	.0025 J	0.006	0.005	.0029 J	.0023 J	0.0024 J	ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	.0009 J	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.0006 J	ND	ND	0.0007 J	0.0004	0.001	ND	0.0012	0.0014	0.0012
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	0.0050
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	0.0117 J	ND	0.0024 J	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	0.0003 J	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	J	J	0.0016 J	0.0017 J	0.0021 J	0.0002 J	0.07	0.005	.0022 J	.0017 J	0.0022 J	0.0031 J
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.012	0.008	0.010	0.009	0.011	0.009	0.011	0.014	0.016	0.0197	0.0151	0.0145	0.001	0.0203	0.0208	0.0165	0.0204	0.0216	0.0147	0.0007	0.001	0.0227	0.0166	0.0161	0.0203
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	0.0016	0.002	0.003	0.0027	0.0032	0.003	0.001	0.0038	0.0046	0.004	0.004	0.0049	0.0049	0.003	0.001	0.0061	0.0043	0.0052	0.0066
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.0017	0.002	0.0018	0.0021	0.0022	0.0021	2	0.001	0.0018	0.0014	0.0019	0.0017
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	0.0024 J
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	J	0.0058 J	0.0051 J	0.0045 J	0.0045 J	0.01	0.010	0.0042 J	.0046 J	0.0053 J	0.0042 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	0.0004 J	0.0005 J	ND	ND	0.015	0.010	ND	ND	0.0003 J	0.0002 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.1	0.050	ND	ND	ND	0.0024 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-15

Monitoring Well: MW-15

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	0.007	ND	ND	ND	0.007	0.008	0.0062	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.197	0.225	0.235	0.447	0.126	0.125	0.189	0.299	0.526	0.431	0.368	0.560
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	0.0010	0.0014
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	0.005	ND	ND	ND	ND	0.006	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.010	0.016	0.019	ND	0.003	0.003	0.006	0.013	0.023	0.016	0.014	0.021
20	Bromochloromethane	mg/L		0.005	ND	ND	0.080	ND	ND	ND	0.006	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	0.007	ND	ND	ND	ND	ND	0.008	ND	0.006	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.228	0.361	0.325	0.493	0.094	0.055	0.139	0.302	0.617	0.452	0.401	0.588
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	0.545	0.009	0.537	ND	0.199	0.233	0.671	0.960	1.090	0.757	0.419	0.500
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.007	ND	0.006	ND	0.003	0.006	0.007	0.004	0.007	0.0075	0.0045	0.0041
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.088	0.084	0.150	0.127	0.034	0.029	0.063	0.108	0.202	0.135	0.113	0.177
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.039	ND	0.030	0.018	0.018	0.075	0.058	0.024	0.051	0.063	0.053	0.044
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	0.016	0.010	0.012	0.006	0.022	0.023	0.022	0.006	0.007	0.0117	0.0103	0.0104
47	Xylenes	mg/L	0.53	0.005	0.027	0.019	0.062	0.063	0.010	0.007	0.017	0.036	0.070	0.047	0.049	0.053
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

	Parameter	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.001	ND	0.0015	ND	ND	ND	0.0008 J	0.2	0.001	ND	.0008 J	0.0006 J	0.0006 J
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	0.001	0.469	0.438	0.661	0.559	0.528	0.488	0.006	0.005	0.367	0.337	0.332	0.434
6	1,1-Dichloroethene	0.005	ND	J	0.0038 J	0.0038 J	0.0039 J	0.003 J	0.007	0.005	.0024 J	.0026 J	0.0030 J	0.0024 J
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	J	0.0008 J	0.0008 J	0.001 J	0.0008 J	0.02	0.005	ND	.0008 J	0.0007 J	0.0007 J
11	1,2-Dichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	.0006 J	ND	ND	ND
12	1,2-Dichloropropane	0.001	ND	0.0013	0.002	0.002	0.002	ND	0.0006	0.001	0.0011	0.0012	0.0015	0.0013
13	1,4-Dichlorobenzene	0.001	ND	0.005	0.005	0.006	0.006	0.006	0.006	0.001	0.0047	0.0052	0.0045	0.0057
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	0.001	0.019	0.019	0.019	0.020	0.019	0.018	0.001	0.001	0.0156	0.0151	0.0187	0.0152
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	0.0039	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	0.003	ND	0.005	0.005	0.006	0.006	0.005	0.05	0.003	0.0055	0.0047	0.0044	0.0048
27	Chloroethane	0.010	ND	J	ND	0.0024 J	0.0021 J	0.0022 J	3.00	0.010	.0017 J	.0023 J	0.0022 J	0.0019 J
28	Chloroform	0.005	ND	ND	ND	0.0004 J	0.0005 J	0.0003 J	0.07	0.005	.0003 J	.0004 J	0.0003 J	0.0003 J
29	Chloromethane (Methyl chloride)	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	0.005	0.572	0.534	0.704	ND	0.553	0.548	0.07	0.005	0.378	0.373	0.384	0.464
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	0.001	0.335	ND	0.209	0.193	0.174	0.127	0.005	0.001	0.116	0.112	0.106	0.0824
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	0.001	ND	0.0053	0.006	0.007	0.007	0.004	0.0007	0.001	0.0035	0.0060	0.0053	0.0068
39	Toluene	0.001	ND	ND	0.0003 J	0.0002 J	0.0003 J	0.0002 J	0.6	0.001	.0002 J	ND	ND	0.0002 J
40	trans-1,2-Dichloroethene	0.005	ND	0.0056	0.0022 J	0.0021 J	0.0038 J	0.0025 J	0.10	0.005	.0026 J	0.0067	0.0036 J	0.0106
41	trans-1,3-Dichloropropene	0.001	0.054	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	0.001	0.146	0.186	0.162	0.168	0.174	0.145	0.003	0.001	0.13	0.126	0.134	0.110
44	Trichlorofluoromethane	0.001	0.043	ND	ND	ND	0.00226 J	0.032	2	0.001	0.025	0.0233	0.0229	0.0165
45	Vinyl acetate	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	0.001	ND	0.0091	0.009	0.010	0.008	0.011	0.00003	0.001	0.0127	0.0109	0.0151	0.0102
47	Xylenes	0.003	ND	0.058	0.063	0.066	0.071	0.029	0.5	0.005	0.0566	0.0479	0.0453	0.0472
48	Chromium	0.010	ND	ND	0.004 J	0.0016 J	ND	ND	0.01	0.010	ND	ND	0.0015 J	0.0012 J
49	Lead	0.010	ND	J	0.0029 J	0.002 J	0.0005 J	0.0009 J	0.015	0.010	0.0007 J	.0004 J	0.0007 J	0.0008 J
50	Nickel	0.050	J	ND	0.0039 J	0.0026 J	0.0031 J	ND	0.1	0.050	0.0064 J	.0053 J	0.0046 J	0.0047 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-16

Monitoring Well: MW-16

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.053	0.047	0.045	0.061	0.087	0.085	0.109	0.089	0.126	0.148	0.144	0.131	0.001	0.144	0.0918	0.0994	0.112	0.103	0.0817	0.006	0.005	0.0948	0.0746	0.118	0.114
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	ND	0.005	J	J	0.0025 J	0.0023 J	0.0023 J	0.0016 J	0.007	0.005	.002 J	.0018 J	0.0021 J	0.0018 J
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	.0005 J	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.001	J	J	0.0007 J	0.0007 J	0.0007 J	0.0006 J	0.0006	0.001	.0006 J	.0007 J	0.0007 J	0.0008 J
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	J	ND	0.0004 J	0.0005 J	0.0004 J	0.0004 J	0.006	0.001	.0006 J	.0005 J	0.0005 J	0.0017
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	0.004	0.003	0.0038	0.004	0.005	0.005	0.004	0.0036	0.001	0.0032	0.0025	0.0022	0.0018	0.0016	0.0014	0.001	0.001	0.0016	0.0018	0.0020	0.0024
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	0.011	ND	0.011	ND	ND	ND	0.0142	0.013	0.014	ND	0.0136	0.0133	0.010	0.0112	0.0116	0.0101	0.0098 J	0.0071 J	0.0074 J	3.00	0.010	0.0039 J	.0070 J	0.0070 J	0.0101
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.024	0.028	0.027	0.025	0.041	0.024	0.0322	0.026	0.027	0.025	0.0173	0.0158	0.005	0.0183	0.0144	0.0128	0.0151	0.0158	0.014	0.07	0.005	0.0183	ND	0.0192	0.0178
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	0.002	0.003	0.002	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	0.003	0.0027	0.002	0.003	0.0025	0.0014	ND	0.001	0.0022	0.0013	0.0016	0.0018	0.0019	0.0008 J	0.0007	0.001	.0004 J	0.0011	0.0017	0.0013
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	.0005 J	ND	0.0007 J
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.044	0.029	0.035	0.024	0.031	0.024	0.040	0.035	0.055	0.0425	0.0416	0.0400	0.001	0.0504	0.0321	0.0356	0.036	0.0371	0.0223	0.003	0.001	0.0279	0.0188	0.0246	0.0202
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.007	0.005	0.007	0.006	ND	ND	ND	ND	0.011	ND	ND	ND	0.001	ND	ND	ND	ND	ND	0.0099	2	0.001	0.0125	0.0109	0.0112	0.0105
45	Vinyl acetate	mg/L		0.025	ND	ND	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	0.007	ND	0.007	ND	0.008	0.008	0.0113	0.011	0.011	ND	0.0126	0.0108	0.001	0.0073	0.0095	0.0073	0.0097	0.0069	0.0093	0.00003	0.001	0.0095	0.0111	0.0096	0.0107
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	0.0007 J
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	0.0459	0.024	0.015	0.016	0.0102	ND	0.010	J	J	0.0087 J	0.0205	0.0015 J	0.0116	0.01	0.010	0.0049 J	.0037 J	0.0162	0.0049 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	J	0.0005 J	0.0011 J	ND	0.0007 J	0.015	0.010	0.0004 J	.0003 J	0.0005 J	0.0007 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	J	J	0.0136 J	0.0195 J	0.0093 J	0.0152 J	0.1	0.050	0.0118 J	.0117 J	0.0164 J	0.0131 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-16A

Monitoring Well: MW-16A

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.006	0.006	0.006	0.009	0.010	0.015	0.017	0.018	0.020	0.024	0.024	0.032
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.027	ND	0.025	0.025	0.028	0.026	0.0359	0.031	0.046	0.057 E	0.0495	0.0406
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.029	ND	ND	0.024	0.030	0.020	0.030	0.021	0.029	0.0270 E	0.024	0.025
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.023	ND	ND	0.025	0.025	0.048	0.0328	0.025	0.032	0.035 E	0.029	0.0263
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

	Parameter	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	0.001	0.025	0.025	0.030	0.0357	0.0364	0.0332	0.006	0.005	.0345 J	0.0312	0.0378	0.0356
6	1,1-Dichloroethene	0.005	J	J	0.0039 J	0.0039 J	0.004 J	0.0034 J	0.007	0.005	.0033 J	.0030 J	0.0028 J	0.0029 J
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	0.0003 J	0.0005 J
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	0.001	ND	ND	0.0002 J	0.0002 J	0.0002 J	0.0002 J	0.001	0.001	.0002 J	.0003 J	0.0003 J	0.0003 J
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	.0020 J	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	J	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	0.005	0.0519	0.0436	0.043	0.0469	0.0488	0.0413	0.07	0.005	.0388 J	0.0378	0.0451	0.0383
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	0.001	ND	J	0.001	0.0012	0.0014	0.0008 J	0.0007	0.001	ND	0.0013	0.0016	0.0017
39	Toluene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	0.005	ND	J	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	0.001	0.023	0.022	0.021	0.021	0.0207	0.0206	0.003	0.001	0.0211	0.0189	0.0194	ND
44	Trichlorofluoromethane	0.001	0.024	0.022	0.018	ND	0.0197	0.0224	2	0.001	0.0238	0.0181	0.0149	0.0152
45	Vinyl acetate	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	0.001	ND	0.0042	0.0055	0.0076	0.0051	0.0047	0.00003	0.001	0.0049	0.0047	0.0047	0.0047
47	Xylenes	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	0.010	ND	ND	0.002 J	ND	ND	ND	0.01	0.010	ND	ND	ND	ND
49	Lead	0.010	ND	ND	ND	0.0003 J	ND	ND	0.015	0.010	ND	ND	ND	ND
50	Nickel	0.050	ND	ND	ND	ND	0.0032 J	ND	0.1	0.050	ND	ND	0.0022 J	ND

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-18

Monitoring Well: MW-18

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND				0.005	ND			ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.2	0.001	ND			ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND				0.003	ND			ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND				0.001	ND			ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.006	0.005	ND			ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.007	0.005	ND			ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0000050	0.001	ND			ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00004	0.013	ND			ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00002	0.001	ND			ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.02	0.005	ND			ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0006	0.001	ND			ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.006	0.001	ND			ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			4.00	0.100	ND			ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			ND				0.050	ND			ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND				0.100	ND			ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			6	0.100	ND			ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.200	ND			ND				0.200	ND			ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.001	0.001	ND			ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND				0.003	ND			ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0006	0.001	ND			ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.004	0.003	ND			ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND				0.010	ND			ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			0.7	0.100	ND			ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0003	0.001	ND			ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.05	0.003	ND			ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND			3.00	0.010	ND			ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.07	0.005	ND			ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.003	0.001	ND			ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.07	0.005	ND			ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.003	ND			ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND				0.001	ND			ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.600	0.001	ND			ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND				0.010	ND			ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.005	0.001	ND			ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.07	0.001	ND			ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0007	0.001	ND			ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.6	0.001	ND			ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.10	0.005	ND			ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND				0.100	ND			ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.003	0.001	ND			ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			2	0.001	ND			ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			ND				0.050	ND			ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00003	0.001	ND			ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.5	0.005	ND			ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND			ND			0.010	J			0.0028 J			0.01	0.010	0.0020 J			0.0020 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			0.0002 J			0.015	0.010	ND			ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			ND			0.1	0.050	ND			ND

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-20

Monitoring Well: MW-20

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	0.006	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.002	0.002	ND	ND	0.0022	0.0021	0.2	0.001	0.0023	0.0016	0.0015	0.0031
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.424	0.299*	0.469	0.009	0.568	0.547	0.890	0.010	0.802	0.460	0.793	0.890	0.001	0.708	0.651	0.910	0.814	0.709	0.725	0.006	0.005	0.591	0.461	0.957	0.587
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.017	0.011	0.020	ND	0.008	0.006	0.008	ND	0.013	0.009	0.010	0.013	0.005	0.011	0.008	0.015	0.0148	0.0159	0.009	0.007	0.005	0.0095	ND	0.0096	0.0064
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0053	0.004	0.0039	0.001	0.0032	0.0096	0.0054	0.0059	0.005	0.0089	0.0006	0.001	0.0081	0.0095	0.0079	0.0085
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.0014	0.0033	0.0026	0.0028	0.0025	0.004	0.006	0.001	0.0032	0.0037	0.0036	0.0039
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.012	0.010	ND	ND	0.019	0.021	0.0192	0.016	0.011	0.022	0.0164	0.0151	0.001	0.0131	0.0234	0.0188	0.0188	0.016	0.0226	0.001	0.001	0.0209	0.0214	0.0209	0.0184
20	Bromochloromethane	mg/L		0.005	0.008	ND	ND	ND	ND	ND	0.0177	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	.0014 J	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	0.0024 J	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	0.0004 J	0.0003 J	ND	0.0003	0.001	ND	.0002 J	0.0003 J	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	J	J	0.0011 J	0.0012 J	0.0011 J	0.0016 J	0.05	0.003	.0013 J	.0018 J	0.0014 J	0.0016 J
27	Chloroethane	mg/L	2.80	0.005	0.008	ND	ND	ND	ND	ND	0.0072	ND	ND	ND	ND	ND	0.010	J	J	0.0013 J	ND	0.001 J	ND	3.00	0.010	.0011 J	.0012 J	0.0010 J	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	0.0004 J	0.0004 J	0.07	0.005	.0005 J	.0004 J	0.0004 J	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.099	0.094*	0.166	0.240	0.223	0.174	0.444	0.266	0.634	0.375	0.636	0.869	0.005	0.617	0.874	1.110	ND	0.935	1.33	0.07	0.005	0.938	1.08	1.98	1.40
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	1.93	0.904*	0.611	1.10	6.48	3.59	3.05	0.204	ND	0.201	0.334	0.071	0.001	0.074	0.075	0.064	0.142	0.0408	0.0249	0.005	0.001	0.0444	0.0638	0.0867	0.0530
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.026	0.026*	0.043	0.037	0.036	0.043	0.0621	0.037	0.040	0.0222	0.0284	0.0450	0.001	0.0471	0.0422	0.0544	0.0765	0.0622	0.0177	0.0007	0.001	0.056	0.0448	0.0718	0.0661
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	0.0002 J	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	0.005	ND	0.012	0.0024 J	0.0019 J	0.0043 J	0.0033 J	0.10	0.005	.0039 J	0.0110	0.0046 J	0.0059
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.116	0.095*	0.221	0.189	0.190	0.175	0.466	0.134	0.585	0.198	0.520	0.493	0.001	0.587	0.655	0.912	0.795	0.84	1.04	0.003	0.001	0.914	0.775	1.48	0.900
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.013	0.030*	0.013	ND	0.007	0.022	0.0212	0.017	ND	0.024	ND	ND	0.001	ND	0.0161	ND	ND	ND	0.0151	2	0.001	0.0164	0.0188	0.0214	0.0174
45	Vinyl acetate	mg/L		0.025	ND	0.638	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	0.010	ND	ND	0.007	0.015	0.007	0.0146	ND	ND	0.004	0.0053	0.0059	0.001	ND	0.0074	0.0058	0.006	0.0052	0.0059	0.00003	0.001	0.0065	0.0057	0.0057	ND
47	Xylenes	mg/L	0.53	0.005	0.009	ND	0.006	0.012	0.016	0.016	0.013	0.008	ND	0.011	0.0066	ND	0.003	J	ND	0.004	0.0031	0.0037	0.0078	0.5	0.005	0.0125	0.0182	0.0142	0.0172
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	0.0199	0.0024 J	0.0011 J	ND	ND	0.01	0.010	ND	.0012 J	0.0014 J	0.0010 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	0.0002 J	0.0002 J	ND	ND	0.015	0.010	ND	.0003 J	0.0003 J	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	J	J	0.0029 J	0.0033 J	ND	ND	0.1	0.050	ND	ND	0.0033 J	0.0030 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-21

Monitoring Well: MW-21

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GWStd.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

	Parameter	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GWStd.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	0.006	0.005	ND	ND	ND	ND
6	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	ND	ND	ND	ND	0.0018 J	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	ND	ND	ND	ND	0.0004 J	ND	0.003	0.001	ND	ND	ND	ND
44	Trichlorofluoromethane	ND	ND	0.0003 J	ND	0.0004 J	0.0004 J	2	0.001	.0005 J	.0005 J	ND	0.0005 J
45	Vinyl acetate	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	ND	ND	ND	ND	ND	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	J	J	0.0038 J	0.0046 J	0.0041 J	0.0031 J	0.01	0.010	0.0019 J	.0058 J	0.0038 J	0.0057 J
49	Lead	ND	J	0.0008 J	0.0012 J	0.0004 J	ND	0.015	0.010	0.0003 J	.0007 J	0.0003 J	0.0005 J
50	Nickel	ND	ND	0.0031 J	0.0035 J	ND	ND	0.1	0.050	ND	ND	ND	0.0027 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-23

Monitoring Well: MW-23

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	1 Sep-2004	2 Mar-2005	3 Sep-2005	4 Mar-2006	5 Sep-2006	SWSL	6 Mar-2007	7 Sep-2007	8 Mar-2008	9 Sep-2008	10 Mar-2009	11 Sep-2009	GW Std.	SWSL	12 Mar-2010	13 Sep-2010	14 Mar-2011	15 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.005	ND	ND	ND	ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	0.010	ND	ND	0.004 J	ND	ND	ND	0.01	0.010	ND	ND	0.0015 J	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	0.010	J	J	0.0083 J	0.0044 J	0.0020 J	0.0031 J	0.015	0.010	0.0009 J	.0030 J	0.0017 J	0.0005 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.1	0.050	ND	ND	ND	0.0026 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-24

Monitoring Well: MW-24

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	1 Sep-2004	2 Mar-2005	3 Sep-2005	4 Mar-2006	5 Sep-2006	SWSL	6 Mar-2007	7 Sep-2007	8 Mar-2008	9 Sep-2008	10 Mar-2009	11 Sep-2009	GW Std.	SWSL	12 Mar-2010	13 Sep-2010	14 Mar-2011	15 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.005	ND	ND	ND	ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	0.011	ND	ND	0.010	J	J	0.0049 J	0.0060 J	0.0021 J	0.0040 J	0.01	0.010	0.0019 J	.0012 J	0.0038 J	0.0020 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	0.010	J	J	0.0022 J	0.0028 J	0.0008 J	0.0013 J	0.015	0.010	0.0012 J	.0005 J	0.0030 J	0.0006 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	0.050	J	ND	0.0022 J	0.0021 J	ND	0.0026 J	0.1	0.050	0.0049 J	.0036 J	0.0050 J	0.0032 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

MW-24D

Monitoring Well: MW-24D

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	1 Sep-2004	2 Mar-2005	3 Sep-2005	4 Mar-2006	5 Sep-2006	SWSL	6 Mar-2007	7 Sep-2007	8 Mar-2008	9 Sep-2008	10 Mar-2009	11 Sep-2009	GW Std.	SWSL	12 Mar-2010	13 Sep-2010	14 Mar-2011	15 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.005	ND	ND	ND	ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	0.100	ND	ND	0.0016 J	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	0.023	0.016	ND	ND	ND	0.010	J	J	0.004 J	0.0031 J	0.0023 J	0.0028 J	0.01	0.010	0.0025 J	.0018 J	0.0038 J	0.0018 J
49	Lead	mg/L	0.015	0.010	0.029	0.026	ND	ND	ND	0.010	ND	J	0.0019 J	0.0014 J	0.0003 J	0.0018 J	0.015	0.010	0.0009 J	ND	0.0007 J	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	0.050	J	J	0.0027 J	0.0041 J	0.0029 J	ND	0.1	0.050	ND	ND	0.0022 J	0.0024 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

OW-1

Monitoring Well: OW-1

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.038	0.052	0.053	0.060	0.083	0.029	0.035	0.024	0.017	0.007	0.0052	0.0071
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.052	0.09	0.095	0.115	0.133	0.019	0.0366	0.023	0.022	0.006	0.0019	0.003
20	Bromochloromethane	mg/L		0.005	ND	ND	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.07	0.066	0.118	0.115	0.174	0.023	0.0422	0.028	0.025	0.008	ND	0.0052
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	0.248	0.461	0.223	0.189	0.336	0.129	0.186	0.076	ND	0.015	0.0059	0.0112
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	0.002	0.002	0.0019	0.001	0.001	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.01	0.013	0.021	0.021	0.022	0.006	0.0072	0.005	0.004	0.0012	ND	0.0011
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	0.009	0.007	0.013	ND	ND	ND	ND	0.0018	0.0019	0.0024
47	Xylenes	mg/L	0.53	0.005	0.059	0.051*	0.097	0.127	0.139	0.042	0.0518	0.037	0.027	0.008	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	0.016	0.032	0.025	ND	ND	0.021	0.0131	0.013	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

	Parameter	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	0.001	0.0096	0.0178	0.0167	0.0236	0.0246	0.0631	0.006	0.005	0.0765	0.0611	0.058	0.0531
6	1,1-Dichloroethene	0.005	ND	ND	ND	0.0003 J	ND	0.0004 J	0.007	0.005	ND	.0004 J	ND	ND
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	.0005 J	ND	ND
13	1,4-Dichlorobenzene	0.001	ND	J	0.0004 J	0.0004 J	0.0004 J	0.0006 J	0.006	0.001	0.0015	0.0016	0.0012	0.0010
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	0.001	0.0032	0.0065	0.0121	0.011	0.0076	0.0074	0.001	0.001	0.006	0.0069	0.0064	0.0053
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	0.003	ND	ND	0.0002 J	0.0003 J	0.0003 J	0.0012 J	0.05	0.003	.0023 J	.0028 J	0.0022 J	0.0023 J
27	Chloroethane	0.010	J	0.013	ND	0.012	0.011	0.02298	3.00	0.010	0.0193	0.0175	0.0128	0.0091 J
28	Chloroform	0.005	ND	ND	0.0003 J	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	J	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	0.005	J	0.0115	0.0117	0.0147	0.0144	0.0428	0.07	0.005	0.053	0.0514	0.0477	0.0435 J
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	0.001	0.0017	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	0.0036	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	0.001	0.0067	0.0164	0.0328	0.0209	0.0114	0.0022	0.005	0.001	0.002	0.0022	0.0023	0.0016
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	0.001	J	0.0017	0.0012	0.0023	0.0024	0.0035	0.0007	0.001	0.003	0.0061	0.0049	0.0045
39	Toluene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	.0007 J	.0009 J	ND	ND
41	trans-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	0.100	ND	ND	ND	ND	ND	0.0005 J		0.100	ND	ND	ND	ND
43	Trichloroethene	0.001	0.002	0.0047	0.0022	0.0051	0.0056	0.0156	0.003	0.001	0.0178	0.0153	0.0114	0.0093
44	Trichlorofluoromethane	0.001	ND	J	ND	ND	ND	0.0017	2	0.001	0.002	0.0017	0.0009 J	0.0008 J
45	Vinyl acetate	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	0.001	0.0084	0.0155	0.0039	0.0166	0.0113	0.0187	0.00003	0.001	0.0166	0.0178	0.0131	0.0109
47	Xylenes	0.003	J	ND	0.0148	0.0126	0.0097	0.00385	0.5	0.005	0.0375	0.0110	0.0104	0.0100
48	Chromium	0.010	J	0.0068	0.0017 J	ND	ND	ND	0.01	0.010	ND	ND	0.0011 J	ND
49	Lead	0.010	J	J	0.0047 J	0.0014 J	0.0027 J	ND	0.015	0.010	0.002 J	.0014 J	0.0014 J	0.0008 J
50	Nickel	0.050	ND	ND	ND	ND	ND	ND	0.1	0.050	0.0025 J	.0024 J	ND	0.0022 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

OW-3

Monitoring Well: OW-3

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2010	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
4	1,1,2-Trichloroethane	mg/L		0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
5	1,1-Dichloroethane	mg/L	0.07	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
6	1,1-Dichloroethene	mg/L	0.007	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
11	1,2-Dichloroethane	mg/L	0.00038	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
12	1,2-Dichloropropane	mg/L	0.00051	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
15	2-Hexanone	mg/L		0.050	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
16	4-Methyl-2-pentanone	mg/L		0.050	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
17	Acetone	mg/L	0.7	0.050	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
18	Acrylonitrile	mg/L		0.025	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
19	Benzene	mg/L	0.001	0.001	NS	NS	NS	NS	NS	ND	ND	0.023	ND	ND	ND	NS
20	Bromochloromethane	mg/L		0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
21	Bromodichloromethane	mg/L	0.00056	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
22	Bromoform	mg/L	0.00443	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
23	Bromomethane (Methyl bromide)	mg/L		0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
24	Carbon disulfide	mg/L	0.7	0.025	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
25	Carbon tetrachloride	mg/L	0.000269	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
26	Chlorobenzene	mg/L	0.05	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
27	Chloroethane	mg/L	2.80	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
28	Chloroform	mg/L	0.07	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
32	Dibromochloromethane	mg/L		0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
33	Dibromomethane (Methylene bromide)	mg/L		0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
34	Ethylbenzene	mg/L	0.550	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
35	Iodomethane (Methyl iodide)	mg/L		0.025	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
36	Methylene chloride	mg/L	0.0046	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
37	Styrene	mg/L	0.1	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
38	Tetrachloroethene	mg/L	0.0007	0.001	NS	NS	NS	NS	NS	0.003	0.0029	0.002	0.002	0.0021	0.0018	NS
39	Toluene	mg/L	1.0	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
43	Trichloroethene	mg/L	0.0028	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
44	Trichlorofluoromethane	mg/L	2.1	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
45	Vinyl acetate	mg/L		0.025	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
46	Vinyl chloride	mg/L	0.000015	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
47	Xylenes	mg/L	0.53	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS
48	Chromium	mg/L	0.05	0.010	NS	NS	NS	NS	NS	ND	ND	0.013	ND	ND	ND	NS
49	Lead	mg/L	0.015	0.010	NS	NS	NS	NS	NS	ND	ND	0.027	ND	ND	ND	NS
50	Nickel	mg/L	0.1	0.050	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS

	Parameter	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	0.005	ND	NS	NS	NS	NS	NS		0.005	ND	ND	ND	NS
2	1,1,1-Trichloroethane	0.001	ND	NS	NS	NS	NS	NS	0.2	0.001	ND	ND	ND	NS
3	1,1,2,2-Tetrachloroethane	0.001	ND	NS	NS	NS	NS	NS		0.003	ND	ND	ND	NS
4	1,1,2-Trichloroethane	0.005	ND	NS	NS	NS	NS	NS		0.001	ND	ND	ND	NS
5	1,1-Dichloroethane	0.001	J	NS	NS	NS	NS	NS	0.006	0.005	ND	ND	ND	NS
6	1,1-Dichloroethene	0.005	ND	NS	NS	NS	NS	NS	0.007	0.005	ND	ND	ND	NS
7	1,2,3-Trichloropropane	0.001	ND	NS	NS	NS	NS	NS	0.0000050	0.001	ND	ND	ND	NS
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.001	ND	NS	NS	NS	NS	NS	0.00004	0.013	ND	ND	ND	NS
9	1,2-Dibromoethane (EDB)	0.001	ND	NS	NS	NS	NS	NS	0.00002	0.001	ND	ND	ND	NS
10	1,2-Dichlorobenzene	0.005	ND	NS	NS	NS	NS	NS	0.02	0.005	ND	ND	ND	NS
11	1,2-Dichloroethane	0.001	ND	NS	NS	NS	NS	NS	0.0004	0.001	ND	ND	ND	NS
12	1,2-Dichloropropane	0.001	ND	NS	NS	NS	NS	NS	0.0006	0.001	ND	ND	ND	NS
13	1,4-Dichlorobenzene	0.001	ND	NS	NS	NS	NS	NS	0.006	0.001	ND	ND	ND	NS
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	NS	NS	NS	NS	NS	4.00	0.100	ND	ND	ND	NS
15	2-Hexanone	0.050	ND	NS	NS	NS	NS	NS		0.050	ND	ND	ND	NS
16	4-Methyl-2-pentanone	0.100	ND	NS	NS	NS	NS	NS		0.100	ND	ND	ND	NS
17	Acetone	0.100	ND	NS	NS	NS	NS	NS	6	0.100	.0072 J	ND	ND	NS
18	Acrylonitrile	0.200	ND	NS	NS	NS	NS	NS		0.200	ND	ND	ND	NS
19	Benzene	0.001	ND	NS	NS	NS	NS	NS	0.001	0.001	ND	ND	ND	NS
20	Bromochloromethane	0.003	ND	NS	NS	NS	NS	NS		0.003	ND	ND	ND	NS
21	Bromodichloromethane	0.001	ND	NS	NS	NS	NS	NS	0.0006	0.001	ND	ND	ND	NS
22	Bromoform	0.003	ND	NS	NS	NS	NS	NS	0.004	0.003	ND	ND	ND	NS
23	Bromomethane (Methyl bromide)	0.010	ND	NS	NS	NS	NS	NS		0.010	ND	ND	ND	NS
24	Carbon disulfide	0.100	ND	NS	NS	NS	NS	NS	0.7	0.100	ND	ND	ND	NS
25	Carbon tetrachloride	0.001	ND	NS	NS	NS	NS	NS	0.0003	0.001	ND	ND	ND	NS
26	Chlorobenzene	0.003	ND	NS	NS	NS	NS	NS	0.05	0.003	ND	ND	ND	NS
27	Chloroethane	0.010	ND	NS	NS	NS	NS	NS	3.00	0.010	ND	ND	ND	NS
28	Chloroform	0.005	ND	NS	NS	NS	NS	NS	0.07	0.005	ND	ND	ND	NS
29	Chloromethane (Methyl chloride)	0.001	ND	NS	NS	NS	NS	NS	0.003	0.001	ND	ND	ND	NS
30	cis-1,2-Dichloroethene	0.005	J	NS	NS	NS	NS	NS	0.07	0.005	ND	ND	ND	NS
31	cis-1,3-Dichloropropene	0.001	ND	NS	NS	NS	NS	NS	0.0004	0.001	ND	ND	ND	NS
32	Dibromochloromethane	0.001	ND	NS	NS	NS	NS	NS	0.0004	0.003	ND	ND	ND	NS
33	Dibromomethane (Methylene bromide)	0.001	ND	NS	NS	NS	NS	NS		0.001	ND	ND	ND	NS
34	Ethylbenzene	0.001	ND	NS	NS	NS	NS	NS	0.600	0.001	ND	ND	ND	NS
35	Iodomethane (Methyl iodide)	0.010	ND	NS	NS	NS	NS	NS		0.010	ND	ND	ND	NS
36	Methylene chloride	0.001	ND	NS	NS	NS	NS	NS	0.005	0.001	ND	ND	ND	NS
37	Styrene	0.001	ND	NS	NS	NS	NS	NS	0.07	0.001	ND	ND	ND	NS
38	Tetrachloroethene	0.001	0.002	NS	NS	NS	NS	NS	0.0007	0.001	0.0023	0.0023	ND	NS
39	Toluene	0.001	ND	NS	NS	NS	NS	NS	0.6	0.001	ND	ND	ND	NS
40	trans-1,2-Dichloroethene	0.005	ND	NS	NS	NS	NS	NS	0.10	0.005	ND	ND	ND	NS
41	trans-1,3-Dichloropropene	0.001	ND	NS	NS	NS	NS	NS	0.0004	0.001	ND	ND	ND	NS
42	trans-1,4-Dichloro-2-butene	0.100	ND	NS	NS	NS	NS	NS		0.100	ND	ND	ND	NS
43	Trichloroethene	0.001	0.0017	NS	NS	NS	NS	NS	0.003	0.001	ND	ND	ND	NS
44	Trichlorofluoromethane	0.001	ND	NS	NS	NS	NS	NS	2	0.001	ND	ND	ND	NS
45	Vinyl acetate	0.050	ND	NS	NS	NS	NS	NS		0.050	ND	ND	ND	NS
46	Vinyl chloride	0.001	ND	NS	NS	NS	NS	NS	0.00003	0.001	ND	ND	ND	NS
47	Xylenes	0.003	J	NS	NS	NS	NS	NS	0.5	0.005	ND	ND	ND	NS
48	Chromium	0.010	J	NS	NS	NS	NS	NS	0.01	0.010	ND	.0014 J	IS	NS
49	Lead	0.010	J	NS	NS	NS	NS	NS	0.015	0.010	.0005 J	.0052 J	IS	NS
50	Nickel	0.050	ND	NS	NS	NS	NS	NS	0.1	0.050	.0030 J	.0027 J	IS	NS

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

CR-1

Monitoring Well: CR-1

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GWStd.	SWSL	1 Mar-2002	2 Sep-2002	3 Mar-2003	4 Sep-2003	5 Mar-2004	6 Sep-2004	7 Mar-2005	8 Sep-2005	9 Mar-2006	10 Sep-2006	SWSL	11 Mar-2007	12 Sep-2007	13 Mar-2008	14 Sep-2008	15 Mar-2009	16 Sep-2009	GWStd.	SWSL	17 Mar-2010	18 Sep-2010	19 Mar-2011	20 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.007	ND	0.011	0.008	0.0092	0.005	ND	ND	0.0078	0.0079	0.001	0.0091	ND	0.012	0.0069	0.0126	0.004 J	0.006	0.005	0.0076	.0022 J	0.0084	0.0035 J
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.0002 J	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	ND	0.0026 J	0.0023 J	0.0031 J	0.0016 J	3.00	0.010	0.0028 J	.0014 J	0.0038 J	0.0020 J
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.002	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	J	J	0.0016 J	0.0011 J	0.0018 J	0.0006 J	0.07	0.005	.0009 J	.0004 J	0.0013 J	0.0005 J
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	J	ND	0.0005 J	0.0002 J	0.0006 J	ND	0.6	0.001	.0004 J	ND	0.0005 J	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	0.001	ND	0.0011	ND	ND	ND	ND	ND	0.001	J	ND	0.0009 J	0.0005 J	0.0012	0.0003 J	0.003	0.001	.0007 J	ND	0.0007 J	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.0009 J	0.0004 J	2	0.001	.0004 J	ND	0.0004 J	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.0007 J	0.0002 J	0.00003	0.001	.0005 J	ND	0.0004 J	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	0.0023 J	ND	ND	ND	0.01	0.010	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	0.015	0.010	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND	0.0049 J	ND	ND	ND	0.1	0.050	ND	ND	ND	ND

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Historical Summary of Detections

SW-2

Monitoring Well: SW-2

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	1 Mar-2002	2 Sep-2002	3 Mar-2003	4 Sep-2003	5 Mar-2004	6 Sep-2004	7 Mar-2005	8 Sep-2005	9 Mar-2006	10 Sep-2006	SWSL	11 Mar-2007	12 Sep-2007	13 Mar-2008	14 Sep-2008	15 Mar-2009	16 Sep-2009	GW Std.	SWSL	17 Mar-2010	18 Sep-2010	19 Mar-2011	20 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	J	ND	0.0039 J	0.0022 J	0.0048 J	0.0013 J	0.006	0.005	.0034 J	.0006 J	0.0037 J	0.0012 J
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	0.001	ND	3.00	0.010	.001 J	ND	0.0013 J	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.0014	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	J	ND	0.0007 J	0.0004 J	0.0008 J	0	0.07	0.005	.0006 J	ND	0.0007 J	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.0004 J	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	0.0002 J	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	J	ND	0.0004 J	ND	0.0006 J	ND	0.003	0.001	.0004 J	ND	0.0004 J	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.0004 J	ND	2	0.001	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.0003 J	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	0.0021 J	ND	ND	ND	0.01	0.010	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	0.015	0.010	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	0.0024 J	ND	0.0021 J	ND	0.1	0.050	ND	ND	0.0020 J	ND

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found/reported.

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix F:

Static Water Levels and % LEL

STATIC WATER LEVELS and % LEL-
Newton Landfill
Permit: #18-01

Sampler(s): Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Cloudy 68 - 80°F

Monitoring Point	Sampling Date	Top of Casing (TOC) (feet)	Depths to Water (feet)	Groundwater Elevation (feet)	%LEL (Initial)	%LEL (Final)
MW-1	9/26/2011	916.09	13.85	902.24	0	0
MW-3	9/26/2011	1021.81	29.90	991.91	0	0
MW-4	9/26/2011	912.82	11.45	901.37	0	0
MW-5	9/26/2011	933.54	10.88	922.66	0	0
MW-6	9/26/2011	922.26	18.62	903.64	0	0
MW-7A	9/26/2011	912.48	15.77	896.71	0	0
MW-9	9/26/2011	949.58	36.09	913.49	0	0
MW-10A	9/26/2011	944.11	35.54	908.57	0	0
MW-10B	9/26/2011	945.93	33.02	912.91	0	0
MW-11	9/26/2011	944.70	16.92	927.78	0	0
MW-13	9/26/2011	923.19	17.90	905.29	0	0
MW-14	9/26/2011	1003.63	29.51	974.12	100	100
MW-14A	9/26/2011	1004.46	30.75	973.71	0	0
MW-15	9/26/2011	979.88	22.99	956.89	0	0
MW-15A	9/26/2011	980.82	28.55	952.27	0	0
MW-16	9/26/2011	907.13	8.14	898.99	0	0
MW-16A	9/26/2011	906.14	5.19	900.95	0	0
MW-18	9/26/2011	921.45	16.20	905.25	0	0
MW-19	9/26/2011	913.67	17.04	896.63	0	0
MW-20	9/26/2011	966.19	32.38	933.81	0	0
MW-21	9/26/2011	980.61	20.14	960.47	0	0
MW-22	9/26/2011	1016.33	38.85	977.48	0	0
MW-23	9/26/2011	1016.50	22.49	994.01	0	0
MW-24	9/26/2011	954.14	24.48	929.66	0	0
MW-24D	9/26/2011	953.64	26.88	926.76	0	0
OW-1	9/26/2011	1004.76	29.72	975.04	25	0
OW-2	9/26/2011	1007.99	28.47	979.52	0	0
OW-3	9/26/2011	1010.24	DRY	1010.24	0	0

STATIC WATER LEVELS and % LEL-
Newton Landfill
Permit: #18-01

Sampler(s): Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Cloudy 68 - 80°F

Monitoring Point	Sampling Date	Top of Casing (TOC) (feet)	Depths to Water (feet)	Groundwater Elevation (feet)	%LEL (Initial)	%LEL (Final)
MISCELLANEOUS						
MW-2A	9/26/2011	924.32	20.05	904.27	100	100
MW-7	9/26/2011	913.21	18.33	894.88	0	0
MW-8	9/26/2011	905.49	13.75	891.74	0	0
MW-12	9/26/2011	924.55	17.15	907.40	0	0
MW-17	-		-		-	-
RW-1	9/26/2011	924.97	19.10	905.87	0	0
RW-2	9/26/2011	918.78	16.15	902.63	0	0
RW-3	9/26/2011	911.24	10.27	900.97	100	100

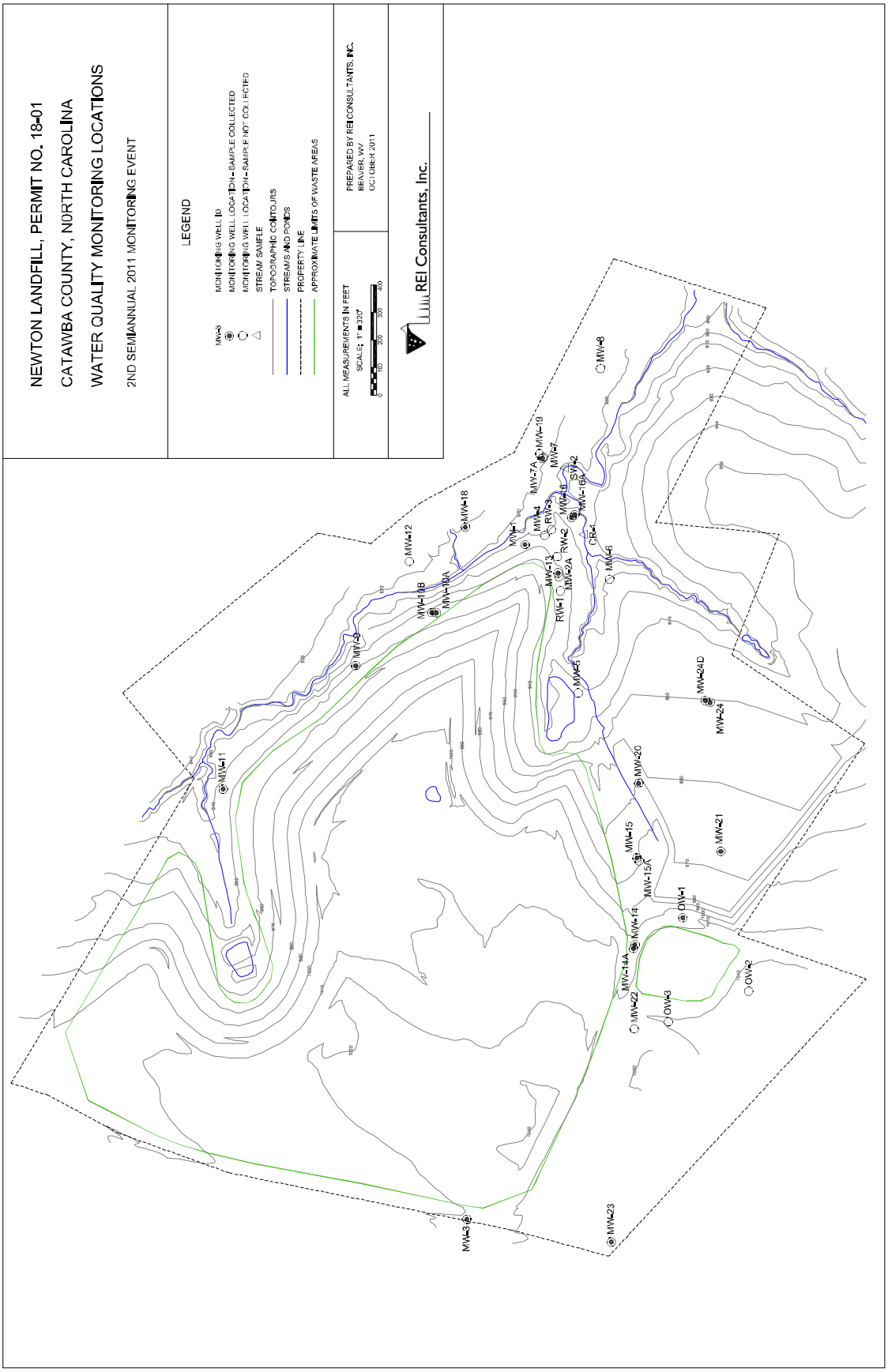
Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix G:

Sampling Locations and Topographical Contours


NEWTON LANDFILL, PERMIT NO. 18-01
CATAWBA COUNTY, NORTH CAROLINA
WATER QUALITY MONITORING LOCATIONS
2ND SEMI-ANNUAL 2011 MONITORING EVENT
LEGEND
MW-9 MONITORING WELL ID
MONITORING WELL LOCATION - SAMPLE COLLECTED
MONITORING WELL LOCATION - SAMPLE NOT COLLECTED
STREAM SAMPLE
TOPOGRAPHIC CONTOURS
STREAMS AND PONDS
PROPERTY LINE
APPROXIMATE LIMITS OF WASTE AREAS
ALL MEASUREMENTS IN FEET
SCALE: 1" = 320'
0 160 320 480
PREPARED BY REI CONSULTANTS, INC.
BEAVER, WV
OCTOBER 2011
REI Consultants, Inc.
MW-8
MW-19
MW-7A
MW-7
SW-2
MW-16A
MW-16
MW-4
RW-3
RW-2
CR-4
MW-6
MW-18
MW-12
MW-10B
MW-10A
MW-13
MW-2A
RW-1
MW-5
MW-3
MW-11
MW-24D
MW-24
MW-20
MW-21
MW-15
MW-15A
OW-1
MW-14
MW-14A
MW-22
OW-3
OW-2
MW-23
MW-3

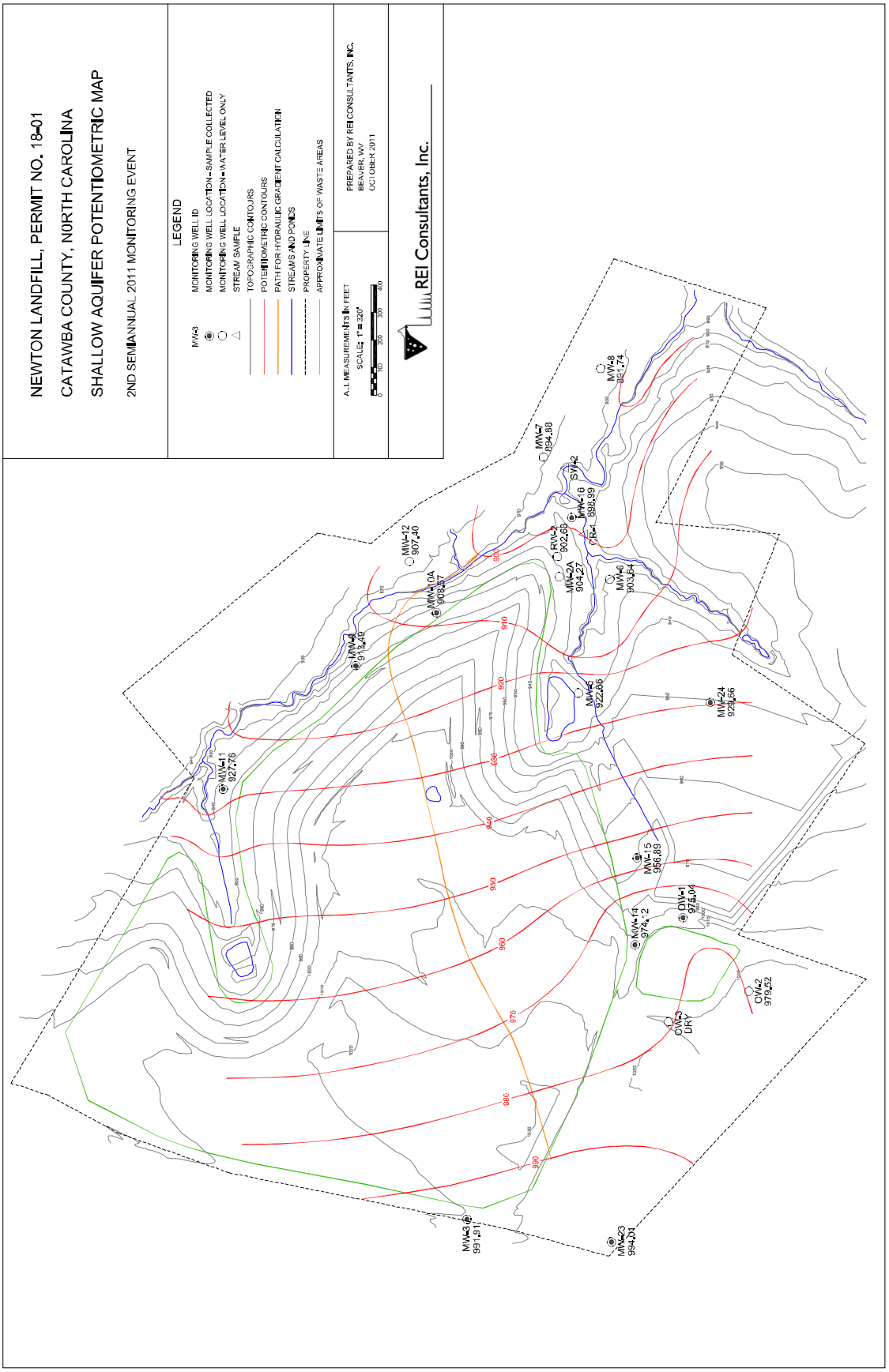
Newton Landfill

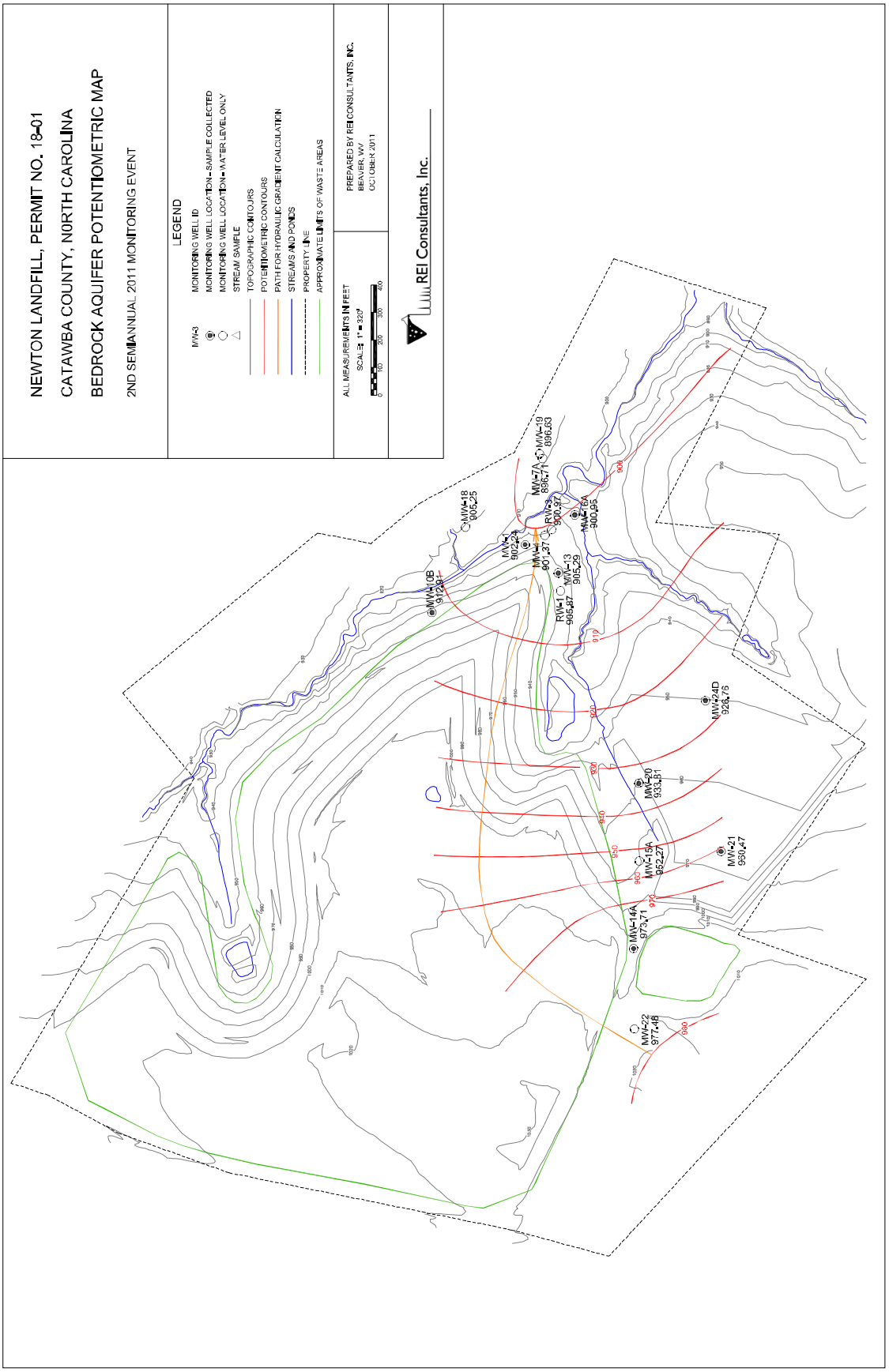
(Catawba County, North Carolina)

Permit Number: 18-01

Appendix H:

Potentiometric Contour Maps


NEWTON LANDFILL, PERMIT NO. 18-01
CATAWBA COUNTY, NORTH CAROLINA
SHALLOW AQUIFER POTENTIOMETRIC MAP
2ND SEMI-ANNUAL 2011 MONITORING EVENT
LEGEND
MW-3 MONITORING WELL ID
MONITORING WELL LOCATION - SAMPLE COLLECTED
MONITORING WELL LOCATION - WATER LEVEL ONLY
STREAM SAMPLE
TOPOGRAPHIC CONTOURS
POTENTIOMETRIC CONTOURS
PATH FOR HYDRAULIC GRADIENT CALCULATION
STREAMS AND PONDS
PROPERTY LINE
APPROXIMATE LIMITS OF WASTE AREAS
ALL MEASUREMENTS IN FEET
SCALE: 1" = 320'
0 160 320 480
PREPARED BY REI CONSULTANTS, INC.
BEAVER, WV
OCTOBER 2011
REI Consultants, Inc.
MW-11 927.78
MW-3 913.49
MW-12 907.40
MW-10A 909.57
MW-7 894.88
SW-2
MW-16 898.99
CR-4
RW-3 902.68
MW-2A 904.27
MW-6 903.64
MW-5 922.66
MW-8 847.74
MW-24 929.56
MW-15 956.89
OW-1 975.04
MW-14 974.12
OW-2 979.52
OW-3 DRY
MW-3A 991.31
MW-23 994.21
910
920
930
940
950
960
970
980
990


NEWTON LANDFILL, PERMIT NO. 18-01
CATAWBA COUNTY, NORTH CAROLINA
BEDROCK AQUIFER POTENTIOMETRIC MAP
2ND SEMI-ANNUAL 2011 MONITORING EVENT
LEGEND
MW-3 MONITORING WELL ID
MONITORING WELL LOCATION - SAMPLE COLLECTED
MONITORING WELL LOCATION - WATER LEVEL ONLY
STREAM SAMPLE
TOPOGRAPHIC CONTOURS
POTENTIOMETRIC CONTOURS
PATH FOR HYDRAULIC GRADIENT CALCULATION
STREAMS AND PONDS
PROPERTY LINE
APPROXIMATE LIMITS OF WASTE AREAS
ALL MEASUREMENTS IN FEET
SCALE: 1" = 320'
0 160 200 300 400
PREPARED BY REI CONSULTANTS, INC.
BEAVER, WV
OCTOBER 2011
REI Consultants, Inc.
MW-18
905.25
MW-10B
912.91
MW-1
902.22
MW-4
901.37
RW-2
900.87
MW-7A
896.71
MW-19
896.63
MW-16A
900.95
RW-1
905.87
MW-13
905.29
MW-24D
926.76
MW-20
933.81
MW-15A
952.27
MW-21
950.47
MW-14A
973.71
MW-22
977.48

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix I:

Vertical Gradient Calculations

VERTICAL GRADIENT CALCULATIONS

Newton Landfill (Closed Facility)

2nd Semi-Annual Groundwater Monitoring Event 2011

Well Identification Number (Well ID)	Well Location East Coordinate (Easting) (Feet)	Well Location North Coordinate (Northing) (Feet)	Ground Surface Elevation (Feet above MSL)	Top of Casing Elevation (TOC) (Feet above MSL)	Lithology of Materials in Screened Zone	Measured Depth of Groundwater From TOC (Feet)	Elevation of Groundwater (Feet above MSL)	Elevation of Top of Screen (Feet above MSL)	Elevation of Bottom of Screen (Feet above MSL)	Mid-Point Elevation of Wetted Portion of Well Screen (Saturated Screen Mid-Point Elevation) (Feet above MSL)
MW-2A	1359171.20	699131.50	921.12	924.32	Sediment	20.05	904.27	911.12	901.12	906.12
MW-13	1359184.60	699134.60	921.69	923.19	Rock	17.90	905.29	856.69	846.69	851.69

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-2A TO MW-13	-1.02	54.43	-0.019	DISCHARGE

MW-7	1359605.50	699187.80	910.31	913.21	Sediment	18.33	894.88	897.01	887.01	892.01
MW-7A	1359601.00	699191.40	909.48	912.48	Rock	15.77	896.71	843.48	833.48	838.48
MW-19	1359617.60	699201.90	911.36	913.67	Rock? No Log	17.04	896.63	805.17	795.17	800.17

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-7 TO MW-7A	-1.83	53.53	-0.034	DISCHARGE
MW-7A TO MW-19	0.08	38.31	0.002	RECHARGE
MW-7 TO MW-19	-1.75	91.84	-0.019	DISCHARGE

MW-10A	1359040.10	699576.50	942.61	944.11	Sediment	35.54	908.57	904.61	894.61	899.61
MW-10B	1359041.30	699592.60	942.60	945.93	Rock	33.02	912.91	868.15	858.15	863.15

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-10A TO MW-10B	-4.34	36.46	-0.119	DISCHARGE

MW-14	1357834.90	698855.70	1002.13	1003.63	Sediment	29.51	974.12	979.13	969.13	971.63
MW-14A	1357821.20	698861.10	1002.46	1004.46	Rock? No Log	30.75	973.71	929.46	919.46	924.46

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-14 TO MW-14A	0.41	47.165	0.009	RECHARGE

MW-15	1358150.40	698848.20	977.60	979.88	Sediment	22.99	956.89	955.60	945.60	950.60
MW-15A	1358139.90	698840.70	978.54	980.82	Rock? No Log	28.55	952.27	908.54	898.54	903.54

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-15 TO MW-15A	4.62	47.06	0.098	RECHARGE

MW-16	1359385.20	699085.70	905.63	907.13	Sediment? No Log	8.14	898.99	897.63	887.63	892.63
MW-16A	1359395.60	699074.50	904.14	906.14	Rock	5.19	900.95	833.84	823.84	828.84

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-16 TO MW-16A	-1.96	63.79	-0.031	DISCHARGE

MW-24	1358715.00	698582.70	951.20	954.14	Sediment	24.48	929.66	927.70	917.70	922.70
MW-24D	1358722.10	698600.00	950.23	953.64	Rock? No Log	26.88	926.76	877.60	867.60	872.60

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-24 TO MW-24D	2.90	50.1	0.058	RECHARGE

Abbreviations: DH: Difference In Groundwater Elevation (Head), Upper Screen Minus Lower Screen

DZ: Difference In Saturated Well Screen Mid-Point Elevations, Upper Screen Minus Lower Screen

DH/DZ: DH Divided By DZ = Vertical Gradient

MSL - mean sea level

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix I:

Vertical Gradient Calculations

VERTICAL GRADIENT CALCULATIONS

Newton Landfill (Closed Facility)

2nd Semi-Annual Groundwater Monitoring Event 2011

Well Identification Number (Well ID)	Well Location East Coordinate (Easting) (Feet)	Well Location North Coordinate (Northing) (Feet)	Ground Surface Elevation (Feet above MSL)	Top of Casing Elevation (TOC) (Feet above MSL)	Lithology of Materials in Screened Zone	Measured Depth of Groundwater From TOC (Feet)	Elevation of Groundwater (Feet above MSL)	Elevation of Top of Screen (Feet above MSL)	Elevation of Bottom of Screen (Feet above MSL)	Mid-Point Elevation of Wetted Portion of Well Screen (Saturated Screen Mid-Point Elevation) (Feet above MSL)
MW-2A	1359171.20	699131.50	921.12	924.32	Sediment	20.05	904.27	911.12	901.12	906.12
MW-13	1359184.60	699134.60	921.69	923.19	Rock	17.90	905.29	856.69	846.69	851.69

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-2A TO MW-13	-1.02	54.43	-0.019	DISCHARGE

MW-7	1359605.50	699187.80	910.31	913.21	Sediment	18.33	894.88	897.01	887.01	892.01
MW-7A	1359601.00	699191.40	909.48	912.48	Rock	15.77	896.71	843.48	833.48	838.48
MW-19	1359617.60	699201.90	911.36	913.67	Rock? No Log	17.04	896.63	805.17	795.17	800.17

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-7 TO MW-7A	-1.83	53.53	-0.034	DISCHARGE
MW-7A TO MW-19	0.08	38.31	0.002	RECHARGE
MW-7 TO MW-19	-1.75	91.84	-0.019	DISCHARGE

MW-10A	1359040.10	699576.50	942.61	944.11	Sediment	35.54	908.57	904.61	894.61	899.61
MW-10B	1359041.30	699592.60	942.60	945.93	Rock	33.02	912.91	868.15	858.15	863.15

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-10A TO MW-10B	-4.34	36.46	-0.119	DISCHARGE

MW-14	1357834.90	698855.70	1002.13	1003.63	Sediment	29.51	974.12	979.13	969.13	971.63
MW-14A	1357821.20	698861.10	1002.46	1004.46	Rock? No Log	30.75	973.71	929.46	919.46	924.46

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-14 TO MW-14A	0.41	47.165	0.009	RECHARGE

MW-15	1358150.40	698848.20	977.60	979.88	Sediment	22.99	956.89	955.60	945.60	950.60
MW-15A	1358139.90	698840.70	978.54	980.82	Rock? No Log	28.55	952.27	908.54	898.54	903.54

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-15 TO MW-15A	4.62	47.06	0.098	RECHARGE

MW-16	1359385.20	699085.70	905.63	907.13	Sediment? No Log	8.14	898.99	897.63	887.63	892.63
MW-16A	1359395.60	699074.50	904.14	906.14	Rock	5.19	900.95	833.84	823.84	828.84

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-16 TO MW-16A	-1.96	63.79	-0.031	DISCHARGE

MW-24	1358715.00	698582.70	951.20	954.14	Sediment	24.48	929.66	927.70	917.70	922.70
MW-24D	1358722.10	698600.00	950.23	953.64	Rock? No Log	26.88	926.76	877.60	867.60	872.60

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-24 TO MW-24D	2.90	50.1	0.058	RECHARGE

Abbreviations: DH: Difference In Groundwater Elevation (Head), Upper Screen Minus Lower Screen

DZ: Difference In Saturated Well Screen Mid-Point Elevations, Upper Screen Minus Lower Screen

DH/DZ: DH Divided By DZ = Vertical Gradient

MSL - mean sea level

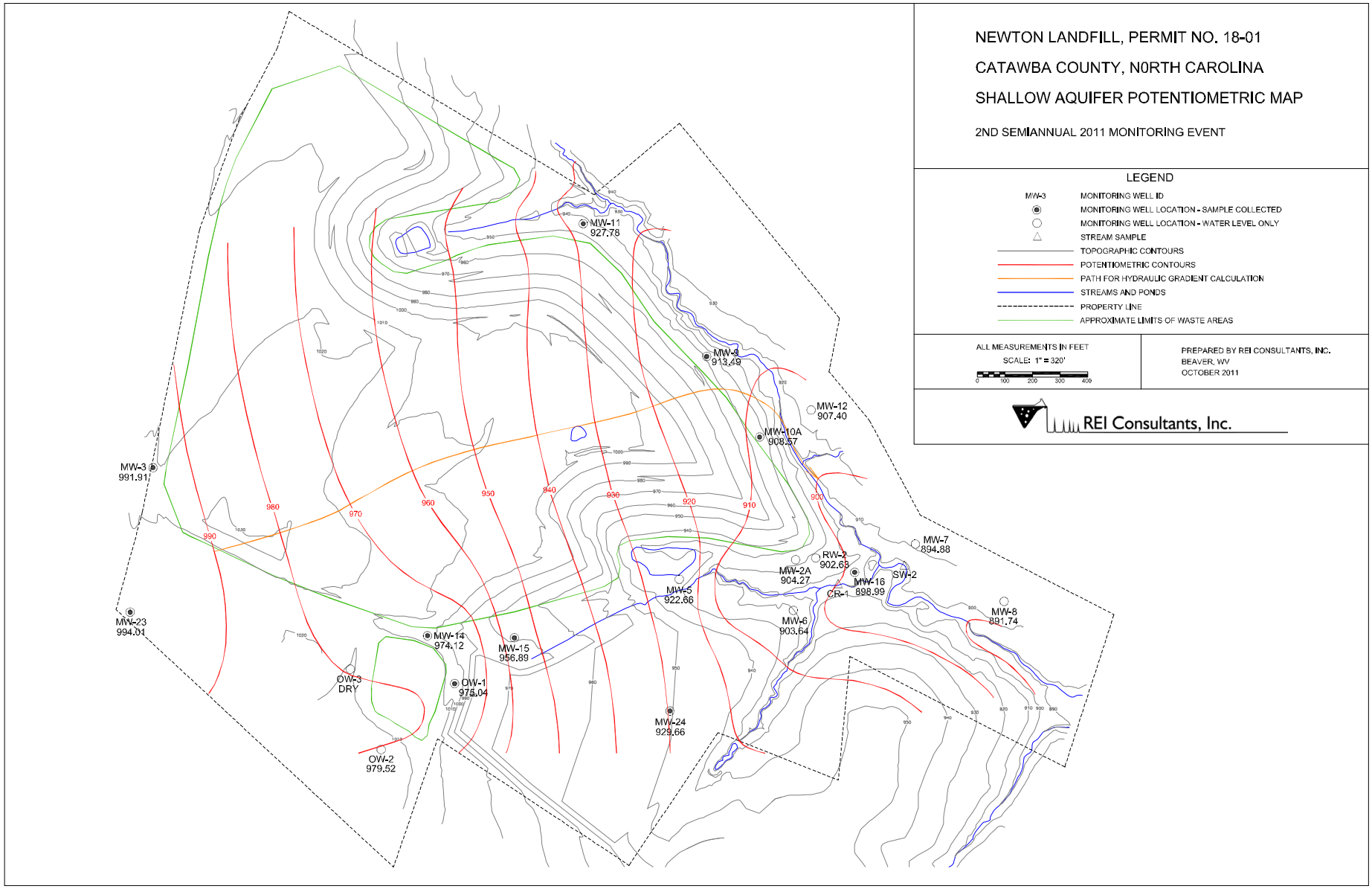
Newton Landfill

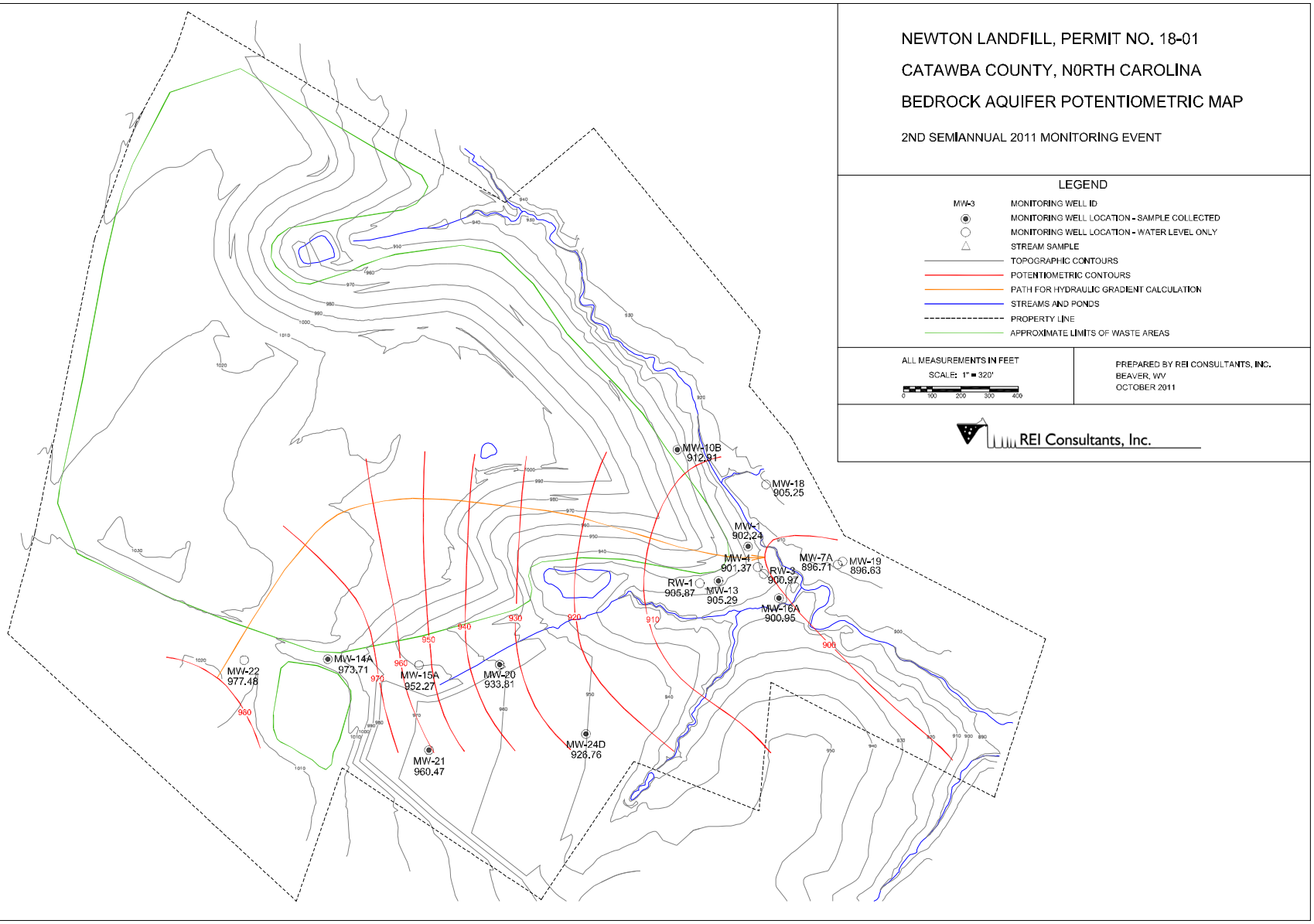
(Catawba County, North Carolina)

Permit Number: 18-01

Appendix H:

Potentiometric Contour Maps


NEWTON LANDFILL, PERMIT NO. 18-01
CATAWBA COUNTY, N0RTH CAROLINA
SHALLOW AQUIFER POTENTIOMETRIC MAP
2ND SEMIANNUAL 2011 MONITORING EVENT
LEGEND
MW-3 MONITORING WELL ID
MONITORING WELL LOCATION - SAMPLE COLLECTED
MONITORING WELL LOCATION - WATER LEVEL ONLY
STREAM SAMPLE
TOPOGRAPHIC CONTOURS
POTENTIOMETRIC CONTOURS
PATH FOR HYDRAULIC GRADIENT CALCULATION
STREAMS AND PONDS
PROPERTY LINE
APPROXIMATE LIMITS OF WASTE AREAS
ALL MEASUREMENTS IN FEET
SCALE: 1" = 320'
0 100 200 300 400
PREPARED BY REI CONSULTANTS, INC.
BEAVER, WV
OCTOBER 2011
REI Consultants, Inc.
MW-11 927.78
MW-9 913.49
MW-12 907.40
MW-10A 908.57
MW-3 991.91
MW-7 894.88
RW-2 902.63
MW-2A 904.27
MW-16 898.99
SW-2
CR-1
MW-5 922.66
MW-6 903.64
MW-8 891.74
MW-23 994.01
MW-14 974.12
MW-15 956.89
OW-3 DRY
OW-1 975.04
MW-24 929.66
OW-2 979.52
990
980
970
960
950
940
930
920
910
900


NEWTON LANDFILL, PERMIT NO. 18-01
CATAWBA COUNTY, N0RTH CAROLINA
BEDROCK AQUIFER POTENTIOMETRIC MAP
2ND SEMIANNUAL 2011 MONITORING EVENT
LEGEND
MW-3 MONITORING WELL ID
MONITORING WELL LOCATION - SAMPLE COLLECTED
MONITORING WELL LOCATION - WATER LEVEL ONLY
STREAM SAMPLE
TOPOGRAPHIC CONTOURS
POTENTIOMETRIC CONTOURS
PATH FOR HYDRAULIC GRADIENT CALCULATION
STREAMS AND PONDS
PROPERTY LINE
APPROXIMATE LIMITS OF WASTE AREAS
ALL MEASUREMENTS IN FEET
SCALE: 1" = 320'
0 100 200 300 400
PREPARED BY REI CONSULTANTS, INC.
BEAVER, WV
OCTOBER 2011
REI Consultants, Inc.
MW-10B 912.91
MW-18 905.25
MW-1 902.24
MW-4 901.37
MW-7A 896.71
MW-19 896.63
RW-3 900.97
RW-1 905.87
MW-13 905.29
MW-16A 900.95
MW-14A 973.71
MW-22 977.48
MW-15A 952.27
MW-20 933.81
MW-24D 926.76
MW-21 960.47

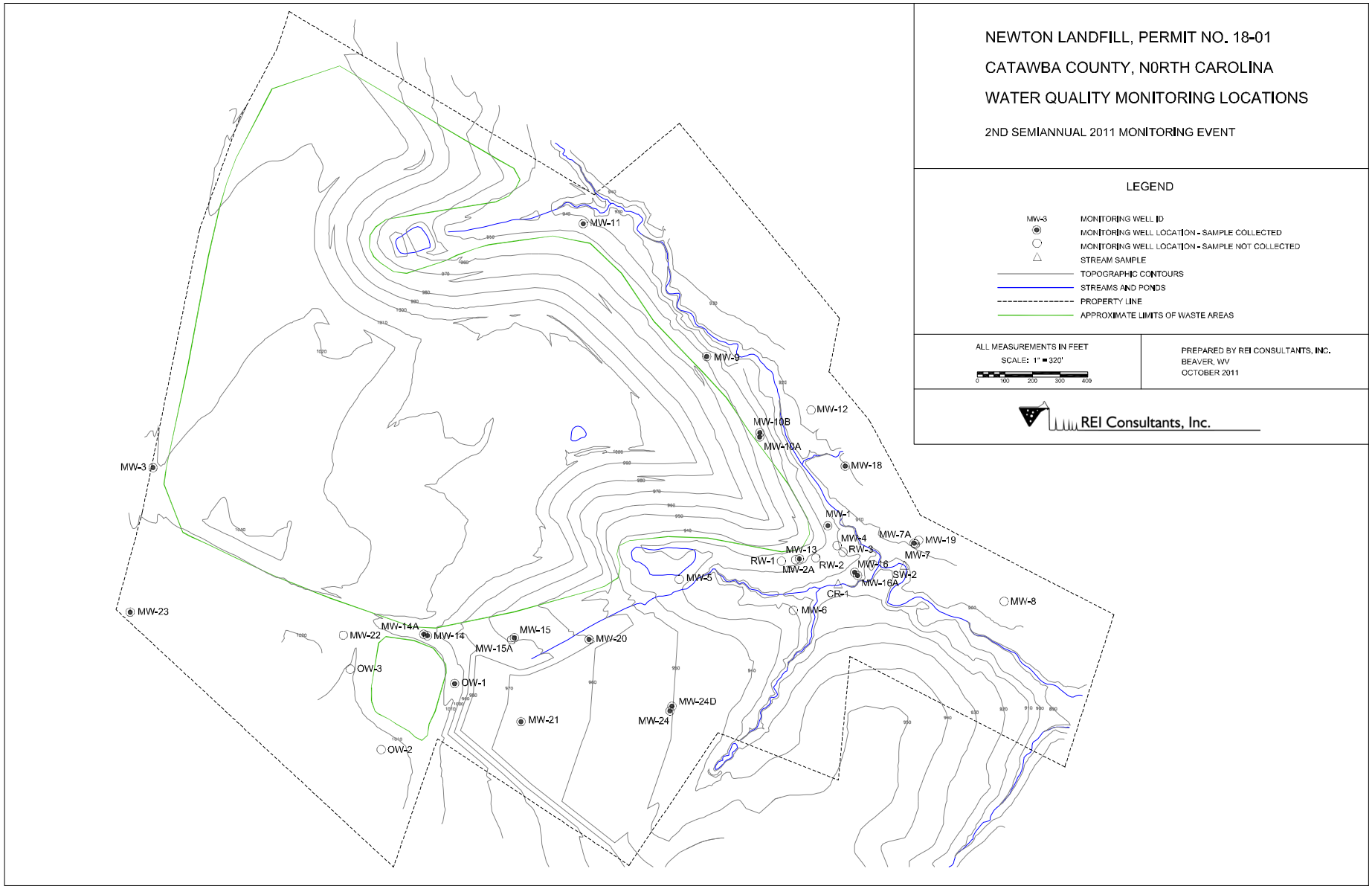
Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix G:

Sampling Locations and Topographical Contours


NEWTON LANDFILL, PERMIT NO. 18-01
CATAWBA COUNTY, N0RTH CAROLINA
WATER QUALITY MONITORING LOCATIONS
2ND SEMIANNUAL 2011 MONITORING EVENT
LEGEND
MW-3 MONITORING WELL ID
MONITORING WELL LOCATION - SAMPLE COLLECTED
MONITORING WELL LOCATION - SAMPLE NOT COLLECTED
STREAM SAMPLE
TOPOGRAPHIC CONTOURS
STREAMS AND PONDS
PROPERTY LINE
APPROXIMATE LIMITS OF WASTE AREAS
ALL MEASUREMENTS IN FEET
SCALE: 1" = 320'
0 100 200 300 400
PREPARED BY REI CONSULTANTS, INC.
BEAVER, WV
OCTOBER 2011
REI Consultants, Inc.
MW-11
MW-9
MW-12
MW-10B
MW-10A
MW-18
MW-3
MW-1
MW-4
MW-7A
MW-19
MW-13
RW-3
MW-7
RW-1
MW-2A
RW-2
MW-16
SW-2
MW-16A
MW-5
CR-1
MW-8
MW-6
MW-23
MW-14A
MW-22
MW-14
MW-15
MW-15A
MW-20
OW-3
OW-1
MW-24D
MW-21
MW-24
OW-2

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix F:

Static Water Levels and % LEL

STATIC WATER LEVELS and % LEL-
Newton Landfill
Permit: #18-01

Sampler(s): Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Cloudy 68 - 80°F

Monitoring Point	Sampling Date	Top of Casing (TOC) (feet)	Depths to Water (feet)	Groundwater Elevation (feet)	%LEL (Initial)	%LEL (Final)
MW-1	9/26/2011	916.09	13.85	902.24	0	0
MW-3	9/26/2011	1021.81	29.90	991.91	0	0
MW-4	9/26/2011	912.82	11.45	901.37	0	0
MW-5	9/26/2011	933.54	10.88	922.66	0	0
MW-6	9/26/2011	922.26	18.62	903.64	0	0
MW-7A	9/26/2011	912.48	15.77	896.71	0	0
MW-9	9/26/2011	949.58	36.09	913.49	0	0
MW-10A	9/26/2011	944.11	35.54	908.57	0	0
MW-10B	9/26/2011	945.93	33.02	912.91	0	0
MW-11	9/26/2011	944.70	16.92	927.78	0	0
MW-13	9/26/2011	923.19	17.90	905.29	0	0
MW-14	9/26/2011	1003.63	29.51	974.12	100	100
MW-14A	9/26/2011	1004.46	30.75	973.71	0	0
MW-15	9/26/2011	979.88	22.99	956.89	0	0
MW-15A	9/26/2011	980.82	28.55	952.27	0	0
MW-16	9/26/2011	907.13	8.14	898.99	0	0
MW-16A	9/26/2011	906.14	5.19	900.95	0	0
MW-18	9/26/2011	921.45	16.20	905.25	0	0
MW-19	9/26/2011	913.67	17.04	896.63	0	0
MW-20	9/26/2011	966.19	32.38	933.81	0	0
MW-21	9/26/2011	980.61	20.14	960.47	0	0
MW-22	9/26/2011	1016.33	38.85	977.48	0	0
MW-23	9/26/2011	1016.50	22.49	994.01	0	0
MW-24	9/26/2011	954.14	24.48	929.66	0	0
MW-24D	9/26/2011	953.64	26.88	926.76	0	0
OW-1	9/26/2011	1004.76	29.72	975.04	25	0
OW-2	9/26/2011	1007.99	28.47	979.52	0	0
OW-3	9/26/2011	1010.24	DRY	1010.24	0	0

STATIC WATER LEVELS and % LEL-

Newton Landfill

Permit: #18-01

Sampler(s): Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Cloudy 68 - 80°F

Monitoring Point	Sampling Date	Top of Casing (TOC) (feet)	Depths to Water (feet)	Groundwater Elevation (feet)	%LEL (Initial)	%LEL (Final)
MISCELLANEOUS						
MW-2A	9/26/2011	924.32	20.05	904.27	100	100
MW-7	9/26/2011	913.21	18.33	894.88	0	0
MW-8	9/26/2011	905.49	13.75	891.74	0	0
MW-12	9/26/2011	924.55	17.15	907.40	0	0
MW-17	-		-		-	-
RW-1	9/26/2011	924.97	19.10	905.87	0	0
RW-2	9/26/2011	918.78	16.15	902.63	0	0
RW-3	9/26/2011	911.24	10.27	900.97	100	100

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix E:

Historical Summary of Detections

Historical Summary of Detections

MW-1

Monitoring Well: MW-1

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	0.0258	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.113	0.342	0.211	0.168	0.493	0.257	0.38	0.259	0.182	0.136	0.142	0.144	0.001	0.113	0.106	0.242	0.248	0.17	0.181	0.006	0.005	0.117	0.206	0.162	0.227
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	0.0054	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	0.0034	ND	ND	0.0018	ND	0.0019	0.001	ND	0.0022	0.005	ND	ND	ND	0.0006	0.001	ND	0.0057	ND	0.0061
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	J	ND	0.0016	ND	ND	0.006	0.001	ND	0.0017	0.0011	0.0018
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	0.369	6.49	1.71	1.01	1.98	2.36	3.63	2.98	2.58	1.74	1.31	1.89	0.100	2.3	1.41	5.36	ND	5.4	ND	4.00	0.100	0.498	ND	9.47	13.5
15	2-Hexanone	mg/L		0.050	ND	0.151	0.105	0.080	0.104	0.237	0.115	0.099	0.079	0.066	ND	0.0606	0.050	0.0598	0.0807	0.132	0.192	0.183	0.169 J		0.050	0.103	0.189	0.110	0.172
16	4-Methyl-2-pentanone	mg/L		0.050	ND	0.424	0.183	0.095	0.158	0.16	0.255	0.318	0.298	0.192	0.173	0.239	0.100	0.225	0.187	0.491	0.581	0.718	0.857 J		0.100	0.703	1.15	0.908	1.23
17	Acetone	mg/L	0.7	0.050	0.371	5.94	1.46	0.547	2.18	2.43	3.35	2.31	ND	1.4	2.22	1.04	0.100	0.945	0.924	4.83	6.46	3.04	4.76	6	0.100	3.27	5.22	7.29	12.3
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.006	0.011	0.009	0.010	0.013	0.012	0.012	0.012	0.011	0.010	0.010	0.010	0.001	0.010	0.013	0.014	0.014	0.014	0.0154	0.001	0.001	0.0132	0.0141	0.0147	0.0146
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	0.0002 J	ND	ND	0.05	0.003	ND	0.0002 J	ND	0.0002 J
27	Chloroethane	mg/L	2.80	0.005	0.043	ND	ND	ND	ND	ND	0.25	0.145	ND	ND	ND	0.192	0.010	0.301	0.372	0.472	0.426	0.248	0.402	3.00	0.010	0.322	0.337	0.374	0.168
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.09	0.001	ND	0.0078	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	0.014	0.017	0.019	0.022	0.025	0.0221	0.020	0.019	0.015	0.010	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0038	ND	ND	0.001	0.0066	0.014	0.0209	0.0237	0.0205	0.0265	0.600	0.001	0.0159	0.0236	0.0147	0.0246
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	0.006	ND	0.007	0.004	0.0086	0.024	0.003	0.005	ND	ND	0.001	ND	ND	0.0207	0.026	0.0128	0.0119	0.005	0.001	0.0066	0.0164	0.0129	0.0206
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	0.066	0.323	0.599	0.194	0.461	0.195	0.372	0.312	0.329	0.441	0.476	0.568	0.001	0.453	0.232	0.527	0.566	0.239	0.25	0.6	0.001	0.185	0.293	0.171	0.195
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	0.002	0.0012	ND	ND	ND	ND	ND	0.001	ND	ND	ND	0.0005 J	ND	ND	0.003	0.001	ND	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0041
45	Vinyl acetate	mg/L		0.025	ND	0.056	ND	ND	ND	ND	ND	ND	0.070	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	0.024	0.099	0.014	0.045	0.173	0.068	0.055	0.043	0.045	ND	0.048	0.031	0.001	ND	ND	ND	0.028	0.023	0.0221	0.00003	0.001	0.0213	ND	0.0210	0.0171
47	Xylenes	mg/L	0.53	0.005	0.005	0.011	0.020	0.016	0.019	0.022	0.021	0.021	0.020	0.019	0.019	0.016	0.003	0.018	ND	0.031	0.033	0.029	0.0172	0.5	0.005	0.0259	0.0386	0.0276	0.0399
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	J	0.0037 J	0.0038 J	0.0025 J	0.0030 J	0.01	0.010	.0021 J	.0033 J	0.0062 J	0.0054 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	0.0004 J	0.0004 J	ND	0.0005 J	0.015	0.010	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0783	0.050	J	J	0.0258	0.0401 J	0.0313 J	0.0423 J	0.1	0.050	.0349 J	.0442 J	0.0485 J	0.0506

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-3

Monitoring Well: MW-3

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	0.0576 J	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.005	0.007	0.006	0.012	0.005	ND	0.0306	0.029	0.029	0.041	0.026	0.0278	0.001	0.0296	0.0351	0.0336	0.0406	0.0248	0.0277	0.006	0.005	0.0292	0.0338	0.0410	0.0504
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	J	J	0.0042 J	0.0036 J	0.0044 J	0.0039 J	0.007	0.005	0.0041 J	.0027 J	0.0032 J	0.0027 J
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	0.041	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	0.0006 J
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	0.0587
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	0.0144 J
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	0.0072 J	6	0.100	ND	ND	0.0154 J	0.0999
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.001	ND	0.0015	0.001	0.0011	0.0015	0.0012	0.0012	0.001	0.0011	0.001	0.001	0.0012	0.0019	0.0021	0.0020
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	0.0007 J	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	0.003	J	ND	0.0036 J	0.0027 J	0.0023 J	3.00	0.010	ND	.0030 J	0.0039 J	0.0072 J
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	J	ND	0.0007 J	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	J	J	0.0005 J	0.0008 J	0.0006 J	0.0006 J	0.07	0.005	0.0006 J	.0017 J	0.0022 J	0.0024 J
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	0.004	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	0.0006 J	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	0.0002 J
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.0021	0.0061	0.0008 J	ND	ND	0.0048	0.005	0.001	0.0173	0.0029	0.0021	0.0009 J
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	0.001	0.001	0.0042	0.003	0.003	0.0044	0.0018	0.0017	0.001	0.0018	0.0036	0.003	0.0028	0.0024	0.0018	0.0007	0.001	0.0009 J	0.0023	0.0028	0.0033
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	0.0006 J	ND	ND	0.6	0.001	ND	.0004 J	0.0005 J	0.0008 J
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	0.003 J	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	0.0019	0.0018	0.002	0.0030	0.0022	0.0034	0.001	0.0031	0.0040	0.0041	0.0043	0.0042	0.0032	0.003	0.001	0.003	0.0038	0.0049	0.0048
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0016
45	Vinyl acetate	mg/L		0.025	ND	ND	0.016	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	0.0011	0.001 J	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	0.0056	0.003	0.0049	0.0079	0.0056	0.0064	0.0061	0.0051	0.5	0.005	0.006	0.0079	0.0097 J	0.0125
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	ND	0.0029 J	0.0015 J	0.0011 J	ND	0.01	0.010	ND	.0010 J	0.0019 J	0.0011 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	J	0.0035 J	0.0043 J	0.0023 J	0.0010 J	0.015	0.010	0.0014 J	.0014 J	0.0014 J	0.0013 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	J	J	0.0063 J	0.0055 J	0.0044 J	0.0040 J	0.1	0.050	0.0062 J	.0051 J	0.0056 J	0.0068 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-7A

Monitoring Well: MW-7A

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011	
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND				0.005	ND			ND	
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.2	0.001	ND			ND	
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND				0.003	ND			ND	
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND				0.001	ND			ND	
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.006	0.005	ND			ND	
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.007	0.005	ND			ND	
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0000050	0.001	ND			ND	
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00004	0.013	ND			ND	
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00002	0.001	ND			ND	
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.02	0.005	ND			ND	
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND	
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0006	0.001	ND			ND	
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.006	0.001	ND			ND	
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			4.00	0.100	ND			ND	
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			ND				0.050	ND			ND	
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND				0.100	ND			ND	
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			6	0.100	ND			ND	
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.200	ND			ND				0.200	ND			ND	
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.001	0.001	ND			ND	
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND				0.003	ND			ND	
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0006	0.001	ND			ND	
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.004	0.003	ND			ND	
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND				0.010	ND			ND	
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			0.7	0.100	ND			ND	
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0003	0.001	ND			ND	
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.05	0.003	ND			ND	
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND			3.00	0.010	ND			ND	
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.07	0.005	ND			ND	
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.003	0.001	ND			ND	
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.07	0.005	ND			ND	
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND	
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.003	ND			ND	
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND				0.001	ND			ND	
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.600	0.001	ND			ND	
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND				0.010	ND			ND	
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.005	0.001	ND			ND	
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.07	0.001	ND			ND	
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0007	0.001	ND			ND	
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.6	0.001	ND			ND	
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.10	0.005	ND			ND	
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND	
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND				0.100	ND			ND	
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.003	0.001	ND			ND	
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			2	0.001	ND			ND	
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			ND				0.050	ND			ND	
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00003	0.001	ND			ND	
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.5	0.005	ND			ND	
48	Chromium	mg/L	0.05	0.010	0.015	ND	ND	ND	ND	ND	ND			ND			0.010	J			0.0151			0.01	0.010	0.0041 J			0.0037	J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			0.0013 J			0.015	0.010	0.0006 J			0.0004	J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			0.0085 J			0.1	0.050	0.0025 J			0.0030	J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-9

Monitoring Well: MW-9

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.285	0.213	0.166	0.196	0.524	0.161	0.458	0.313	0.264	0.288	ND	0.432	0.001	0.458	0.359	0.340	0.516	0.508	0.505	0.006	0.005	0.443	0.511	0.476	0.434
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	J	ND	0.0035 J	0.0007 J	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	0.0808	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	0.008	0.008	0.009	0.006	0.022	0.027	0.0204	0.025	0.018	0.0122	ND	0.0226	0.001	ND	0.0258	0.0105	ND	ND	0.0583	0.0004	0.001	ND	0.103	0.0857	0.0691
12	1,2-Dichloropropane	mg/L	0.00051	0.001	0.037	0.022	0.036	0.025	0.071	0.036	0.0415	0.038	0.034	0.0278	0.0386	0.0376	0.001	0.0446	0.0511	0.040	0.0478	0.054	0.0466	0.0006	0.001	0.0483	0.0458	0.0419	0.0289
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	0.005	ND	ND	ND	0.010	ND	ND	ND	ND	ND	0.0054	0.0060	0.001	0.0082	0.0079	0.0063	0.0099	ND	0.0104	0.006	0.001	0.0092	0.0107	0.0083	0.0095
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	0.139	0.414	0.305	0.435	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	0.068	0.064	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	0.0701	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	0.07	0.2	0.127	0.158	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.01	0.007	0.0086	0.007	0.018	0.005	0.0065	0.007	0.008	0.008	0.011	0.014	0.001	0.014	0.013	0.0124	0.0162	0.0143	0.016	0.001	0.001	0.0184	0.0152	0.0204	0.0154
20	Bromochloromethane	mg/L		0.005	ND	ND	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	0.0225	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	J	0.0019 J	0.0015 J	0.0014	0.0015 J	0.05	0.003	0.0014 J	.0016 J	0.0014 J	0.0015 J
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	0.0044 J	0.0027	ND	3.00	0.010	0.0026 J	.0028 J	0.0031 J	0.0033 J
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0012	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.193	0.118	0.139	0.133	0.233	0.087	0.0861	0.097	0.158	0.160	0.245	0.279	0.005	0.330	0.118	0.0055	0.205	0.167	0.154	0.07	0.005	0.454	0.244	0.437	0.175
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	0.008	0.011	0.019	ND	ND	ND	0.008	0.006	0.0124	0.0094	0.001	0.0108	0.0048	0.0072	0.017	0.0089	0.00138	0.600	0.001	0.032	0.0115	0.0134	0.0065
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	1.33	0.071	0.100	ND	1.040	0.824	1.840	0.159	0.160	0.006	0.132	0.007	0.001	0.021	0.004	ND	0.0073	0.0093	0.0047	0.005	0.001	0.0268	0.0086	0.0102	0.0069
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.009	ND	ND	ND	0.019	0.022	0.0224	0.015	0.021	0.0184	0.0116	0.0094	0.001	0.0057	0.0077	0.0068	0.0128	0.0162	0.0014	0.0007	0.001	0.0026	0.0013	0.0008 J	0.0006 J
39	Toluene	mg/L	1.0	0.005	0.182	0.138	0.312	0.391	1.15	0.021	0.0836	0.078	0.109	0.075	0.153	0.0906	0.001	0.058	0.0434	0.152	0.0527	0.0141	0.0238	0.6	0.001	0.0832	0.0516	0.0902	0.0313
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND	ND	ND	0.005	J	J	ND	0.005 J	0.0055	0.0046 J	0.10	0.005	0.0066	0.0073	0.0065	0.0088
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.066	0.028	0.045	0.089	0.061	0.030	0.044	0.035	0.047	0.0351	0.0350	0.0261	0.001	0.0253	0.0166	ND	0.0186	0.0177	0.0117	0.003	0.001	0.0151	0.0031	0.0040	0.0020
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.005	ND	ND	0.011	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0024
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	0.007	0.015	0.015	0.007	0.0158	0.010	0.016	0.0242	0.0161	0.0222	0.001	0.0190	0.2500	0.0144	0.0923	0.143	0.439	0.00003	0.001	0.049	0.141	0.133	0.0823
47	Xylenes	mg/L	0.53	0.005	0.060	0.054	0.068	0.071	0.099	0.012	0.019	0.021	0.043	0.038	0.077	0.070	0.003	0.079	0.044	0.0593	0.1019	0.0537	0.0371	0.5	0.005	0.1371	0.0567	0.0726	0.0493
48	Chromium	mg/L	0.05	0.010	0.032	0.076	0.0198	ND	0.034	0.047	0.0361	ND	ND	ND	ND	ND	0.010	J	J	0.0095 J	0.0157	0.0119	0.032	0.01	0.010	0.0034 J	.0032 J	0.0495	0.0052 J
49	Lead	mg/L	0.015	0.010	ND	0.019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	J	0.0019 J	0.0056 J	0.0030 J	0.0064 J	0.015	0.010	0.0006 J	.0012 J	0.0041 J	0.0014 J
50	Nickel	mg/L	0.1	0.050	0.121	0.105	0.0853	ND	0.254	0.341	0.294	0.210	0.230	0.254	0.626	0.646	0.050	0.638	0.340	0.143	0.342	0.343	0.212	0.1	0.050	0.319	0.221	0.328	0.195

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-10A

Monitoring Well: MW-10A

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	0.108	0.054	0.067	0.225	0.319	0.561	0.209	0.252	0.294	0.378	0.386
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.073	ND	ND	ND	ND	0.005	0.0052	ND	0.006	0.0075	0.0075	0.0066
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	0.005	0.007	0.006	0.006	0.007	0.009	0.008	0.007	0.009	0.0074	ND	0.0074
12	1,2-Dichloropropane	mg/L	0.00051	0.001	0.005	0.008	0.006	0.006	0.015	0.027	0.0327	0.027	0.031	0.0303	0.0295	0.0318
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	0.0052	ND	0.005	0.005	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	0.003	0.006	0.0064	0.005	0.007	0.007	0.008	0.008
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.047	0.06	0.041	0.042	0.069	0.092	0.0897	0.099	0.117	0.112	0.124	0.134
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	0.007	0.021	0.007	0.003	0.001	0.002	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.005	ND	ND	ND	0.006	0.011	0.0111	0.005	0.007	0.0083	0.006	0.005
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.011	0.006	0.012	0.007	0.025	0.062	0.0457	0.019	0.021	0.0208	0.023	0.013
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.018	0.024	0.023	0.015	0.006	0.016	0.0125	0.007	0.014	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	0.0112	0.005	0.009	0.0162	0.0152	0.0158
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	0.048	0.021	0.0161	0.023	0.017	0.046	0.0958	0.043	ND	ND	0.01	0.0274
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	0.072	ND	ND	ND	ND	ND	ND

	Parameter	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	.0006 J	ND	ND
5	1,1-Dichloroethane	0.001	0.358	0.242	0.156	0.156	0.187	0.242	0.006	0.005	0.353	0.444	0.372	0.177
6	1,1-Dichloroethene	0.005	0.0063	0.0074	0.0049 J	0.0036 J	0.0029 J	0.0018 J	0.007	0.005	.0015 J	.0010 J	ND	ND
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	0.008	ND	ND	ND
11	1,2-Dichloroethane	0.001	ND	0.0106	0.010	0.0086	ND	0.078	0.0004	0.001	ND	0.0102	0.0107	0.0087
12	1,2-Dichloropropane	0.001	0.0305	0.026	0.0174	0.0151	0.0167	0.0225	0.0006	0.001	0.0296	0.0333	0.0252	0.0225
13	1,4-Dichlorobenzene	0.001	0.0054	0.0066	0.0044	0.0041	0.0048	0.0053	0.006	0.001	0.0058	0.0081	0.0061	0.0078
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	0.0068	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	0.001	0.008	0.009	0.0063	0.0055	0.0066	ND	0.001	0.001	0.008	0.0081	0.0081	0.0067
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	0.0044 J	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	0.003	J	J	0.0011 J	0.001 J	0.0011 J	0.0009 J	0.05	0.003	.001 J	.0011 J	0.0010 J	0.0011 J
27	Chloroethane	0.010	J	J	ND	0.0013 J	0.0016	0.0021 J	3.00	0.010	.0025 J	.0025 J	0.0030 J	0.0023 J
28	Chloroform	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	0.005	0.114	0.12	0.101	0.0861	0.0823	0.0606	0.07	0.005	0.0585	0.0438	0.0108	0.0061
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	.0007 J	ND	ND
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	0.001	0.009	0.008	0.0053	0.0057	0.0067	0.003	0.0007	0.001	0.0051	0.0031	0.0017	0.0013
39	Toluene	0.001	ND	ND	ND	0.0003 J	0.0003 J	0.0004 J	0.6	0.001	.0004 J	.0005 J	0.0017	0.0004 J
40	trans-1,2-Dichloroethene	0.005	ND	ND	0.0021 J	0.0012 J	0.0016 J	0.0014 J	0.10	0.005	.0017 J	.0022 J	0.0017 J	0.0014 J
41	trans-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	.0003 J	ND	ND
42	trans-1,4-Dichloro-2-butene	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	0.001	0.015	0.009	0.0022	0.0018	0.0036	0.0054	0.003	0.001	0.0074	0.0048	0.0010	0.0004 J
44	Trichlorofluoromethane	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0019
45	Vinyl acetate	0.050	ND	0.0191	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	0.001	0.0146	ND	0.0137	0.0355	0.0608	0.0705	0.00003	0.001	0.0851	0.0435	0.0182	0.0078
47	Xylenes	0.003	ND	ND	ND	ND	0.0002 J	0.0002 J	0.5	0.005	0.0006 J	.0017 J	0.0017 J	0.0007 J
48	Chromium	0.010	0.0189	J	0.010	0.0094 J	0.0019 J	0.0214	0.01	0.010	0.0352	.0089 J	0.0132	0.0160
49	Lead	0.010	J	J	0.0008 J	0.0011 J	0.0003 J	0.0020 J	0.015	0.010	.0031 J	.0015 J	0.0011 J	0.0019 J
50	Nickel	0.050	J	J	0.0064 J	0.0064 J	0.0058 J	0.0113 J	0.1	0.050	.00153 J	.0099 J	0.0177 J	0.0161 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-10B

Monitoring Well: MW-10B

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.046	0.068	0.042	0.056	0.063	0.059	0.072	0.049	0.054	0.055	0.054	0.060	0.001	0.050	0.039	0.0446	0.0446 J	0.047	0.0376	0.006	0.005	0.00353	0.0271	0.0347	0.0326
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	J	ND	0.0005 J	0.0006 J	0.0007 J	0.0006 J	0.007	0.005	.0006 J	.0005 J	0.0006 J	0.0005 J
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0012	0.0012	0.0011	0.001	0.0011	0.0012	ND	0.001	0.001 J	0.0009 J	0.0006	0.001	.0007 J	.0008 J	0.0008 J	0.0007 J
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	.0004 J	0.0005 J	0.0016
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	0.0046 J	ND	0.0024 J	0.0118 J	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.019	0.013	0.016	0.014	0.012	0.010	0.008	0.008	0.007	0.007	0.007	0.007	0.005	0.007	0.009	0.0074	0.008	0.0093	0.0093	0.07	0.005	0.0108	0.0106	0.0141	0.0135
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	0.002	0.001	0.001	ND	ND	0.001	0.0016	0.0015	0.001 J	0.0019	0.0013	0.001 J	0.005	0.001	0.0014	0.0014	0.0016	0.0014
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.0002 J	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.008	0.008	0.008	0.007	0.005	0.005	0.005	0.005	0.004	0.0043	0.0035	0.0039	0.001	0.0038	0.0045	0.0042	0.0046	0.0053	0.0048	0.003	0.001	0.0049	0.0050	0.0061	0.0054
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0003 J
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	0.009	ND	0.013	ND	ND	ND	ND	0.00118	0.0065	0.0073	0.001	0.0062	0.0075	0.0063	0.0067	0.0059	0.0058	0.00003	0.001	0.0047	0.0039	0.0064	0.0044
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	J	0.0034 J	0.0014 J	ND	ND	0.01	0.010	ND	ND	0.0015 J	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	J	0.0002 J	0.0007 J	0.0002 J	0.0006 J	0.015	0.010	ND	ND	ND	0.0005 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	J	J	0.0029 J	0.0034 J	ND	0.0021 J	0.1	0.050	ND	ND	0.0029 J	0.0033 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-11

Monitoring Well: MW-11

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	0.005	0.006	0.006	0.0067	0.0082
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0026	ND	0.0037
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	0.001	0.002	0.0018	0.002	0.002	0.002	0.0011	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	0.001	ND	0.0016	0.001	0.004	0.0014	0.0011	0.001
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.01	0.023	0.021	0.022	0.007	0.033	0.0248	0.021	0.025	0.035	0.0269	0.0249
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

	Parameter	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	0.001	0.0063	0.0085	0.0082	0.0096	0.0092	0.0098	0.006	0.005	0.0096	0.0108	0.0122	0.0115
6	1,1-Dichloroethene	0.005	J	ND	0.001 J	0.001 J	0.0012 J	0.0011 J	0.007	0.005	.0001 J	.0012 J	0.0012 J	0.0012 J
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	0.0102	ND	ND	ND
11	1,2-Dichloroethane	0.001	0.0041	0.006	0.0066	0.0068	0.0081	0.0066	0.0004	0.001	ND	0.0088	0.0108	0.0074
12	1,2-Dichloropropane	0.001	0.001	0.001	0.0011	0.0011	0.0013	0.001	0.0006	0.001	0.0010	0.0010	0.0013	0.0010
13	1,4-Dichlorobenzene	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	0.0003 J
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	0.005	J	J	0.0005 J	0.0005 J	0.0007 J	0.0006 J	0.07	0.005	.0007 J	.0007 J	0.0009 J	0.0008 J
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	.0007 J	ND	0.0023	0.0008 J
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	0.001	J	0.0016	0.0016	0.0019	0.0019	0.0012	0.0007	0.001	ND	0.0018	0.0016	0.0021
39	Toluene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	0.001	0.0012	0.0013	0.0014	0.0014	0.0015	0.0012	0.003	0.001	0.0012	0.0013	0.0016	0.0014
44	Trichlorofluoromethane	0.001	0.0173	0.0244	0.0211	0.0298	0.0218	0.0249	2	0.001	0.0228	0.0227	0.0253	0.0196
45	Vinyl acetate	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	0.001	ND	ND	ND	ND	ND	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	0.010	J	J	0.0051 J	0.0057 J	0.0033 J	0.0043 J	0.01	0.010	0.0033 J	.0036 J	0.0031 J	0.0033 J
49	Lead	0.010	ND	J	0.0003 J	0.0013 J	0.0003 J	0.0028 J	0.015	0.010	0.0005 J	.0002 J	0.0003 J	0.0002 J
50	Nickel	0.050	ND	ND	ND	0.0025 J	ND	0.0022 J	0.1	0.050	ND	ND	0.0023 J	0.0023 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-13

Monitoring Well: MW-13

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.01	0.016	0.013	0.016	0.020	0.022	0.030	0.025	0.027	0.031	0.031	0.040	0.001	0.038	0.038	0.038	0.0436	0.0484	0.0401	0.006	0.005	0.0455	0.0344	0.0454	0.0387
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.0038	J	0.004 J	0.004 J	0.0042 J	0.0032 J	0.007	0.005	.0035 J	.0028 J	0.0031 J	0.0026 J
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	0.0003 J
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.0003 J	0.0004 J	0.0004 J	0.0004 J	0.001	0.001	.0005 J	.0004 J	0.0005 J	0.0004 J
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	0.0029 J	ND	0.0015 J	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.034	0.036	0.040	0.044	0.057	0.040	0.049	0.047	0.050	0.049	0.043	0.050	0.005	0.049	0.049	0.0443	0.0479	0.055	0.0442	0.07	0.005	0.0459	0.0362	0.0352	0.0366
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	0.0013	0.0014	0.0016	0.0018	0.001	0.0007	0.001	.0002 J	0.0017	0.0018	0.0023
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	.0004 J	.0005 J	0.0006 J	0.0018 J
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.019	0.024	0.022	0.022	0.023	0.019	0.0267	0.022	0.023	0.0208	0.0186	0.0214	0.001	0.0204	0.0246	0.0201	0.0198	0.0208	0.02	0.003	0.001	0.0234	0.0186	0.0237	0.0214
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.019	0.021	0.032	0.022	0.010	0.043	0.027	0.022	0.025	0.019	0.020	0.024	0.001	0.019	0.021	ND	ND	0.0158	0.0186	2	0.001	0.0213	0.0150	ND	0.0126
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	0.0072	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0030	0.0027	0.0027	0.001	0.0037	0.0066	0.006	ND	0.0072	0.007	0.00003	0.001	0.008	0.0061	0.0084	0.0054
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	J	J	0.0036 J	0.010	0.0015 J	ND	ND	0.0057 J	0.0033 J	0.0043 J	0.01	0.010	ND	ND	0.0011 J	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	J	0.0004 J	0.010	0.0004 J	ND	0.0003 J	0.0013 J	0.0003 J	0.0028 J	0.015	0.010	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	0.0025 J	ND	0.0022 J	0.1	0.050	ND	ND	ND	ND

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-14

Monitoring Well: MW-14

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	.0004 J	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	0.0006 J	ND	ND		0.001	.0016 J	.0011 J	0.0008 J	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.154	0.219*	ND		0.079	0.186	0.336	0.307	0.220	0.378	0.339	0.244	0.001	0.563	0.267	0.169	0.232	0.18	0.514	0.006	0.005	0.356	0.254	0.419	0.242
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	0.139		ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	J	ND	ND	ND	ND	0.007	0.005	.0006 J	ND	0.0017 J	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	0.0007 J	ND	0.0006 J	0.02	0.005	.0007 J	.0009 J	0.0007 J	0.0007 J
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.0077	ND	ND	0.003	0.0004	0.001	0.007	0.0068	0.0071	0.0051
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND		ND	ND	ND	ND	ND	0.0022	0.0021	0.0028	0.001	ND	0.003	0.0044	0.0037	0.0044	0.0032	0.0006	0.001	0.0038	0.0040	0.0046	0.0039
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	0.008	ND	0.008		0.005	0.017	0.0188	0.015	0.012	0.019	0.02	0.0145	0.001	0.0179	0.0153	0.0101	0.0149	0.0085	0.0213	0.006	0.001	0.0217	0.0290	0.0221	0.0248
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	0.62	1.05*	ND		0.064	1.66	1.27	0.866	ND	0.47	ND	0.448	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	0.0069 J	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	0.096	ND		ND	0.084	0.0771	ND	0.056	ND	ND	0.0533	0.100	J	J	0.03 J	0.0235 J	0.0297 J	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	1.11	2.00*	0.195		0.165	2.85	2.27	0.712	ND	0.807	0.524	0.448	0.100	J	0.182	0.119	0.127	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.013	0.017	0.015		0.008	0.010	0.011	0.008	0.012	0.013	0.013	0.015	0.001	0.016	0.014	0.012	0.0112	0.0101	0.0152	0.001	0.001	0.0102	0.0104	0.0160	0.0155
20	Bromochloromethane	mg/L		0.005	ND	ND	0.24		ND	ND	0.0187	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND		0.036	0.022	0.0304	ND	ND	ND	ND	ND	0.100	ND	J	0.0068 J	ND	0.0043 J	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.003	J	0.0042	0.0037	0.0055	0.0032	0.0067	0.05	0.003	0.0057	0.0077	0.0074	0.0088
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND		ND	ND	0.019	0.014	ND	ND	ND	ND	0.010	ND	0.0389	ND	0.0029 J	ND	0.0086 J	3.00	0.010	0.0223	0.0145	0.0129	0.0145
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.458	0.587*	0.323		0.362	0.374	0.794	0.613	0.794	1.02	1.11	1.36	0.005	1.27	0.342	ND	0.228	0.29	0.659	0.07	0.005	0.322	0.282	0.417	0.250
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	0.022	0.043	0.025		0.007	0.031	0.0348	0.051	0.027	0.047	0.0498	0.0414	0.001	0.045	0.0417	0.0202	0.0475	0.0116	0.0706	0.600	0.001	0.039	0.0557	0.0641	0.0167
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	3.02	4.76	2.07		1.22	3.57	3.87	2.41	0.465	0.283	0.127	0.582	0.001	0.082	ND	0.484	0.0244	0.138	0.0142	0.005	0.001	0.0744	0.0060	0.0010	0.0023
37	Styrene	mg/L	0.1	0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.007	0.008	0.00827		0.002	0.008	0.013	0.010	0.005	0.0055	0.0016	0.0019	0.001	ND	0.0021	0.0032	0.0056	0.0025	0.0012	0.0007	0.001	0.0015	0.0040	0.0019	0.0040
39	Toluene	mg/L	1.0	0.005	0.069	0.168*	0.117		ND	0.051	0.0931	0.105	0.061	0.091	0.104	0.108	0.001	0.0844	0.0615	0.0803	0.178	0.0187	0.0463	0.6	0.001	0.0223	0.0222	0.0062	0.0043
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	J	0.0019 J	0.0012 J	0.0022 J	0.0019 J	0.10	0.005	.0025 J	.0032 J	0.0025 J	0.0059
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.122	0.134*	0.205		0.184	0.144	0.248	0.139	0.348	0.1100	0.0301	0.1120	0.001	0.0541	0.0899	0.0924	0.0208	0.0578	0.0372	0.003	0.001	0.0682	0.0653	0.0281	0.0341
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0031
45	Vinyl acetate	mg/L		0.025	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	0.007	ND	0.016		0.011	0.020	0.025	0.017	0.014	ND	0.032	0.025	0.001	0.027	0.069	0.04	0.0604	0.0877	0.0622	0.00003	0.001	0.0305	0.0350	0.0561	0.0386
47	Xylenes	mg/L	0.53	0.005	0.087	0.097	0.85		0.049	0.102	0.176	0.224	0.131	0.195	0.199	0.167	0.003	0.178	0.162	0.104	0.196	0.0767	0.128	0.5	0.005	0.224	0.300	0.227	0.210
48	Chromium	mg/L	0.05	0.010	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	ND	0.0024 J	ND	ND	ND	0.01	0.010	ND	ND	0.0018 J	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	J	0.0004 J	0.0008 J	ND	0.0013 J	0.015	0.010	0.0008 J	.0011 J	0.0015 J	0.0004 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	0.050	J	ND	0.005 J	0.0106 J	ND	ND	0.1	0.050	0.0026 J	.0022 J	0.0027 J	0.0022 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-14A

Monitoring Well: MW-14A

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	J	J	0.0022 J	0.0022 J	0.0026 J	.0025 J	0.006	0.005	.0029 J	.0023 J	0.0024 J	ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	.0009 J	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.0006 J	ND	ND	0.0007 J	0.0004	0.001	ND	0.0012	0.0014	0.0012
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	0.0050
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	0.0117 J	ND	0.0024 J	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	0.0003 J	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	J	J	0.0016 J	0.0017 J	0.0021 J	0.0002 J	0.07	0.005	.0022 J	.0017 J	0.0022 J	0.0031 J
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.012	0.008	0.010	0.009	0.011	0.009	0.011	0.014	0.016	0.0197	0.0151	0.0145	0.001	0.0203	0.0208	0.0165	0.0204	0.0216	0.0147	0.0007	0.001	0.0227	0.0166	0.0161	0.0203
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	0.0016	0.002	0.003	0.0027	0.0032	0.003	0.001	0.0038	0.0046	0.004	0.004	0.0049	0.0049	0.003	0.001	0.0061	0.0043	0.0052	0.0066
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.0017	0.002	0.0018	0.0021	0.0022	0.0021	2	0.001	0.0018	0.0014	0.0019	0.0017
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	0.0024 J
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	J	0.0058 J	0.0051 J	0.0045 J	0.0045 J	0.01	0.010	0.0042 J	.0046 J	0.0053 J	0.0042 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	0.0004 J	0.0005 J	ND	ND	0.015	0.010	ND	ND	0.0003 J	0.0002 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.1	0.050	ND	ND	ND	0.0024 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-15

Monitoring Well: MW-15

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	0.007	ND	ND	ND	0.007	0.008	0.0062	ND	ND	ND	ND	ND	0.001	ND	0.0015	ND	ND	ND	0.0008 J	0.2	0.001	ND	.0008 J	0.0006 J	0.0006 J
3	1,1,2,2-Tetrachloroethane	mg/L		0.005			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.197	0.225	0.235	0.447	0.126	0.125	0.189	0.299	0.526	0.431	0.368	0.560	0.001	0.469	0.438	0.661	0.559	0.528	0.488	0.006	0.005	0.367	0.337	0.332	0.434
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	J	0.0038 J	0.0038 J	0.0039 J	0.003 J	0.007	0.005	.0024 J	.0026 J	0.0030 J	0.0024 J
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	J	0.0008 J	0.0008 J	0.001 J	0.0008 J	0.02	0.005	ND	.0008 J	0.0007 J	0.0007 J
11	1,2-Dichloroethane	mg/L	0.00038	0.001			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	.0006 J	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	0.0010	0.0014	0.001	ND	0.0013	0.002	0.002	0.002	ND	0.0006	0.001	0.0011	0.0012	0.0015	0.0013
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	0.005	ND	ND	ND	ND	0.006	ND	ND	ND	0.001	ND	0.005	0.005	0.006	0.006	0.006	0.006	0.001	0.0047	0.0052	0.0045	0.0057
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.010	0.016	0.019	ND	0.003	0.003	0.006	0.013	0.023	0.016	0.014	0.021	0.001	0.019	0.019	0.019	0.020	0.019	0.018	0.001	0.001	0.0156	0.0151	0.0187	0.0152
20	Bromochloromethane	mg/L		0.005	ND	ND	0.080	ND	ND	ND	0.006	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	0.0039	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	ND	ND	0.003	ND	0.005	0.005	0.006	0.006	0.005	0.05	0.003	0.0055	0.0047	0.0044	0.0048
27	Chloroethane	mg/L	2.80	0.005	0.007	ND	ND	ND	ND	ND	0.008	ND	0.006	ND	ND	ND	0.010	ND	J	ND	0.0024 J	0.0021 J	0.0022 J	3.00	0.010	.0017 J	.0023 J	0.0022 J	0.0019 J
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	0.0004 J	0.0005 J	0.0003 J	0.07	0.005	.0003 J	.0004 J	0.0003 J	0.0003 J
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.228	0.361	0.325	0.493	0.094	0.055	0.139	0.302	0.617	0.452	0.401	0.588	0.005	0.572	0.534	0.704	ND	0.553	0.548	0.07	0.005	0.378	0.373	0.384	0.464
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	0.545	0.009	0.537	ND	0.199	0.233	0.671	0.960	1.090	0.757	0.419	0.500	0.001	0.335	ND	0.209	0.193	0.174	0.127	0.005	0.001	0.116	0.112	0.106	0.0824
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.007	ND	0.006	ND	0.003	0.006	0.007	0.004	0.007	0.0075	0.0045	0.0041	0.001	ND	0.0053	0.006	0.007	0.007	0.004	0.0007	0.001	0.0035	0.0060	0.0053	0.0068
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.0003 J	0.0002 J	0.0003 J	0.0002 J	0.6	0.001	.0002 J	ND	ND	0.0002 J
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	0.0056	0.0022 J	0.0021 J	0.0038 J	0.0025 J	0.10	0.005	.0026 J	0.0067	0.0036 J	0.0106
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.054	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.088	0.084	0.150	0.127	0.034	0.029	0.063	0.108	0.202	0.135	0.113	0.177	0.001	0.146	0.186	0.162	0.168	0.174	0.145	0.003	0.001	0.13	0.126	0.134	0.110
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.039	ND	0.030	0.018	0.018	0.075	0.058	0.024	0.051	0.063	0.053	0.044	0.001	0.043	ND	ND	ND	0.00226 J	0.032	2	0.001	0.025	0.0233	0.0229	0.0165
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	0.016	0.010	0.012	0.006	0.022	0.023	0.022	0.006	0.007	0.0117	0.0103	0.0104	0.001	ND	0.0091	0.009	0.010	0.008	0.011	0.00003	0.001	0.0127	0.0109	0.0151	0.0102
47	Xylenes	mg/L	0.53	0.005	0.027	0.019	0.062	0.063	0.010	0.007	0.017	0.036	0.070	0.047	0.049	0.053	0.003	ND	0.058	0.063	0.066	0.071	0.029	0.5	0.005	0.0566	0.0479	0.0453	0.0472
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	0.004 J	0.0016 J	ND	ND	0.01	0.010	ND	ND	0.0015 J	0.0012 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	J	0.0029 J	0.002 J	0.0005 J	0.0009 J	0.015	0.010	0.0007 J	.0004 J	0.0007 J	0.0008 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	J	ND	0.0039 J	0.0026 J	0.0031 J	ND	0.1	0.050	0.0064 J	.0053 J	0.0046 J	0.0047 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-16

Monitoring Well: MW-16

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.053	0.047	0.045	0.061	0.087	0.085	0.109	0.089	0.126	0.148	0.144	0.131	0.001	0.144	0.0918	0.0994	0.112	0.103	0.0817	0.006	0.005	0.0948	0.0746	0.118	0.114
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	ND	0.005	J	J	0.0025 J	0.0023 J	0.0023 J	0.0016 J	0.007	0.005	.002 J	.0018 J	0.0021 J	0.0018 J
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	.0005 J	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.001	J	J	0.0007 J	0.0007 J	0.0007 J	0.0006 J	0.0006	0.001	.0006 J	.0007 J	0.0007 J	0.0008 J
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	J	ND	0.0004 J	0.0005 J	0.0004 J	0.0004 J	0.006	0.001	.0006 J	.0005 J	0.0005 J	0.0017
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	0.004	0.003	0.0038	0.004	0.005	0.005	0.004	0.0036	0.001	0.0032	0.0025	0.0022	0.0018	0.0016	0.0014	0.001	0.001	0.0016	0.0018	0.0020	0.0024
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	0.011	ND	0.011	ND	ND	ND	0.0142	0.013	0.014	ND	0.0136	0.0133	0.010	0.0112	0.0116	0.0101	0.0098 J	0.0071 J	0.0074 J	3.00	0.010	0.0039 J	.0070 J	0.0070 J	0.0101
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.024	0.028	0.027	0.025	0.041	0.024	0.0322	0.026	0.027	0.025	0.0173	0.0158	0.005	0.0183	0.0144	0.0128	0.0151	0.0158	0.014	0.07	0.005	0.0183	ND	0.0192	0.0178
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	0.002	0.003	0.002	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	0.003	0.0027	0.002	0.003	0.0025	0.0014	ND	0.001	0.0022	0.0013	0.0016	0.0018	0.0019	0.0008 J	0.0007	0.001	.0004 J	0.0011	0.0017	0.0013
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	.0005 J	ND	0.0007 J
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.044	0.029	0.035	0.024	0.031	0.024	0.040	0.035	0.055	0.0425	0.0416	0.0400	0.001	0.0504	0.0321	0.0356	0.036	0.0371	0.0223	0.003	0.001	0.0279	0.0188	0.0246	0.0202
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.007	0.005	0.007	0.006	ND	ND	ND	ND	0.011	ND	ND	ND	0.001	ND	ND	ND	ND	ND	0.0099	2	0.001	0.0125	0.0109	0.0112	0.0105
45	Vinyl acetate	mg/L		0.025	ND	ND	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	0.007	ND	0.007	ND	0.008	0.008	0.0113	0.011	0.011	ND	0.0126	0.0108	0.001	0.0073	0.0095	0.0073	0.0097	0.0069	0.0093	0.00003	0.001	0.0095	0.0111	0.0096	0.0107
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	0.0007 J
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	0.0459	0.024	0.015	0.016	0.0102	ND	0.010	J	J	0.0087 J	0.0205	0.0015 J	0.0116	0.01	0.010	0.0049 J	.0037 J	0.0162	0.0049 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	J	0.0005 J	0.0011 J	ND	0.0007 J	0.015	0.010	0.0004 J	.0003 J	0.0005 J	0.0007 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	J	J	0.0136 J	0.0195 J	0.0093 J	0.0152 J	0.1	0.050	0.0118 J	.0117 J	0.0164 J	0.0131 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-16A

Monitoring Well: MW-16A

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.006	0.006	0.006	0.009	0.010	0.015	0.017	0.018	0.020	0.024	0.024	0.032	0.001	0.025	0.025	0.030	0.0357	0.0364	0.0332	0.006	0.005	.0345 J	0.0312	0.0378	0.0356
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	J	J	0.0039 J	0.0039 J	0.004 J	0.0034 J	0.007	0.005	.0033 J	.0030 J	0.0028 J	0.0029 J
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	0.0003 J	0.0005 J
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.0002 J	0.0002 J	0.0002 J	0.0002 J	0.001	0.001	.0002 J	.0003 J	0.0003 J	0.0003 J
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	.0020 J	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	J	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.027	ND	0.025	0.025	0.028	0.026	0.0359	0.031	0.046	0.057 E	0.0495	0.0406	0.005	0.0519	0.0436	0.043	0.0469	0.0488	0.0413	0.07	0.005	.0388 J	0.0378	0.0451	0.0383
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	J	0.001	0.0012	0.0014	0.0008 J	0.0007	0.001	ND	0.0013	0.0016	0.0017
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	J	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.029	ND	ND	0.024	0.030	0.020	0.030	0.021	0.029	0.0270 E	0.024	0.025	0.001	0.023	0.022	0.021	0.021	0.0207	0.0206	0.003	0.001	0.0211	0.0189	0.0194	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.023	ND	ND	0.025	0.025	0.048	0.0328	0.025	0.032	0.035 E	0.029	0.0263	0.001	0.024	0.022	0.018	ND	0.0197	0.0224	2	0.001	0.0238	0.0181	0.0149	0.0152
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	0.0042	0.0055	0.0076	0.0051	0.0047	0.00003	0.001	0.0049	0.0047	0.0047	0.0047
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	0.002 J	ND	ND	ND	0.01	0.010	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	0.0003 J	ND	ND	0.015	0.010	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	0.0032 J	ND	0.1	0.050	ND	ND	0.0022 J	ND

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-18

Monitoring Well: MW-18

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011	
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND				0.005	ND			ND	
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.2	0.001	ND			ND	
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND				0.003	ND			ND	
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND				0.001	ND			ND	
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.006	0.005	ND			ND	
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.007	0.005	ND			ND	
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0000050	0.001	ND			ND	
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00004	0.013	ND			ND	
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00002	0.001	ND			ND	
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.02	0.005	ND			ND	
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND	
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0006	0.001	ND			ND	
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.006	0.001	ND			ND	
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			4.00	0.100	ND			ND	
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			ND				0.050	ND			ND	
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND				0.100	ND			ND	
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			6	0.100	ND			ND	
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.200	ND			ND				0.200	ND			ND	
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.001	0.001	ND			ND	
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND				0.003	ND			ND	
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0006	0.001	ND			ND	
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.004	0.003	ND			ND	
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND				0.010	ND			ND	
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			0.7	0.100	ND			ND	
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0003	0.001	ND			ND	
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.05	0.003	ND			ND	
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND			3.00	0.010	ND			ND	
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.07	0.005	ND			ND	
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.003	0.001	ND			ND	
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.07	0.005	ND			ND	
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND	
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.003	ND			ND	
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND				0.001	ND			ND	
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.600	0.001	ND			ND	
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND				0.010	ND			ND	
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.005	0.001	ND			ND	
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.07	0.001	ND			ND	
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0007	0.001	ND			ND	
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.6	0.001	ND			ND	
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.10	0.005	ND			ND	
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND	
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND				0.100	ND			ND	
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.003	0.001	ND			ND	
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			2	0.001	ND			ND	
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			ND				0.050	ND			ND	
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00003	0.001	ND			ND	
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.5	0.005	ND			ND	
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND			ND			0.010	J			0.0028 J			0.01	0.010	0.0020 J			0.0020	J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			0.0002 J			0.015	0.010	ND			ND	
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			ND			0.1	0.050	ND			ND	

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-20

Monitoring Well: MW-20

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	0.006	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.002	0.002	ND	ND	0.0022	0.0021	0.2	0.001	0.0023	0.0016	0.0015	0.0031
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.424	0.299*	0.469	0.009	0.568	0.547	0.890	0.010	0.802	0.460	0.793	0.890	0.001	0.708	0.651	0.910	0.814	0.709	0.725	0.006	0.005	0.591	0.461	0.957	0.587
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.017	0.011	0.020	ND	0.008	0.006	0.008	ND	0.013	0.009	0.010	0.013	0.005	0.011	0.008	0.015	0.0148	0.0159	0.009	0.007	0.005	0.0095	ND	0.0096	0.0064
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0053	0.004	0.0039	0.001	0.0032	0.0096	0.0054	0.0059	0.005	0.0089	0.0006	0.001	0.0081	0.0095	0.0079	0.0085
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.0014	0.0033	0.0026	0.0028	0.0025	0.004	0.006	0.001	0.0032	0.0037	0.0036	0.0039
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.012	0.010	ND	ND	0.019	0.021	0.0192	0.016	0.011	0.022	0.0164	0.0151	0.001	0.0131	0.0234	0.0188	0.0188	0.016	0.0226	0.001	0.001	0.0209	0.0214	0.0209	0.0184
20	Bromochloromethane	mg/L		0.005	0.008	ND	ND	ND	ND	ND	0.0177	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	.0014 J	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	0.0024 J	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	0.0004 J	0.0003 J	ND	0.0003	0.001	ND	.0002 J	0.0003 J	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	J	J	0.0011 J	0.0012 J	0.0011 J	0.0016 J	0.05	0.003	.0013 J	.0018 J	0.0014 J	0.0016 J
27	Chloroethane	mg/L	2.80	0.005	0.008	ND	ND	ND	ND	ND	0.0072	ND	ND	ND	ND	ND	0.010	J	J	0.0013 J	ND	0.001 J	ND	3.00	0.010	.0011 J	.0012 J	0.0010 J	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	0.0004 J	0.0004 J	0.07	0.005	.0005 J	.0004 J	0.0004 J	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.099	0.094*	0.166	0.240	0.223	0.174	0.444	0.266	0.634	0.375	0.636	0.869	0.005	0.617	0.874	1.110	ND	0.935	1.33	0.07	0.005	0.938	1.08	1.98	1.40
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	1.93	0.904*	0.611	1.10	6.48	3.59	3.05	0.204	ND	0.201	0.334	0.071	0.001	0.074	0.075	0.064	0.142	0.0408	0.0249	0.005	0.001	0.0444	0.0638	0.0867	0.0530
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.026	0.026*	0.043	0.037	0.036	0.043	0.0621	0.037	0.040	0.0222	0.0284	0.0450	0.001	0.0471	0.0422	0.0544	0.0765	0.0622	0.0177	0.0007	0.001	0.056	0.0448	0.0718	0.0661
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	0.0002 J	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	0.005	ND	0.012	0.0024 J	0.0019 J	0.0043 J	0.0033 J	0.10	0.005	.0039 J	0.0110	0.0046 J	0.0059
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.116	0.095*	0.221	0.189	0.190	0.175	0.466	0.134	0.585	0.198	0.520	0.493	0.001	0.587	0.655	0.912	0.795	0.84	1.04	0.003	0.001	0.914	0.775	1.48	0.900
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.013	0.030*	0.013	ND	0.007	0.022	0.0212	0.017	ND	0.024	ND	ND	0.001	ND	0.0161	ND	ND	ND	0.0151	2	0.001	0.0164	0.0188	0.0214	0.0174
45	Vinyl acetate	mg/L		0.025	ND	0.638	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	0.010	ND	ND	0.007	0.015	0.007	0.0146	ND	ND	0.004	0.0053	0.0059	0.001	ND	0.0074	0.0058	0.006	0.0052	0.0059	0.00003	0.001	0.0065	0.0057	0.0057	ND
47	Xylenes	mg/L	0.53	0.005	0.009	ND	0.006	0.012	0.016	0.016	0.013	0.008	ND	0.011	0.0066	ND	0.003	J	ND	0.004	0.0031	0.0037	0.0078	0.5	0.005	0.0125	0.0182	0.0142	0.0172
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	0.0199	0.0024 J	0.0011 J	ND	ND	0.01	0.010	ND	.0012 J	0.0014 J	0.0010 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	0.0002 J	0.0002 J	ND	ND	0.015	0.010	ND	.0003 J	0.0003 J	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	J	J	0.0029 J	0.0033 J	ND	ND	0.1	0.050	ND	ND	0.0033 J	0.0030 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-21

Monitoring Well: MW-21

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.005	ND	ND	ND	ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	0.0018 J	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.0004 J	ND	0.003	0.001	ND	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.0003 J	ND	0.0004 J	0.0004 J	2	0.001	.0005 J	.0005 J	ND	0.0005 J
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	J	0.0038 J	0.0046 J	0.0041 J	0.0031 J	0.01	0.010	0.0019 J	.0058 J	0.0038 J	0.0057 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	J	0.0008 J	0.0012 J	0.0004 J	ND	0.015	0.010	0.0003 J	.0007 J	0.0003 J	0.0005 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	0.0031 J	0.0035 J	ND	ND	0.1	0.050	ND	ND	ND	0.0027 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-23

Monitoring Well: MW-23

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	1 Sep-2004	2 Mar-2005	3 Sep-2005	4 Mar-2006	5 Sep-2006	SWSL	6 Mar-2007	7 Sep-2007	8 Mar-2008	9 Sep-2008	10 Mar-2009	11 Sep-2009	GW Std.	SWSL	12 Mar-2010	13 Sep-2010	14 Mar-2011	15 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.005	ND	ND	ND	ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	0.010	ND	ND	0.004 J	ND	ND	ND	0.01	0.010	ND	ND	0.0015 J	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	0.010	J	J	0.0083 J	0.0044 J	0.0020 J	0.0031 J	0.015	0.010	0.0009 J	.0030 J	0.0017 J	0.0005 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.1	0.050	ND	ND	ND	0.0026 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-24

Monitoring Well: MW-24

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	1 Sep-2004	2 Mar-2005	3 Sep-2005	4 Mar-2006	5 Sep-2006	SWSL	6 Mar-2007	7 Sep-2007	8 Mar-2008	9 Sep-2008	10 Mar-2009	11 Sep-2009	GW Std.	SWSL	12 Mar-2010	13 Sep-2010	14 Mar-2011	15 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.005	ND	ND	ND	ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	0.011	ND	ND	0.010	J	J	0.0049 J	0.0060 J	0.0021 J	0.0040 J	0.01	0.010	0.0019 J	.0012 J	0.0038 J	0.0020 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	0.010	J	J	0.0022 J	0.0028 J	0.0008 J	0.0013 J	0.015	0.010	0.0012 J	.0005 J	0.0030 J	0.0006 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	0.050	J	ND	0.0022 J	0.0021 J	ND	0.0026 J	0.1	0.050	0.0049 J	.0036 J	0.0050 J	0.0032 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

MW-24D

Monitoring Well: MW-24D

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	1 Sep-2004	2 Mar-2005	3 Sep-2005	4 Mar-2006	5 Sep-2006	SWSL	6 Mar-2007	7 Sep-2007	8 Mar-2008	9 Sep-2008	10 Mar-2009	11 Sep-2009	GW Std.	SWSL	12 Mar-2010	13 Sep-2010	14 Mar-2011	15 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.005	ND	ND	ND	ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	0.100	ND	ND	0.0016 J	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	3.00	0.010	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	0.023	0.016	ND	ND	ND	0.010	J	J	0.004 J	0.0031 J	0.0023 J	0.0028 J	0.01	0.010	0.0025 J	.0018 J	0.0038 J	0.0018 J
49	Lead	mg/L	0.015	0.010	0.029	0.026	ND	ND	ND	0.010	ND	J	0.0019 J	0.0014 J	0.0003 J	0.0018 J	0.015	0.010	0.0009 J	ND	0.0007 J	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	0.050	J	J	0.0027 J	0.0041 J	0.0029 J	ND	0.1	0.050	ND	ND	0.0022 J	0.0024 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

OW-1

Monitoring Well: OW-1

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.038	0.052	0.053	0.060	0.083	0.029	0.035	0.024	0.017	0.007	0.0052	0.0071	0.001	0.0096	0.0178	0.0167	0.0236	0.0246	0.0631	0.006	0.005	0.0765	0.0611	0.058	0.0531
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	0.0003 J	ND	0.0004 J	0.007	0.005	ND	.0004 J	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	.0005 J	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	J	0.0004 J	0.0004 J	0.0004 J	0.0006 J	0.006	0.001	0.0015	0.0016	0.0012	0.0010
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.052	0.09	0.095	0.115	0.133	0.019	0.0366	0.023	0.022	0.006	0.0019	0.003	0.001	0.0032	0.0065	0.0121	0.011	0.0076	0.0074	0.001	0.001	0.006	0.0069	0.0064	0.0053
20	Bromochloromethane	mg/L		0.005	ND	ND	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	0.0002 J	0.0003 J	0.0003 J	0.0012 J	0.05	0.003	.0023 J	.0028 J	0.0022 J	0.0023 J
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	0.013	ND	0.012	0.011	0.02298	3.00	0.010	0.0193	0.0175	0.0128	0.0091 J
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	0.0003 J	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	J	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.07	0.066	0.118	0.115	0.174	0.023	0.0422	0.028	0.025	0.008	ND	0.0052	0.005	J	0.0115	0.0117	0.0147	0.0144	0.0428	0.07	0.005	0.053	0.0514	0.0477	0.0435 J
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.0017	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	0.0036	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	0.248	0.461	0.223	0.189	0.336	0.129	0.186	0.076	ND	0.015	0.0059	0.0112	0.001	0.0067	0.0164	0.0328	0.0209	0.0114	0.0022	0.005	0.001	0.002	0.0022	0.0023	0.0016
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	0.002	0.002	0.0019	0.001	0.001	ND	ND	ND	0.001	J	0.0017	0.0012	0.0023	0.0024	0.0035	0.0007	0.001	0.003	0.0061	0.0049	0.0045
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	.0007 J	.0009 J	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	0.0005 J		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.01	0.013	0.021	0.021	0.022	0.006	0.0072	0.005	0.004	0.0012	ND	0.0011	0.001	0.002	0.0047	0.0022	0.0051	0.0056	0.0156	0.003	0.001	0.0178	0.0153	0.0114	0.0093
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	J	ND	ND	ND	0.0017	2	0.001	0.002	0.0017	0.0009 J	0.0008 J
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	0.009	0.007	0.013	ND	ND	ND	ND	0.0018	0.0019	0.0024	0.001	0.0084	0.0155	0.0039	0.0166	0.0113	0.0187	0.00003	0.001	0.0166	0.0178	0.0131	0.0109
47	Xylenes	mg/L	0.53	0.005	0.059	0.051*	0.097	0.127	0.139	0.042	0.0518	0.037	0.027	0.008	ND	ND	0.003	J	ND	0.0148	0.0126	0.0097	0.00385	0.5	0.005	0.0375	0.0110	0.0104	0.0100
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	0.0068	0.0017 J	ND	ND	ND	0.01	0.010	ND	ND	0.0011 J	ND
49	Lead	mg/L	0.015	0.010	0.016	0.032	0.025	ND	ND	0.021	0.0131	0.013	ND	ND	ND	ND	0.010	J	J	0.0047 J	0.0014 J	0.0027 J	ND	0.015	0.010	0.002 J	.0014 J	0.0014 J	0.0008 J
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.1	0.050	0.0025 J	.0024 J	ND	0.0022 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

OW-3

Monitoring Well: OW-3

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2010	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.005	ND	NS	NS	NS	NS	NS		0.005	ND	ND	ND	NS
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.2	0.001	ND	ND	ND	NS
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS		0.003	ND	ND	ND	NS
4	1,1,2-Trichloroethane	mg/L		0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.005	ND	NS	NS	NS	NS	NS		0.001	ND	ND	ND	NS
5	1,1-Dichloroethane	mg/L	0.07	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	J	NS	NS	NS	NS	NS	0.006	0.005	ND	ND	ND	NS
6	1,1-Dichloroethene	mg/L	0.007	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.005	ND	NS	NS	NS	NS	NS	0.007	0.005	ND	ND	ND	NS
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.0000050	0.001	ND	ND	ND	NS
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.00004	0.013	ND	ND	ND	NS
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.00002	0.001	ND	ND	ND	NS
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.005	ND	NS	NS	NS	NS	NS	0.02	0.005	ND	ND	ND	NS
11	1,2-Dichloroethane	mg/L	0.00038	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.0004	0.001	ND	ND	ND	NS
12	1,2-Dichloropropane	mg/L	0.00051	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.0006	0.001	ND	ND	ND	NS
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.006	0.001	ND	ND	ND	NS
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.100	ND	NS	NS	NS	NS	NS	4.00	0.100	ND	ND	ND	NS
15	2-Hexanone	mg/L		0.050	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.050	ND	NS	NS	NS	NS	NS		0.050	ND	ND	ND	NS
16	4-Methyl-2-pentanone	mg/L		0.050	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.100	ND	NS	NS	NS	NS	NS		0.100	ND	ND	ND	NS
17	Acetone	mg/L	0.7	0.050	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.100	ND	NS	NS	NS	NS	NS	6	0.100	.0072 J	ND	ND	NS
18	Acrylonitrile	mg/L		0.025	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.200	ND	NS	NS	NS	NS	NS		0.200	ND	ND	ND	NS
19	Benzene	mg/L	0.001	0.001	NS	NS	NS	NS	NS	ND	ND	0.023	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.001	0.001	ND	ND	ND	NS
20	Bromochloromethane	mg/L		0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.003	ND	NS	NS	NS	NS	NS		0.003	ND	ND	ND	NS
21	Bromodichloromethane	mg/L	0.00056	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.0006	0.001	ND	ND	ND	NS
22	Bromoform	mg/L	0.00443	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.003	ND	NS	NS	NS	NS	NS	0.004	0.003	ND	ND	ND	NS
23	Bromomethane (Methyl bromide)	mg/L		0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.010	ND	NS	NS	NS	NS	NS		0.010	ND	ND	ND	NS
24	Carbon disulfide	mg/L	0.7	0.025	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.100	ND	NS	NS	NS	NS	NS	0.7	0.100	ND	ND	ND	NS
25	Carbon tetrachloride	mg/L	0.000269	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.0003	0.001	ND	ND	ND	NS
26	Chlorobenzene	mg/L	0.05	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.003	ND	NS	NS	NS	NS	NS	0.05	0.003	ND	ND	ND	NS
27	Chloroethane	mg/L	2.80	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.010	ND	NS	NS	NS	NS	NS	3.00	0.010	ND	ND	ND	NS
28	Chloroform	mg/L	0.07	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.005	ND	NS	NS	NS	NS	NS	0.07	0.005	ND	ND	ND	NS
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.003	0.001	ND	ND	ND	NS
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.005	J	NS	NS	NS	NS	NS	0.07	0.005	ND	ND	ND	NS
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.0004	0.001	ND	ND	ND	NS
32	Dibromochloromethane	mg/L		0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.0004	0.003	ND	ND	ND	NS
33	Dibromomethane (Methylene bromide)	mg/L		0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS		0.001	ND	ND	ND	NS
34	Ethylbenzene	mg/L	0.550	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.600	0.001	ND	ND	ND	NS
35	Iodomethane (Methyl iodide)	mg/L		0.025	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.010	ND	NS	NS	NS	NS	NS		0.010	ND	ND	ND	NS
36	Methylene chloride	mg/L	0.0046	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.005	0.001	ND	ND	ND	NS
37	Styrene	mg/L	0.1	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.07	0.001	ND	ND	ND	NS
38	Tetrachloroethene	mg/L	0.0007	0.001	NS	NS	NS	NS	NS	0.003	0.0029	0.002	0.002	0.0021	0.0018	NS	0.001	0.002	NS	NS	NS	NS	NS	0.0007	0.001	0.0023	0.0023	ND	NS
39	Toluene	mg/L	1.0	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.6	0.001	ND	ND	ND	NS
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.005	ND	NS	NS	NS	NS	NS	0.10	0.005	ND	ND	ND	NS
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.0004	0.001	ND	ND	ND	NS
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.100	ND	NS	NS	NS	NS	NS		0.100	ND	ND	ND	NS
43	Trichloroethene	mg/L	0.0028	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	0.0017	NS	NS	NS	NS	NS	0.003	0.001	ND	ND	ND	NS
44	Trichlorofluoromethane	mg/L	2.1	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	2	0.001	ND	ND	ND	NS
45	Vinyl acetate	mg/L		0.025	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.050	ND	NS	NS	NS	NS	NS		0.050	ND	ND	ND	NS
46	Vinyl chloride	mg/L	0.000015	0.001	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.001	ND	NS	NS	NS	NS	NS	0.00003	0.001	ND	ND	ND	NS
47	Xylenes	mg/L	0.53	0.005	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.003	J	NS	NS	NS	NS	NS	0.5	0.005	ND	ND	ND	NS
48	Chromium	mg/L	0.05	0.010	NS	NS	NS	NS	NS	ND	ND	0.013	ND	ND	ND	NS	0.010	J	NS	NS	NS	NS	NS	0.01	0.010	ND	.0014 J	IS	NS
49	Lead	mg/L	0.015	0.010	NS	NS	NS	NS	NS	ND	ND	0.027	ND	ND	ND	NS	0.010	J	NS	NS	NS	NS	NS	0.015	0.010	.0005 J	.0052 J	IS	NS
50	Nickel	mg/L	0.1	0.050	NS	NS	NS	NS	NS	ND	ND	ND	ND	ND	ND	NS	0.050	ND	NS	NS	NS	NS	NS	0.1	0.050	.0030 J	.0027 J	IS	NS

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

CR-1

Monitoring Well: CR-1

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	1 Mar-2002	2 Sep-2002	3 Mar-2003	4 Sep-2003	5 Mar-2004	6 Sep-2004	7 Mar-2005	8 Sep-2005	9 Mar-2006	10 Sep-2006	SWSL	11 Mar-2007	12 Sep-2007	13 Mar-2008	14 Sep-2008	15 Mar-2009	16 Sep-2009	GW Std.	SWSL	17 Mar-2010	18 Sep-2010	19 Mar-2011	20 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	0.007	ND	0.011	0.008	0.0092	0.005	ND	ND	0.0078	0.0079	0.001	0.0091	ND	0.012	0.0069	0.0126	0.004 J	0.006	0.005	0.0076	.0022 J	0.0084	0.0035 J
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.0002 J	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	J	ND	0.0026 J	0.0023 J	0.0031 J	0.0016 J	3.00	0.010	0.0028 J	.0014 J	0.0038 J	0.0020 J
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.002	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	J	J	0.0016 J	0.0011 J	0.0018 J	0.0006 J	0.07	0.005	.0009 J	.0004 J	0.0013 J	0.0005 J
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	J	ND	0.0005 J	0.0002 J	0.0006 J	ND	0.6	0.001	.0004 J	ND	0.0005 J	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	0.001	ND	0.0011	ND	ND	ND	ND	ND	0.001	J	ND	0.0009 J	0.0005 J	0.0012	0.0003 J	0.003	0.001	.0007 J	ND	0.0007 J	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.0009 J	0.0004 J	2	0.001	.0004 J	ND	0.0004 J	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.0007 J	0.0002 J	0.00003	0.001	.0005 J	ND	0.0004 J	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	0.0023 J	ND	ND	ND	0.01	0.010	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	0.015	0.010	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND	0.0049 J	ND	ND	ND	0.1	0.050	ND	ND	ND	ND

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Historical Summary of Detections

SW-2

Monitoring Well: SW-2

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	1 Mar-2002	2 Sep-2002	3 Mar-2003	4 Sep-2003	5 Mar-2004	6 Sep-2004	7 Mar-2005	8 Sep-2005	9 Mar-2006	10 Sep-2006	SWSL	11 Mar-2007	12 Sep-2007	13 Mar-2008	14 Sep-2008	15 Mar-2009	16 Sep-2009	GW Std.	SWSL	17 Mar-2010	18 Sep-2010	19 Mar-2011	20 Sep-2011
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.005	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	J	ND	0.0039 J	0.0022 J	0.0048 J	0.0013 J	0.006	0.005	.0034 J	.0006 J	0.0037 J	0.0012 J
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0000050	0.001	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	4.00	0.100	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	0.001	ND	3.00	0.010	.001 J	ND	0.0013 J	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.0014	ND	ND	ND	0.003	0.001	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	J	ND	0.0007 J	0.0004 J	0.0008 J	0	0.07	0.005	.0006 J	ND	0.0007 J	ND
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND		0.001	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.600	0.001	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.0004 J	ND	0.6	0.001	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	0.0002 J	0.10	0.005	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	J	ND	0.0004 J	ND	0.0006 J	ND	0.003	0.001	.0004 J	ND	0.0004 J	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.0004 J	ND	2	0.001	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND		0.050	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	0.0003 J	ND	0.00003	0.001	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	0.0021 J	ND	ND	ND	0.01	0.010	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	0.015	0.010	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	ND	ND	0.0024 J	ND	0.0021 J	ND	0.1	0.050	ND	ND	0.0020 J	ND

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

PQL - Practical Quantitation Limits (PQL) are the lowest concentration of analytes in groundwater that can be reliably determined within specific limits of precision and accuracy by a particular method under routine laboratory conditions. If the PQL for a particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

J - Dectected below the SWSL values is estimated and shall not be used numerically / quantitatively.

ND - Not Detected at PQL (Practical Quantitation Limit) or MDL (Method Detection Limit)

Please note that all blank cells indicate data was not found / reported.

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix D:

Laboratory Analytical Reports and Chain-of-Custody Records

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276
FAX: 540.400.8508

101 17th Street
Ashland, KY 41101
TEL: 606.393.5027

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

Improving the environment, one client at a time...

October 14, 2011

Mr. Rodney Hamby
COUNTY OF CATAWBA
P O BOX 389
NEWTON NC 28658

TEL: (828) 465-8200
FAX (828) 465-8392

RE: NEWTON

Order No.: 1109S44

Dear Mr. Rodney Hamby:

REI Consultants, Inc. received 26 sample(s) on 9/30/2011 for the analyses presented in the following report.

Please note two changes you may see on your report.

- Results for "Dissolved" parameters will be shown under a separate sample ID, rather than as a separate analysis under the same sample ID. The sample ID for "Dissolved" parameters will include "Field Filtered" or "Lab Filtered", as appropriate.
- Metals results will no longer be identified as "Total" or "Total Recoverable". The methods have not been changed, only their appearance on the report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Michelle Ellison

Michelle Ellison

ACCREDITED IN ACCORDANCE WITH nelac

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572

3029-C Peters Creek Road
Roanoke, VA 24019
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Verona, VA 24482
TEL: 540.248.0183

Improving the environment, one client at a time...

Report Narrative

Project Manager:: **Michelle Ellison**

WO#: **1109S44**
Date: **10/14/2011**

CLIENT: COUNTY OF CATAWBA
Project: NEWTON

All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Any deviation from compliance or method modification is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

All sample results are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

The test results in this report meet all NELAP requirements for parameters for which accreditations are required or available. Any exceptions are noted in this report. This report may not be reproduced, except in full, without the written approval of REIC.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after five years unless otherwise arranged by the client via written notification or contract requirement.

If you have any questions please contact the project manager whose name is listed above.

Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, TNDEQ TN02926, NCDWQ 466, PADEP 68-00839, FLDOH (NELAC) E87958, VADCLS (VELAP) 460148
Bioassay (Beaver, WV): WVDEP 060, FLDOH (NELAC) E871055, VADCLS (VELAP) 460149
Roanoke, VA: VADCLS 00270, VADCLS (VELAP) 460150
Verona, VA: VADCLS (VELAP) 460157
Ashland, KY: KYDEP 00094

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-01A
Client Sample ID:	MW-1	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 2:05:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0054	mg/L	J	0.00100	0.0100	10/6/2011 9:54:03 PM
Lead	ND	mg/L		0.00020	0.0100	10/6/2011 9:54:03 PM
Nickel	0.0506	mg/L		0.00200	0.0500	10/6/2011 9:54:03 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	12,300	µg/L		488	10,000	10/6/2011 8:35:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 2:01:00 AM
Benzene	14.6	µg/L		0.13	1.0	10/5/2011 2:01:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 2:01:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 2:01:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 2:01:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 2:01:00 AM
2-Butanone	13,500	µg/L		468	10,000	10/6/2011 8:35:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 2:01:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 2:01:00 AM
Chlorobenzene	0.2	µg/L	J	0.18	3.0	10/5/2011 2:01:00 AM
Chloroethane	168	µg/L		9.42	100	10/6/2011 1:48:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 2:01:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 2:01:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 2:01:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 2:01:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 2:01:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 2:01:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 2:01:00 AM
1,4-Dichlorobenzene	1.8	µg/L		0.29	1.0	10/5/2011 2:01:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 2:01:00 AM
1,1-Dichloroethane	227	µg/L		3.83	50.0	10/6/2011 1:48:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 2:01:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 2:01:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 2:01:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 2:01:00 AM
1,2-Dichloropropane	6.1	µg/L		0.46	1.0	10/5/2011 2:01:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:01:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:01:00 AM
Ethylbenzene	24.6	µg/L		1.78	10	10/6/2011 1:48:00 AM
2-Hexanone	172	µg/L		4.11	50.0	10/5/2011 2:01:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 2:01:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-01A
Client Sample ID:	MW-1	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 2:05:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	20.6	µg/L		0.54	1.0	10/5/2011 2:01:00 AM
4-Methyl-2-pentanone	1,230	µg/L		44.0	1,000	10/6/2011 1:48:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 2:01:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 2:01:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 2:01:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 2:01:00 AM
Toluene	195	µg/L		1.67	10	10/6/2011 1:48:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 2:01:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 2:01:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 2:01:00 AM
Trichlorofluoromethane	4.1	µg/L		0.30	1.0	10/5/2011 2:01:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 2:01:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 2:01:00 AM
Vinyl chloride	17.1	µg/L		0.22	1.0	10/5/2011 2:01:00 AM
o-Xylene	14.6	µg/L		0.19	1.0	10/5/2011 2:01:00 AM
m,p-Xylene	25.3	µg/L		0.29	2.0	10/5/2011 2:01:00 AM
Surr: 1,2-Dichloroethane-d4	106	%REC			80-120	10/5/2011 2:01:00 AM
Surr: 4-Bromofluorobenzene	97.2	%REC			86-115	10/5/2011 2:01:00 AM
Surr: Dibromofluoromethane	108	%REC			80-120	10/5/2011 2:01:00 AM
Surr: Toluene-d8	98.6	%REC			88-110	10/5/2011 2:01:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	144	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-02A
Client Sample ID:	MW-3	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 8:09:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0011	mg/L	J	0.00100	0.0100	10/6/2011 10:11:43 PM
Lead	0.0013	mg/L	J	0.00020	0.0100	10/6/2011 10:11:43 PM
Nickel	0.0068	mg/L	J	0.00200	0.0500	10/6/2011 10:11:43 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	99.9	µg/L		48.8	50.0	10/6/2011 2:21:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 2:34:00 AM
Benzene	2.0	µg/L		0.13	1.0	10/5/2011 2:34:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 2:34:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 2:34:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 2:34:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 2:34:00 AM
2-Butanone	58.7	µg/L		46.8	50.0	10/6/2011 2:21:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 2:34:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 2:34:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 2:34:00 AM
Chloroethane	7.2	µg/L	J	0.94	10	10/5/2011 2:34:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 2:34:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 2:34:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 2:34:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 2:34:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 2:34:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 2:34:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 2:34:00 AM
1,4-Dichlorobenzene	0.6	µg/L	J	0.29	1.0	10/5/2011 2:34:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 2:34:00 AM
1,1-Dichloroethane	50.4	µg/L		3.83	50.0	10/6/2011 2:21:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 2:34:00 AM
1,1-Dichloroethene	2.7	µg/L	J	0.33	5.0	10/5/2011 2:34:00 AM
cis-1,2-Dichloroethene	2.4	µg/L	J	0.23	5.0	10/5/2011 2:34:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 2:34:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 2:34:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:34:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:34:00 AM
Ethylbenzene	0.2	µg/L	J	0.18	1.0	10/5/2011 2:34:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 2:34:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 2:34:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-02A
Client Sample ID:	MW-3	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 8:09:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	0.9	µg/L	J	0.54	1.0	10/5/2011 2:34:00 AM
4-Methyl-2-pentanone	14.4	µg/L	J	4.40	100	10/5/2011 2:34:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 2:34:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 2:34:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 2:34:00 AM
Tetrachloroethene	3.3	µg/L		0.20	1.0	10/5/2011 2:34:00 AM
Toluene	0.8	µg/L	J	0.17	1.0	10/5/2011 2:34:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 2:34:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 2:34:00 AM
Trichloroethene	4.8	µg/L		0.30	1.0	10/5/2011 2:34:00 AM
Trichlorofluoromethane	1.6	µg/L		0.30	1.0	10/5/2011 2:34:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 2:34:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 2:34:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 2:34:00 AM
o-Xylene	1.0	µg/L	J	0.19	1.0	10/5/2011 2:34:00 AM
m,p-Xylene	11.5	µg/L		0.29	2.0	10/5/2011 2:34:00 AM
Surr: 1,2-Dichloroethane-d4	107	%REC			80-120	10/5/2011 2:34:00 AM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	10/5/2011 2:34:00 AM
Surr: Dibromofluoromethane	105	%REC			80-120	10/5/2011 2:34:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 2:34:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	30	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-03A
Client Sample ID:	MW-9	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 12:30:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0052	mg/L	J	0.00100	0.0100	10/6/2011 10:29:16 PM
Lead	0.0014	mg/L	J	0.00020	0.0100	10/6/2011 10:29:16 PM
Nickel	0.195	mg/L		0.00200	0.0500	10/6/2011 10:29:16 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 3:08:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 3:08:00 AM
Benzene	15.4	µg/L		0.13	1.0	10/5/2011 3:08:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 3:08:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 3:08:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 3:08:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 3:08:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 3:08:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 3:08:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 3:08:00 AM
Chlorobenzene	1.5	µg/L	J	0.18	3.0	10/5/2011 3:08:00 AM
Chloroethane	3.3	µg/L	J	0.94	10	10/5/2011 3:08:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 3:08:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 3:08:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 3:08:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 3:08:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 3:08:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 3:08:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 3:08:00 AM
1,4-Dichlorobenzene	9.5	µg/L		0.29	1.0	10/5/2011 3:08:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 3:08:00 AM
1,1-Dichloroethane	434	µg/L		19.2	250	10/6/2011 3:30:00 PM
1,2-Dichloroethane	69.1	µg/L		4.28	10	10/6/2011 2:55:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 3:08:00 AM
cis-1,2-Dichloroethene	175	µg/L		2.26	50.0	10/6/2011 2:55:00 AM
trans-1,2-Dichloroethene	8.8	µg/L		0.39	5.0	10/5/2011 3:08:00 AM
1,2-Dichloropropane	28.9	µg/L		4.61	10	10/6/2011 2:55:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:08:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:08:00 AM
Ethylbenzene	6.5	µg/L		0.18	1.0	10/5/2011 3:08:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 3:08:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 3:08:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-03A
Client Sample ID:	MW-9	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 12:30:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	6.9	µg/L		0.54	1.0	10/5/2011 3:08:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 3:08:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 3:08:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 3:08:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 3:08:00 AM
Tetrachloroethene	0.6	µg/L	J	0.20	1.0	10/5/2011 3:08:00 AM
Toluene	31.3	µg/L		1.67	10	10/6/2011 2:55:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 3:08:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 3:08:00 AM
Trichloroethene	2.0	µg/L		0.30	1.0	10/5/2011 3:08:00 AM
Trichlorofluoromethane	2.4	µg/L		0.30	1.0	10/5/2011 3:08:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 3:08:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 3:08:00 AM
Vinyl chloride	82.3	µg/L		2.23	10	10/6/2011 2:55:00 AM
o-Xylene	26.1	µg/L		1.86	10	10/6/2011 2:55:00 AM
m,p-Xylene	23.2	µg/L		0.29	2.0	10/5/2011 3:08:00 AM
Surr: 1,2-Dichloroethane-d4	80.0	%REC			80-120	10/5/2011 3:08:00 AM
Surr: 4-Bromofluorobenzene	101	%REC			86-115	10/5/2011 3:08:00 AM
Surr: Dibromofluoromethane	108	%REC			80-120	10/5/2011 3:08:00 AM
Surr: Toluene-d8	101	%REC			88-110	10/5/2011 3:08:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	54	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-04A
Client Sample ID:	MW-10A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 1:40:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0160	mg/L		0.00100	0.0100	10/6/2011 10:35:08 PM
Lead	0.0019	mg/L	J	0.00020	0.0100	10/6/2011 10:35:08 PM
Nickel	0.0161	mg/L	J	0.00200	0.0500	10/6/2011 10:35:08 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 3:41:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 3:41:00 AM
Benzene	6.7	µg/L		0.13	1.0	10/5/2011 3:41:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 3:41:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 3:41:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 3:41:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 3:41:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 3:41:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 3:41:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 3:41:00 AM
Chlorobenzene	1.1	µg/L	J	0.18	3.0	10/5/2011 3:41:00 AM
Chloroethane	2.3	µg/L	J	0.94	10	10/5/2011 3:41:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 3:41:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 3:41:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 3:41:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 3:41:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 3:41:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 3:41:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 3:41:00 AM
1,4-Dichlorobenzene	7.8	µg/L		0.29	1.0	10/5/2011 3:41:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 3:41:00 AM
1,1-Dichloroethane	177	µg/L		3.83	50.0	10/6/2011 3:29:00 AM
1,2-Dichloroethane	8.7	µg/L		0.43	1.0	10/5/2011 3:41:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 3:41:00 AM
cis-1,2-Dichloroethene	6.1	µg/L		0.23	5.0	10/5/2011 3:41:00 AM
trans-1,2-Dichloroethene	1.4	µg/L	J	0.39	5.0	10/5/2011 3:41:00 AM
1,2-Dichloropropane	22.5	µg/L		0.46	1.0	10/5/2011 3:41:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:41:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:41:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 3:41:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 3:41:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 3:41:00 AM

Key:

MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-04A
Client Sample ID:	MW-10A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 1:40:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 3:41:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 3:41:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 3:41:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 3:41:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 3:41:00 AM
Tetrachloroethene	1.3	µg/L		0.20	1.0	10/5/2011 3:41:00 AM
Toluene	0.4	µg/L	J	0.17	1.0	10/5/2011 3:41:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 3:41:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 3:41:00 AM
Trichloroethene	0.4	µg/L	J	0.30	1.0	10/5/2011 3:41:00 AM
Trichlorofluoromethane	1.9	µg/L		0.30	1.0	10/5/2011 3:41:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 3:41:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 3:41:00 AM
Vinyl chloride	7.8	µg/L		0.22	1.0	10/5/2011 3:41:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 3:41:00 AM
m,p-Xylene	0.7	µg/L	J	0.29	2.0	10/5/2011 3:41:00 AM
Surr: 1,2-Dichloroethane-d4	114	%REC			80-120	10/5/2011 3:41:00 AM
Surr: 4-Bromofluorobenzene	99.7	%REC			86-115	10/5/2011 3:41:00 AM
Surr: Dibromofluoromethane	107	%REC			80-120	10/5/2011 3:41:00 AM
Surr: Toluene-d8	101	%REC			88-110	10/5/2011 3:41:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	249	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-05A
Client Sample ID:	MW-10B	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 1:13:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/6/2011 10:40:59 PM
Lead	0.0005	mg/L	J	0.00020	0.0100	10/6/2011 10:40:59 PM
Nickel	0.0033	mg/L	J	0.00200	0.0500	10/6/2011 10:40:59 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 4:14:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 4:14:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 4:14:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 4:14:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 4:14:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 4:14:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 4:14:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 4:14:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 4:14:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 4:14:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 4:14:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 4:14:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 4:14:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 4:14:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 4:14:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 4:14:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 4:14:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 4:14:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 4:14:00 AM
1,4-Dichlorobenzene	1.6	µg/L		0.29	1.0	10/5/2011 4:14:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 4:14:00 AM
1,1-Dichloroethane	32.6	µg/L		3.83	10	10/10/2011 5:38:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 4:14:00 AM
1,1-Dichloroethene	0.5	µg/L	J	0.33	5.0	10/5/2011 4:14:00 AM
cis-1,2-Dichloroethene	13.5	µg/L		0.23	5.0	10/5/2011 4:14:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 4:14:00 AM
1,2-Dichloropropane	0.7	µg/L	J	0.46	1.0	10/5/2011 4:14:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 4:14:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 4:14:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 4:14:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 4:14:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 4:14:00 AM

Key:

MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-05A
Client Sample ID:	MW-10B	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 1:13:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	1.4	µg/L		0.54	1.0	10/5/2011 4:14:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 4:14:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 4:14:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 4:14:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 4:14:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 4:14:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 4:14:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 4:14:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 4:14:00 AM
Trichloroethene	5.4	µg/L		0.30	1.0	10/5/2011 4:14:00 AM
Trichlorofluoromethane	0.3	µg/L	J	0.30	1.0	10/5/2011 4:14:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 4:14:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 4:14:00 AM
Vinyl chloride	4.4	µg/L		0.22	1.0	10/5/2011 4:14:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 4:14:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 4:14:00 AM
Surr: 1,2-Dichloroethane-d4	109	%REC			80-120	10/5/2011 4:14:00 AM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	10/5/2011 4:14:00 AM
Surr: Dibromofluoromethane	106	%REC			80-120	10/5/2011 4:14:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 4:14:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	8	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-06A
Client Sample ID:	MW-11	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 1:02:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0033	mg/L	J	0.00100	0.0100	10/6/2011 10:46:52 PM
Lead	0.0002	mg/L	J	0.00020	0.0100	10/6/2011 10:46:52 PM
Nickel	0.0023	mg/L	J	0.00200	0.0500	10/6/2011 10:46:52 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 4:47:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 4:47:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 4:47:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 4:47:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 4:47:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 4:47:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 4:47:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 4:47:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 4:47:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 4:47:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 4:47:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 4:47:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 4:47:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 4:47:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 4:47:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 4:47:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 4:47:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 4:47:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 4:47:00 AM
1,4-Dichlorobenzene	0.3	µg/L	J	0.29	1.0	10/5/2011 4:47:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 4:47:00 AM
1,1-Dichloroethane	11.5	µg/L		0.38	5.0	10/5/2011 4:47:00 AM
1,2-Dichloroethane	7.4	µg/L		0.43	1.0	10/5/2011 4:47:00 AM
1,1-Dichloroethene	1.2	µg/L	J	0.33	5.0	10/5/2011 4:47:00 AM
cis-1,2-Dichloroethene	0.8	µg/L	J	0.23	5.0	10/5/2011 4:47:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 4:47:00 AM
1,2-Dichloropropane	1.0	µg/L		0.46	1.0	10/5/2011 4:47:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 4:47:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 4:47:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 4:47:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 4:47:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 4:47:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-06A
Client Sample ID:	MW-11	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 1:02:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	0.8	µg/L	J	0.54	1.0	10/5/2011 4:47:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 4:47:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 4:47:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 4:47:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 4:47:00 AM
Tetrachloroethene	2.1	µg/L		0.20	1.0	10/5/2011 4:47:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 4:47:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 4:47:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 4:47:00 AM
Trichloroethene	1.4	µg/L		0.30	1.0	10/5/2011 4:47:00 AM
Trichlorofluoromethane	19.6	µg/L		0.30	1.0	10/5/2011 4:47:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 4:47:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 4:47:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 4:47:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 4:47:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 4:47:00 AM
Surr: 1,2-Dichloroethane-d4	109	%REC			80-120	10/5/2011 4:47:00 AM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	10/5/2011 4:47:00 AM
Surr: Dibromofluoromethane	107	%REC			80-120	10/5/2011 4:47:00 AM
Surr: Toluene-d8	103	%REC			88-110	10/5/2011 4:47:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	54	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-07A
Client Sample ID:	MW-13	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:07:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/6/2011 10:52:44 PM
Lead	ND	mg/L		0.00020	0.0100	10/6/2011 10:52:44 PM
Nickel	ND	mg/L		0.00200	0.0500	10/6/2011 10:52:44 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 5:20:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 5:20:00 AM
Benzene	0.4	µg/L	J	0.13	1.0	10/5/2011 5:20:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 5:20:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 5:20:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 5:20:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 5:20:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 5:20:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 5:20:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 5:20:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 5:20:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 5:20:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 5:20:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 5:20:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 5:20:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 5:20:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 5:20:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 5:20:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 5:20:00 AM
1,4-Dichlorobenzene	0.3	µg/L	J	0.29	1.0	10/5/2011 5:20:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 5:20:00 AM
1,1-Dichloroethane	38.7	µg/L		3.83	10	10/6/2011 4:38:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 5:20:00 AM
1,1-Dichloroethene	2.6	µg/L	J	0.33	5.0	10/5/2011 5:20:00 AM
cis-1,2-Dichloroethene	36.6	µg/L		2.26	10	10/6/2011 4:38:00 AM
trans-1,2-Dichloroethene	1.8	µg/L	J	0.39	5.0	10/5/2011 5:20:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 5:20:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:20:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:20:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 5:20:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 5:20:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 5:20:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-07A
Client Sample ID:	MW-13	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:07:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 5:20:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 5:20:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 5:20:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 5:20:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 5:20:00 AM
Tetrachloroethene	2.3	µg/L		0.20	1.0	10/5/2011 5:20:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 5:20:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 5:20:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 5:20:00 AM
Trichloroethene	21.4	µg/L		0.30	1.0	10/5/2011 5:20:00 AM
Trichlorofluoromethane	12.6	µg/L		0.30	1.0	10/5/2011 5:20:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 5:20:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 5:20:00 AM
Vinyl chloride	5.4	µg/L		0.22	1.0	10/5/2011 5:20:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 5:20:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 5:20:00 AM
Surr: 1,2-Dichloroethane-d4	107	%REC			80-120	10/5/2011 5:20:00 AM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	10/5/2011 5:20:00 AM
Surr: Dibromofluoromethane	108	%REC			80-120	10/5/2011 5:20:00 AM
Surr: Toluene-d8	103	%REC			88-110	10/5/2011 5:20:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	8	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-08A
Client Sample ID:	MW-14	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 1:25:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/6/2011 10:58:36 PM
Lead	0.0004	mg/L	J	0.00020	0.0100	10/6/2011 10:58:36 PM
Nickel	0.0022	mg/L	J	0.00200	0.0500	10/6/2011 10:58:36 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 5:53:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 5:53:00 AM
Benzene	15.5	µg/L		0.13	1.0	10/5/2011 5:53:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 5:53:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 5:53:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 5:53:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 5:53:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 5:53:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 5:53:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 5:53:00 AM
Chlorobenzene	8.8	µg/L		0.18	3.0	10/5/2011 5:53:00 AM
Chloroethane	14.5	µg/L		0.94	10	10/5/2011 5:53:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 5:53:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 5:53:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 5:53:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 5:53:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 5:53:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 5:53:00 AM
1,2-Dichlorobenzene	0.7	µg/L	J	0.45	5.0	10/5/2011 5:53:00 AM
1,4-Dichlorobenzene	24.8	µg/L		2.87	10	10/6/2011 5:11:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 5:53:00 AM
1,1-Dichloroethane	242	µg/L		3.83	50.0	10/6/2011 5:11:00 AM
1,2-Dichloroethane	5.1	µg/L		0.43	1.0	10/5/2011 5:53:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 5:53:00 AM
cis-1,2-Dichloroethene	250	µg/L		2.26	50.0	10/6/2011 5:11:00 AM
trans-1,2-Dichloroethene	5.9	µg/L		0.39	5.0	10/5/2011 5:53:00 AM
1,2-Dichloropropane	3.9	µg/L		0.46	1.0	10/5/2011 5:53:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:53:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:53:00 AM
Ethylbenzene	16.7	µg/L		0.18	1.0	10/5/2011 5:53:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 5:53:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 5:53:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-08A
Client Sample ID:	MW-14	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 1:25:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	2.3	µg/L		0.54	1.0	10/5/2011 5:53:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 5:53:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 5:53:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 5:53:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 5:53:00 AM
Tetrachloroethene	4.0	µg/L		0.20	1.0	10/5/2011 5:53:00 AM
Toluene	4.3	µg/L		0.17	1.0	10/5/2011 5:53:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 5:53:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 5:53:00 AM
Trichloroethene	34.1	µg/L		3.02	10	10/6/2011 5:11:00 AM
Trichlorofluoromethane	3.1	µg/L		0.30	1.0	10/5/2011 5:53:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 5:53:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 5:53:00 AM
Vinyl chloride	38.6	µg/L		2.23	10	10/6/2011 5:11:00 AM
o-Xylene	17.0	µg/L		0.19	1.0	10/5/2011 5:53:00 AM
m,p-Xylene	193	µg/L		2.87	20.0	10/6/2011 5:11:00 AM
Surr: 1,2-Dichloroethane-d4	106	%REC			80-120	10/5/2011 5:53:00 AM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	10/5/2011 5:53:00 AM
Surr: Dibromofluoromethane	108	%REC			80-120	10/5/2011 5:53:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 5:53:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	62	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-09A
Client Sample ID:	MW-14A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 1:11:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0042	mg/L	J	0.00100	0.0100	10/6/2011 11:04:29 PM
Lead	0.0002	mg/L	J	0.00020	0.0100	10/6/2011 11:04:29 PM
Nickel	0.0024	mg/L	J	0.00200	0.0500	10/6/2011 11:04:29 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 6:27:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 6:27:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 6:27:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 6:27:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 6:27:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 6:27:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 6:27:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 6:27:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 6:27:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 6:27:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 6:27:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 6:27:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 6:27:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 6:27:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 6:27:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 6:27:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 6:27:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 6:27:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 6:27:00 AM
1,4-Dichlorobenzene	5.0	µg/L		0.29	1.0	10/5/2011 6:27:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 6:27:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 6:27:00 AM
1,2-Dichloroethane	1.2	µg/L		0.43	1.0	10/5/2011 6:27:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 6:27:00 AM
cis-1,2-Dichloroethene	3.1	µg/L	J	0.23	5.0	10/5/2011 6:27:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 6:27:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 6:27:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 6:27:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 6:27:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 6:27:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 6:27:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 6:27:00 AM

Key:

MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-09A
Client Sample ID:	MW-14A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 1:11:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 6:27:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 6:27:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 6:27:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 6:27:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 6:27:00 AM
Tetrachloroethene	20.3	µg/L		0.20	1.0	10/6/2011 5:44:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 6:27:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 6:27:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 6:27:00 AM
Trichloroethene	6.6	µg/L		0.30	1.0	10/5/2011 6:27:00 AM
Trichlorofluoromethane	1.7	µg/L		0.30	1.0	10/5/2011 6:27:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 6:27:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 6:27:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 6:27:00 AM
o-Xylene	0.2	µg/L	J	0.19	1.0	10/5/2011 6:27:00 AM
m,p-Xylene	2.2	µg/L		0.29	2.0	10/5/2011 6:27:00 AM
Surr: 1,2-Dichloroethane-d4	105	%REC			80-120	10/5/2011 6:27:00 AM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	10/5/2011 6:27:00 AM
Surr: Dibromofluoromethane	104	%REC			80-120	10/5/2011 6:27:00 AM
Surr: Toluene-d8	105	%REC			88-110	10/5/2011 6:27:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	27	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-10A
Client Sample ID:	MW-15	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 8:59:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0012	mg/L	J	0.00100	0.0100	10/6/2011 11:10:22 PM
Lead	0.0008	mg/L	J	0.00020	0.0100	10/6/2011 11:10:22 PM
Nickel	0.0047	mg/L	J	0.00200	0.0500	10/6/2011 11:10:22 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 7:00:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 7:00:00 AM
Benzene	15.2	µg/L		0.13	1.0	10/5/2011 7:00:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 7:00:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 7:00:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 7:00:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 7:00:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 7:00:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 7:00:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 7:00:00 AM
Chlorobenzene	4.8	µg/L		0.18	3.0	10/5/2011 7:00:00 AM
Chloroethane	1.9	µg/L	J	0.94	10	10/5/2011 7:00:00 AM
Chloroform	0.3	µg/L	J	0.25	5.0	10/5/2011 7:00:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 7:00:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 7:00:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 7:00:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 7:00:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 7:00:00 AM
1,2-Dichlorobenzene	0.7	µg/L	J	0.45	5.0	10/5/2011 7:00:00 AM
1,4-Dichlorobenzene	5.7	µg/L		0.29	1.0	10/5/2011 7:00:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 7:00:00 AM
1,1-Dichloroethane	434	µg/L		38.3	100	10/6/2011 8:01:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 7:00:00 AM
1,1-Dichloroethene	2.4	µg/L	J	0.33	5.0	10/5/2011 7:00:00 AM
cis-1,2-Dichloroethene	464	µg/L		22.6	100	10/6/2011 8:01:00 AM
trans-1,2-Dichloroethene	10.6	µg/L		0.39	5.0	10/5/2011 7:00:00 AM
1,2-Dichloropropane	1.3	µg/L		0.46	1.0	10/5/2011 7:00:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 7:00:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 7:00:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 7:00:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 7:00:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 7:00:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-10A
Client Sample ID:	MW-15	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 8:59:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	82.4	µg/L		5.39	10	10/6/2011 6:19:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 7:00:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 7:00:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 7:00:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 7:00:00 AM
Tetrachloroethene	6.8	µg/L		0.20	1.0	10/5/2011 7:00:00 AM
Toluene	0.2	µg/L	J	0.17	1.0	10/5/2011 7:00:00 AM
1,1,1-Trichloroethane	0.6	µg/L	J	0.35	1.0	10/5/2011 7:00:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 7:00:00 AM
Trichloroethene	110	µg/L		3.02	10	10/6/2011 6:19:00 AM
Trichlorofluoromethane	16.5	µg/L		0.30	1.0	10/5/2011 7:00:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 7:00:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 7:00:00 AM
Vinyl chloride	10.2	µg/L		0.22	1.0	10/5/2011 7:00:00 AM
o-Xylene	24.9	µg/L		0.19	1.0	10/5/2011 7:00:00 AM
m,p-Xylene	22.3	µg/L		0.29	2.0	10/5/2011 7:00:00 AM
Surr: 1,2-Dichloroethane-d4	103	%REC			80-120	10/5/2011 7:00:00 AM
Surr: 4-Bromofluorobenzene	100	%REC			86-115	10/5/2011 7:00:00 AM
Surr: Dibromofluoromethane	109	%REC			80-120	10/5/2011 7:00:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 7:00:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	112	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-11A
Client Sample ID:	MW-16	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 12:13:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0049	mg/L	J	0.00100	0.0100	10/6/2011 11:16:16 PM
Lead	0.0007	mg/L	J	0.00020	0.0100	10/6/2011 11:16:16 PM
Nickel	0.0131	mg/L	J	0.00200	0.0500	10/6/2011 11:16:16 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 7:33:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 7:33:00 AM
Benzene	2.4	µg/L		0.13	1.0	10/5/2011 7:33:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 7:33:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 7:33:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 7:33:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 7:33:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 7:33:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 7:33:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 7:33:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 7:33:00 AM
Chloroethane	10.1	µg/L		0.94	10	10/5/2011 7:33:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 7:33:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 7:33:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 7:33:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 7:33:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 7:33:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 7:33:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 7:33:00 AM
1,4-Dichlorobenzene	1.7	µg/L		0.29	1.0	10/5/2011 7:33:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 7:33:00 AM
1,1-Dichloroethane	114	µg/L		3.83	50.0	10/6/2011 6:53:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 7:33:00 AM
1,1-Dichloroethene	1.8	µg/L	J	0.33	5.0	10/5/2011 7:33:00 AM
cis-1,2-Dichloroethene	17.8	µg/L		0.23	5.0	10/5/2011 7:33:00 AM
trans-1,2-Dichloroethene	0.7	µg/L	J	0.39	5.0	10/5/2011 7:33:00 AM
1,2-Dichloropropane	0.8	µg/L	J	0.46	1.0	10/5/2011 7:33:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 7:33:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 7:33:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 7:33:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 7:33:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 7:33:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-11A
Client Sample ID:	MW-16	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 12:13:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 7:33:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 7:33:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 7:33:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 7:33:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 7:33:00 AM
Tetrachloroethene	1.3	µg/L		0.20	1.0	10/5/2011 7:33:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 7:33:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 7:33:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 7:33:00 AM
Trichloroethene	20.2	µg/L		0.30	1.0	10/5/2011 7:33:00 AM
Trichlorofluoromethane	10.5	µg/L		0.30	1.0	10/5/2011 7:33:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 7:33:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 7:33:00 AM
Vinyl chloride	10.7	µg/L		0.22	1.0	10/5/2011 7:33:00 AM
o-Xylene	0.4	µg/L	J	0.19	1.0	10/5/2011 7:33:00 AM
m,p-Xylene	0.3	µg/L	J	0.29	2.0	10/5/2011 7:33:00 AM
Surr: 1,2-Dichloroethane-d4	104	%REC			80-120	10/5/2011 7:33:00 AM
Surr: 4-Bromofluorobenzene	103	%REC			86-115	10/5/2011 7:33:00 AM
Surr: Dibromofluoromethane	106	%REC			80-120	10/5/2011 7:33:00 AM
Surr: Toluene-d8	104	%REC			88-110	10/5/2011 7:33:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	86	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-12A
Client Sample ID:	MW-16A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:51:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/6/2011 11:22:09 PM
Lead	ND	mg/L		0.00020	0.0100	10/6/2011 11:22:09 PM
Nickel	ND	mg/L		0.00200	0.0500	10/6/2011 11:22:09 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 8:06:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 8:06:00 AM
Benzene	0.3	µg/L	J	0.13	1.0	10/5/2011 8:06:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 8:06:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 8:06:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 8:06:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 8:06:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 8:06:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 8:06:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 8:06:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 8:06:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 8:06:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 8:06:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 8:06:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 8:06:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 8:06:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 8:06:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 8:06:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 8:06:00 AM
1,4-Dichlorobenzene	0.5	µg/L	J	0.29	1.0	10/5/2011 8:06:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 8:06:00 AM
1,1-Dichloroethane	35.6	µg/L		3.83	10	10/6/2011 7:27:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 8:06:00 AM
1,1-Dichloroethene	2.9	µg/L	J	0.33	5.0	10/5/2011 8:06:00 AM
cis-1,2-Dichloroethene	38.3	µg/L		2.26	10	10/6/2011 7:27:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 8:06:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 8:06:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 8:06:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 8:06:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 8:06:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 8:06:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 8:06:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-12A
Client Sample ID:	MW-16A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:51:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 8:06:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 8:06:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 8:06:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 8:06:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 8:06:00 AM
Tetrachloroethene	1.7	µg/L		0.20	1.0	10/5/2011 8:06:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 8:06:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 8:06:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 8:06:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 8:06:00 AM
Trichlorofluoromethane	15.2	µg/L		0.30	1.0	10/5/2011 8:06:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 8:06:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 8:06:00 AM
Vinyl chloride	4.7	µg/L		0.22	1.0	10/5/2011 8:06:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 8:06:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 8:06:00 AM
Surr: 1,2-Dichloroethane-d4	105	%REC			80-120	10/5/2011 8:06:00 AM
Surr: 4-Bromofluorobenzene	101	%REC			86-115	10/5/2011 8:06:00 AM
Surr: Dibromofluoromethane	106	%REC			80-120	10/5/2011 8:06:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 8:06:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	3	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-13A
Client Sample ID:	MW-20	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 9:06:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0010	mg/L	J	0.00100	0.0100	10/6/2011 11:39:41 PM
Lead	ND	mg/L		0.00020	0.0100	10/6/2011 11:39:41 PM
Nickel	0.0030	mg/L	J	0.00200	0.0500	10/6/2011 11:39:41 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/4/2011 11:47:00 PM
Acrylonitrile	ND	µg/L		4.24	200	10/4/2011 11:47:00 PM
Benzene	18.4	µg/L		0.13	1.0	10/4/2011 11:47:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	10/4/2011 11:47:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/4/2011 11:47:00 PM
Bromoform	ND	µg/L		0.40	3.0	10/4/2011 11:47:00 PM
Bromomethane	ND	µg/L		0.50	10	10/4/2011 11:47:00 PM
2-Butanone	ND	µg/L		4.68	100	10/4/2011 11:47:00 PM
Carbon disulfide	ND	µg/L		1.27	100	10/4/2011 11:47:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/4/2011 11:47:00 PM
Chlorobenzene	1.6	µg/L	J	0.18	3.0	10/4/2011 11:47:00 PM
Chloroethane	ND	µg/L		0.94	10	10/4/2011 11:47:00 PM
Chloroform	ND	µg/L		0.25	5.0	10/4/2011 11:47:00 PM
Chloromethane	ND	µg/L		0.33	1.0	10/4/2011 11:47:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/4/2011 11:47:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/4/2011 11:47:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/4/2011 11:47:00 PM
Dibromomethane	ND	µg/L		0.29	10	10/4/2011 11:47:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/4/2011 11:47:00 PM
1,4-Dichlorobenzene	3.9	µg/L		0.29	1.0	10/4/2011 11:47:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/4/2011 11:47:00 PM
1,1-Dichloroethane	587	µg/L		38.3	500	10/6/2011 9:09:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/4/2011 11:47:00 PM
1,1-Dichloroethene	6.4	µg/L		0.33	5.0	10/4/2011 11:47:00 PM
cis-1,2-Dichloroethene	1,400	µg/L		22.6	500	10/6/2011 9:09:00 AM
trans-1,2-Dichloroethene	5.9	µg/L		0.39	5.0	10/4/2011 11:47:00 PM
1,2-Dichloropropane	8.5	µg/L		0.46	1.0	10/4/2011 11:47:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/4/2011 11:47:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/4/2011 11:47:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/4/2011 11:47:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	10/4/2011 11:47:00 PM
Iodomethane	ND	µg/L		3.44	10	10/4/2011 11:47:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-13A
Client Sample ID:	MW-20	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 9:06:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	53.0	µg/L		5.39	10	10/6/2011 5:14:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/4/2011 11:47:00 PM
Styrene	ND	µg/L		0.24	1.0	10/4/2011 11:47:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/4/2011 11:47:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/4/2011 11:47:00 PM
Tetrachloroethene	66.1	µg/L		1.96	10	10/6/2011 5:14:00 PM
Toluene	ND	µg/L		0.17	1.0	10/4/2011 11:47:00 PM
1,1,1-Trichloroethane	3.1	µg/L		0.35	1.0	10/4/2011 11:47:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/4/2011 11:47:00 PM
Trichloroethene	900	µg/L		30.2	100	10/6/2011 9:09:00 AM
Trichlorofluoromethane	17.4	µg/L		0.30	1.0	10/4/2011 11:47:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/4/2011 11:47:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	10/4/2011 11:47:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	10/4/2011 11:47:00 PM
o-Xylene	17.2	µg/L		0.19	1.0	10/4/2011 11:47:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/4/2011 11:47:00 PM
Surr: 1,2-Dichloroethane-d4	102	%REC			80-120	10/4/2011 11:47:00 PM
Surr: 4-Bromofluorobenzene	101	%REC			86-115	10/4/2011 11:47:00 PM
Surr: Dibromofluoromethane	112	%REC			80-120	10/4/2011 11:47:00 PM
Surr: Toluene-d8	103	%REC			88-110	10/4/2011 11:47:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	1	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-14A
Client Sample ID:	MW-21	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 5:14:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0057	mg/L	J	0.00100	0.0100	10/6/2011 11:45:33 PM
Lead	0.0005	mg/L	J	0.00020	0.0100	10/6/2011 11:45:33 PM
Nickel	0.0027	mg/L	J	0.00200	0.0500	10/6/2011 11:45:33 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/6/2011 11:54:00 PM
Acrylonitrile	ND	µg/L		4.24	200	10/6/2011 11:54:00 PM
Benzene	ND	µg/L		0.13	1.0	10/6/2011 11:54:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	10/6/2011 11:54:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/6/2011 11:54:00 PM
Bromoform	ND	µg/L		0.40	3.0	10/6/2011 11:54:00 PM
Bromomethane	ND	µg/L		0.50	10	10/6/2011 11:54:00 PM
2-Butanone	ND	µg/L		4.68	100	10/6/2011 11:54:00 PM
Carbon disulfide	ND	µg/L		1.27	100	10/6/2011 11:54:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/6/2011 11:54:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	10/6/2011 11:54:00 PM
Chloroethane	ND	µg/L		0.94	10	10/6/2011 11:54:00 PM
Chloroform	ND	µg/L		0.25	5.0	10/6/2011 11:54:00 PM
Chloromethane	ND	µg/L		0.33	1.0	10/6/2011 11:54:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/6/2011 11:54:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/6/2011 11:54:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/6/2011 11:54:00 PM
Dibromomethane	ND	µg/L		0.29	10	10/6/2011 11:54:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/6/2011 11:54:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/6/2011 11:54:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/6/2011 11:54:00 PM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/6/2011 11:54:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/6/2011 11:54:00 PM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/6/2011 11:54:00 PM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/6/2011 11:54:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/6/2011 11:54:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/6/2011 11:54:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/6/2011 11:54:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/6/2011 11:54:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/6/2011 11:54:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	10/6/2011 11:54:00 PM
Iodomethane	ND	µg/L		3.44	10	10/6/2011 11:54:00 PM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-14A
Client Sample ID:	MW-21	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 5:14:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/6/2011 11:54:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/6/2011 11:54:00 PM
Styrene	ND	µg/L		0.24	1.0	10/6/2011 11:54:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/6/2011 11:54:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/6/2011 11:54:00 PM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/6/2011 11:54:00 PM
Toluene	ND	µg/L		0.17	1.0	10/6/2011 11:54:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/6/2011 11:54:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/6/2011 11:54:00 PM
Trichloroethene	ND	µg/L		0.30	1.0	10/6/2011 11:54:00 PM
Trichlorofluoromethane	0.5	µg/L	J	0.30	1.0	10/6/2011 11:54:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/6/2011 11:54:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	10/6/2011 11:54:00 PM
Vinyl chloride	ND	µg/L		0.22	1.0	10/6/2011 11:54:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/6/2011 11:54:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/6/2011 11:54:00 PM
Surr: 1,2-Dichloroethane-d4	104	%REC			80-120	10/6/2011 11:54:00 PM
Surr: 4-Bromofluorobenzene	100	%REC			86-115	10/6/2011 11:54:00 PM
Surr: Dibromofluoromethane	106	%REC			80-120	10/6/2011 11:54:00 PM
Surr: Toluene-d8	100	%REC			88-110	10/6/2011 11:54:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	3	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-15A
Client Sample ID:	MW-23	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 7:35:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/6/2011 11:51:24 PM
Lead	0.0005	mg/L	J	0.00020	0.0100	10/6/2011 11:51:24 PM
Nickel	0.0026	mg/L	J	0.00200	0.0500	10/6/2011 11:51:24 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 12:54:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 12:54:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 12:54:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 12:54:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 12:54:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 12:54:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 12:54:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 12:54:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 12:54:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 12:54:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 12:54:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 12:54:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 12:54:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 12:54:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 12:54:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 12:54:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 12:54:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 12:54:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 12:54:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 12:54:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 12:54:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 12:54:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 12:54:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 12:54:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 12:54:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 12:54:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 12:54:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 12:54:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 12:54:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 12:54:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 12:54:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 12:54:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-15A
Client Sample ID:	MW-23	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 7:35:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 12:54:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 12:54:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 12:54:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 12:54:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 12:54:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 12:54:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 12:54:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 12:54:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 12:54:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 12:54:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 12:54:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 12:54:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 12:54:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 12:54:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 12:54:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 12:54:00 AM
Surr: 1,2-Dichloroethane-d4	105	%REC			80-120	10/5/2011 12:54:00 AM
Surr: 4-Bromofluorobenzene	99.3	%REC			86-115	10/5/2011 12:54:00 AM
Surr: Dibromofluoromethane	110	%REC			80-120	10/5/2011 12:54:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 12:54:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	522	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-16A
Client Sample ID:	MW-24	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 10:13:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0020	mg/L	J	0.00100	0.0100	10/6/2011 11:57:17 PM
Lead	0.0006	mg/L	J	0.00020	0.0100	10/6/2011 11:57:17 PM
Nickel	0.0032	mg/L	J	0.00200	0.0500	10/6/2011 11:57:17 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 1:26:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 1:26:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 1:26:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 1:26:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 1:26:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 1:26:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 1:26:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 1:26:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 1:26:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 1:26:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 1:26:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 1:26:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 1:26:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 1:26:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 1:26:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 1:26:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 1:26:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 1:26:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 1:26:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 1:26:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 1:26:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 1:26:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 1:26:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 1:26:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 1:26:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 1:26:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 1:26:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 1:26:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 1:26:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 1:26:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 1:26:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 1:26:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-16A
Client Sample ID:	MW-24	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 10:13:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 1:26:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 1:26:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 1:26:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 1:26:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 1:26:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 1:26:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 1:26:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 1:26:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 1:26:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 1:26:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 1:26:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 1:26:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 1:26:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 1:26:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 1:26:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 1:26:00 AM
Surr: 1,2-Dichloroethane-d4	107	%REC			80-120	10/5/2011 1:26:00 AM
Surr: 4-Bromofluorobenzene	99.0	%REC			86-115	10/5/2011 1:26:00 AM
Surr: Dibromofluoromethane	113	%REC			80-120	10/5/2011 1:26:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 1:26:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	802	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-17A
Client Sample ID:	MW-24D	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 10:18:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0018	mg/L	J	0.00100	0.0100	10/7/2011 12:03:09 AM
Lead	ND	mg/L		0.00020	0.0100	10/7/2011 12:03:09 AM
Nickel	0.0024	mg/L	J	0.00200	0.0500	10/7/2011 12:03:09 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 2:00:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 2:00:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 2:00:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 2:00:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 2:00:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 2:00:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 2:00:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 2:00:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 2:00:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 2:00:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 2:00:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 2:00:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 2:00:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 2:00:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 2:00:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 2:00:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 2:00:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 2:00:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 2:00:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 2:00:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 2:00:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 2:00:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 2:00:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 2:00:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 2:00:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 2:00:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 2:00:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:00:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:00:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 2:00:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 2:00:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 2:00:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-17A
Client Sample ID:	MW-24D	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 10:18:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 2:00:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 2:00:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 2:00:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 2:00:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 2:00:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 2:00:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 2:00:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 2:00:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 2:00:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 2:00:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 2:00:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 2:00:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 2:00:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 2:00:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 2:00:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 2:00:00 AM
Surr: 1,2-Dichloroethane-d4	105	%REC			80-120	10/5/2011 2:00:00 AM
Surr: 4-Bromofluorobenzene	99.2	%REC			86-115	10/5/2011 2:00:00 AM
Surr: Dibromofluoromethane	114	%REC			80-120	10/5/2011 2:00:00 AM
Surr: Toluene-d8	101	%REC			88-110	10/5/2011 2:00:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	78	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-18A
Client Sample ID:	OW-1	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 8:41:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/7/2011 12:09:03 AM
Lead	0.0008	mg/L	J	0.00020	0.0100	10/7/2011 12:09:03 AM
Nickel	0.0022	mg/L	J	0.00200	0.0500	10/7/2011 12:09:03 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 2:33:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 2:33:00 AM
Benzene	5.3	µg/L		0.13	1.0	10/5/2011 2:33:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 2:33:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 2:33:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 2:33:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 2:33:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 2:33:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 2:33:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 2:33:00 AM
Chlorobenzene	2.3	µg/L	J	0.18	3.0	10/5/2011 2:33:00 AM
Chloroethane	9.1	µg/L	J	0.94	10	10/5/2011 2:33:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 2:33:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 2:33:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 2:33:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 2:33:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 2:33:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 2:33:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 2:33:00 AM
1,4-Dichlorobenzene	1.0	µg/L		0.29	1.0	10/5/2011 2:33:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 2:33:00 AM
1,1-Dichloroethane	53.1	µg/L		3.83	50.0	10/6/2011 5:48:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 2:33:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 2:33:00 AM
cis-1,2-Dichloroethene	43.5	µg/L	J	2.26	50.0	10/6/2011 5:48:00 PM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 2:33:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 2:33:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:33:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 2:33:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 2:33:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 2:33:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 2:33:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-18A
Client Sample ID:	OW-1	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 8:41:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	1.6	µg/L		0.54	1.0	10/5/2011 2:33:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 2:33:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 2:33:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 2:33:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 2:33:00 AM
Tetrachloroethene	4.5	µg/L		0.20	1.0	10/5/2011 2:33:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 2:33:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 2:33:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 2:33:00 AM
Trichloroethene	9.3	µg/L		0.30	1.0	10/5/2011 2:33:00 AM
Trichlorofluoromethane	0.8	µg/L	J	0.30	1.0	10/5/2011 2:33:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 2:33:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 2:33:00 AM
Vinyl chloride	10.9	µg/L		0.22	1.0	10/5/2011 2:33:00 AM
o-Xylene	5.6	µg/L		0.19	1.0	10/5/2011 2:33:00 AM
m,p-Xylene	4.4	µg/L		0.29	2.0	10/5/2011 2:33:00 AM
Surr: 1,2-Dichloroethane-d4	103	%REC			80-120	10/5/2011 2:33:00 AM
Surr: 4-Bromofluorobenzene	97.8	%REC			86-115	10/5/2011 2:33:00 AM
Surr: Dibromofluoromethane	111	%REC			80-120	10/5/2011 2:33:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 2:33:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	28	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-19A
Client Sample ID:	CR-1	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:40:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/7/2011 12:14:55 AM
Lead	ND	mg/L		0.00020	0.0100	10/7/2011 12:14:55 AM
Nickel	ND	mg/L		0.00200	0.0500	10/7/2011 12:14:55 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 3:06:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 3:06:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 3:06:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 3:06:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 3:06:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 3:06:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 3:06:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 3:06:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 3:06:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 3:06:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 3:06:00 AM
Chloroethane	2.0	µg/L	J	0.94	10	10/5/2011 3:06:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 3:06:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 3:06:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 3:06:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 3:06:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 3:06:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 3:06:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 3:06:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 3:06:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 3:06:00 AM
1,1-Dichloroethane	3.5	µg/L	J	0.38	5.0	10/5/2011 3:06:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 3:06:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 3:06:00 AM
cis-1,2-Dichloroethene	0.5	µg/L	J	0.23	5.0	10/5/2011 3:06:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 3:06:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 3:06:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:06:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:06:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 3:06:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 3:06:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 3:06:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-19A
Client Sample ID:	CR-1	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:40:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 3:06:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 3:06:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 3:06:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 3:06:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 3:06:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 3:06:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 3:06:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 3:06:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 3:06:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 3:06:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 3:06:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 3:06:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 3:06:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 3:06:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 3:06:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 3:06:00 AM
Surr: 1,2-Dichloroethane-d4	108	%REC			80-120	10/5/2011 3:06:00 AM
Surr: 4-Bromofluorobenzene	100	%REC			86-115	10/5/2011 3:06:00 AM
Surr: Dibromofluoromethane	113	%REC			80-120	10/5/2011 3:06:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 3:06:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	3	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-20A
Client Sample ID:	SW-2	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:29:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/7/2011 12:20:49 AM
Lead	ND	mg/L		0.00020	0.0100	10/7/2011 12:20:49 AM
Nickel	ND	mg/L		0.00200	0.0500	10/7/2011 12:20:49 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 3:39:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 3:39:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 3:39:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 3:39:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 3:39:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 3:39:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 3:39:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 3:39:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 3:39:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 3:39:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 3:39:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 3:39:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 3:39:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 3:39:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 3:39:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 3:39:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 3:39:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 3:39:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 3:39:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 3:39:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 3:39:00 AM
1,1-Dichloroethane	1.2	µg/L	J	0.38	5.0	10/5/2011 3:39:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 3:39:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 3:39:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 3:39:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 3:39:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 3:39:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:39:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 3:39:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 3:39:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 3:39:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 3:39:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-20A
Client Sample ID:	SW-2	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:29:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 3:39:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 3:39:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 3:39:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 3:39:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 3:39:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 3:39:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 3:39:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 3:39:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 3:39:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 3:39:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 3:39:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 3:39:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 3:39:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 3:39:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 3:39:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 3:39:00 AM
Surr: 1,2-Dichloroethane-d4	107	%REC			80-120	10/5/2011 3:39:00 AM
Surr: 4-Bromofluorobenzene	98.9	%REC			86-115	10/5/2011 3:39:00 AM
Surr: Dibromofluoromethane	112	%REC			80-120	10/5/2011 3:39:00 AM
Surr: Toluene-d8	100	%REC			88-110	10/5/2011 3:39:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	1	mg/L		1.0	1	10/1/2011 11:49:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-21A
Client Sample ID:	MW-23 DUPLICATE	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 7:35:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/6/2011 7:10:00 PM
Lead	0.0011	mg/L	J	0.00020	0.0100	10/6/2011 7:10:00 PM
Nickel	0.0022	mg/L	J	0.00200	0.0500	10/6/2011 7:10:00 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 4:13:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 4:13:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 4:13:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 4:13:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 4:13:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 4:13:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 4:13:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 4:13:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 4:13:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 4:13:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 4:13:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 4:13:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 4:13:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 4:13:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 4:13:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 4:13:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 4:13:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 4:13:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 4:13:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 4:13:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 4:13:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 4:13:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 4:13:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 4:13:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 4:13:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 4:13:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 4:13:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 4:13:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 4:13:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 4:13:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 4:13:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 4:13:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-21A
Client Sample ID:	MW-23 DUPLICATE	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 7:35:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 4:13:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 4:13:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 4:13:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 4:13:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 4:13:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 4:13:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 4:13:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 4:13:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 4:13:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 4:13:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 4:13:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 4:13:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 4:13:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 4:13:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 4:13:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 4:13:00 AM
Surr: 1,2-Dichloroethane-d4	106	%REC			80-120	10/5/2011 4:13:00 AM
Surr: 4-Bromofluorobenzene	98.3	%REC			86-115	10/5/2011 4:13:00 AM
Surr: Dibromofluoromethane	112	%REC			80-120	10/5/2011 4:13:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 4:13:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	470	mg/L		1.0	1	10/1/2011 12:14:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-22A
Client Sample ID:	MW-16A DUPLICATE	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:51:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	ND	mg/L		0.00100	0.0100	10/6/2011 7:27:33 PM
Lead	ND	mg/L		0.00020	0.0100	10/6/2011 7:27:33 PM
Nickel	ND	mg/L		0.00200	0.0500	10/6/2011 7:27:33 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/4/2011 5:40:00 PM
Acrylonitrile	ND	µg/L		4.24	200	10/4/2011 5:40:00 PM
Benzene	0.3	µg/L	J	0.13	1.0	10/4/2011 5:40:00 PM
Bromochloromethane	ND	µg/L		0.35	3.0	10/4/2011 5:40:00 PM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/4/2011 5:40:00 PM
Bromoform	ND	µg/L		0.40	3.0	10/4/2011 5:40:00 PM
Bromomethane	ND	µg/L		0.50	10	10/4/2011 5:40:00 PM
2-Butanone	ND	µg/L		4.68	100	10/4/2011 5:40:00 PM
Carbon disulfide	ND	µg/L		1.27	100	10/4/2011 5:40:00 PM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/4/2011 5:40:00 PM
Chlorobenzene	ND	µg/L		0.18	3.0	10/4/2011 5:40:00 PM
Chloroethane	ND	µg/L		0.94	10	10/4/2011 5:40:00 PM
Chloroform	ND	µg/L		0.25	5.0	10/4/2011 5:40:00 PM
Chloromethane	ND	µg/L		0.33	1.0	10/4/2011 5:40:00 PM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/4/2011 5:40:00 PM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/4/2011 5:40:00 PM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/4/2011 5:40:00 PM
Dibromomethane	ND	µg/L		0.29	10	10/4/2011 5:40:00 PM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/4/2011 5:40:00 PM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/4/2011 5:40:00 PM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/4/2011 5:40:00 PM
1,1-Dichloroethane	40.0	µg/L		3.83	10	10/6/2011 4:04:00 PM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/4/2011 5:40:00 PM
1,1-Dichloroethene	2.3	µg/L	J	0.33	5.0	10/4/2011 5:40:00 PM
cis-1,2-Dichloroethene	42.6	µg/L		2.26	10	10/6/2011 4:04:00 PM
trans-1,2-Dichloroethene	0.6	µg/L	J	0.39	5.0	10/4/2011 5:40:00 PM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/4/2011 5:40:00 PM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/4/2011 5:40:00 PM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/4/2011 5:40:00 PM
Ethylbenzene	ND	µg/L		0.18	1.0	10/4/2011 5:40:00 PM
2-Hexanone	ND	µg/L		4.11	50.0	10/4/2011 5:40:00 PM
Iodomethane	ND	µg/L		3.44	10	10/4/2011 5:40:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-22A
Client Sample ID:	MW-16A DUPLICATE	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/27/2011 11:51:00 AM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/4/2011 5:40:00 PM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/4/2011 5:40:00 PM
Styrene	ND	µg/L		0.24	1.0	10/4/2011 5:40:00 PM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/4/2011 5:40:00 PM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/4/2011 5:40:00 PM
Tetrachloroethene	1.3	µg/L		0.20	1.0	10/4/2011 5:40:00 PM
Toluene	ND	µg/L		0.17	1.0	10/4/2011 5:40:00 PM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/4/2011 5:40:00 PM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/4/2011 5:40:00 PM
Trichloroethene	15.6	µg/L		0.30	1.0	10/4/2011 5:40:00 PM
Trichlorofluoromethane	11.6	µg/L		0.30	1.0	10/4/2011 5:40:00 PM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/4/2011 5:40:00 PM
Vinyl acetate	ND	µg/L		4.87	50.0	10/4/2011 5:40:00 PM
Vinyl chloride	3.3	µg/L		0.22	1.0	10/4/2011 5:40:00 PM
o-Xylene	ND	µg/L		0.19	1.0	10/4/2011 5:40:00 PM
m,p-Xylene	ND	µg/L		0.29	2.0	10/4/2011 5:40:00 PM
Surr: 1,2-Dichloroethane-d4	98.3	%REC			80-120	10/4/2011 5:40:00 PM
Surr: 4-Bromofluorobenzene	99.3	%REC			86-115	10/4/2011 5:40:00 PM
Surr: Dibromofluoromethane	111	%REC			80-120	10/4/2011 5:40:00 PM
Surr: Toluene-d8	101	%REC			88-110	10/4/2011 5:40:00 PM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	4	mg/L		1.0	1	10/1/2011 12:14:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-23A
Client Sample ID:	MW-7A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 2:49:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0037	mg/L	J	0.00100	0.0100	10/6/2011 7:45:10 PM
Lead	0.0004	mg/L	J	0.00020	0.0100	10/6/2011 7:45:10 PM
Nickel	0.0030	mg/L	J	0.00200	0.0500	10/6/2011 7:45:10 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 5:19:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 5:19:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 5:19:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 5:19:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 5:19:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 5:19:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 5:19:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 5:19:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 5:19:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 5:19:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 5:19:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 5:19:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 5:19:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 5:19:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 5:19:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 5:19:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 5:19:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 5:19:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 5:19:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 5:19:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 5:19:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 5:19:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 5:19:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 5:19:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 5:19:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 5:19:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 5:19:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:19:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:19:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 5:19:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 5:19:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 5:19:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-23A
Client Sample ID:	MW-7A	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 2:49:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 5:19:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 5:19:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 5:19:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 5:19:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 5:19:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 5:19:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 5:19:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 5:19:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 5:19:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 5:19:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 5:19:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 5:19:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 5:19:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 5:19:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 5:19:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 5:19:00 AM
Surr: 1,2-Dichloroethane-d4	104	%REC			80-120	10/5/2011 5:19:00 AM
Surr: 4-Bromofluorobenzene	98.4	%REC			86-115	10/5/2011 5:19:00 AM
Surr: Dibromofluoromethane	112	%REC			80-120	10/5/2011 5:19:00 AM
Surr: Toluene-d8	101	%REC			88-110	10/5/2011 5:19:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	22	mg/L		1.0	1	10/1/2011 12:14:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-24A
Client Sample ID:	MW-18	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 3:38:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **BM**
Chromium	0.0020	mg/L	J	0.00100	0.0100	10/6/2011 7:51:03 PM
Lead	ND	mg/L		0.00020	0.0100	10/6/2011 7:51:03 PM
Nickel	ND	mg/L		0.00200	0.0500	10/6/2011 7:51:03 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 5:52:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 5:52:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 5:52:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 5:52:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 5:52:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 5:52:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 5:52:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 5:52:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 5:52:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 5:52:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 5:52:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 5:52:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 5:52:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 5:52:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 5:52:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 5:52:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 5:52:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 5:52:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 5:52:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 5:52:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 5:52:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 5:52:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 5:52:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 5:52:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 5:52:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 5:52:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 5:52:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:52:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 5:52:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 5:52:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 5:52:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 5:52:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-24A
Client Sample ID:	MW-18	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 3:38:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 5:52:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 5:52:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 5:52:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 5:52:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 5:52:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 5:52:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 5:52:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 5:52:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 5:52:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 5:52:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 5:52:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 5:52:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 5:52:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 5:52:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 5:52:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 5:52:00 AM
Surr: 1,2-Dichloroethane-d4	104	%REC			80-120	10/5/2011 5:52:00 AM
Surr: 4-Bromofluorobenzene	98.8	%REC			86-115	10/5/2011 5:52:00 AM
Surr: Dibromofluoromethane	110	%REC			80-120	10/5/2011 5:52:00 AM
Surr: Toluene-d8	103	%REC			88-110	10/5/2011 5:52:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	ND	mg/L		1.0	1	10/1/2011 12:14:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-25A
Client Sample ID:	MW-18 DUPLICATE	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 3:38:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
TOTAL METALS BY ICP-MS			**SW6020A**			Analyst: **JD**
Chromium	0.0021	mg/L	J	0.00100	0.0100	10/10/2011 5:11:03 PM
Lead	ND	mg/L		0.00020	0.0100	10/10/2011 5:11:03 PM
Nickel	ND	mg/L		0.00200	0.0500	10/10/2011 5:11:03 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/4/2011 4:56:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/4/2011 4:56:00 AM
Benzene	ND	µg/L		0.13	1.0	10/4/2011 4:56:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/4/2011 4:56:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/4/2011 4:56:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/4/2011 4:56:00 AM
Bromomethane	ND	µg/L		0.50	10	10/4/2011 4:56:00 AM
2-Butanone	ND	µg/L		4.68	100	10/4/2011 4:56:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/4/2011 4:56:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/4/2011 4:56:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/4/2011 4:56:00 AM
Chloroethane	ND	µg/L		0.94	10	10/4/2011 4:56:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/4/2011 4:56:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/4/2011 4:56:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/4/2011 4:56:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/4/2011 4:56:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/4/2011 4:56:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/4/2011 4:56:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/4/2011 4:56:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/4/2011 4:56:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/4/2011 4:56:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/4/2011 4:56:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/4/2011 4:56:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/4/2011 4:56:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/4/2011 4:56:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/4/2011 4:56:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/4/2011 4:56:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/4/2011 4:56:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/4/2011 4:56:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/4/2011 4:56:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/4/2011 4:56:00 AM
Iodomethane	ND	µg/L		3.44	10	10/4/2011 4:56:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-25A
Client Sample ID:	MW-18 DUPLICATE	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011 3:38:00 PM		
Site ID:	CATAWBA CO NC	**Matrix:**	GROUNDWATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Methylene chloride	ND	µg/L		0.54	1.0	10/4/2011 4:56:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/4/2011 4:56:00 AM
Styrene	ND	µg/L		0.24	1.0	10/4/2011 4:56:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/4/2011 4:56:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/4/2011 4:56:00 AM
Tetrachloroethene	ND	µg/L		0.20	1.0	10/4/2011 4:56:00 AM
Toluene	ND	µg/L		0.17	1.0	10/4/2011 4:56:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/4/2011 4:56:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/4/2011 4:56:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/4/2011 4:56:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/4/2011 4:56:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/4/2011 4:56:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/4/2011 4:56:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/4/2011 4:56:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/4/2011 4:56:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/4/2011 4:56:00 AM
Surr: 1,2-Dichloroethane-d4	102	%REC			80-120	10/4/2011 4:56:00 AM
Surr: 4-Bromofluorobenzene	98.8	%REC			86-115	10/4/2011 4:56:00 AM
Surr: Dibromofluoromethane	110	%REC			80-120	10/4/2011 4:56:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/4/2011 4:56:00 AM
TOTAL SUSPENDED SOLIDS			**SM2540 D**			Analyst: **SF**
Total Suspended Solids	2	mg/L		1.0	1	10/1/2011 12:14:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-26A
Client Sample ID:	TRIP BLANK	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011		
Site ID:	CATAWBA CO NC	**Matrix:**	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Acetone	ND	µg/L		4.88	100	10/5/2011 6:25:00 AM
Acrylonitrile	ND	µg/L		4.24	200	10/5/2011 6:25:00 AM
Benzene	ND	µg/L		0.13	1.0	10/5/2011 6:25:00 AM
Bromochloromethane	ND	µg/L		0.35	3.0	10/5/2011 6:25:00 AM
Bromodichloromethane	ND	µg/L		0.16	1.0	10/5/2011 6:25:00 AM
Bromoform	ND	µg/L		0.40	3.0	10/5/2011 6:25:00 AM
Bromomethane	ND	µg/L		0.50	10	10/5/2011 6:25:00 AM
2-Butanone	ND	µg/L		4.68	100	10/5/2011 6:25:00 AM
Carbon disulfide	ND	µg/L		1.27	100	10/5/2011 6:25:00 AM
Carbon tetrachloride	ND	µg/L		0.25	1.0	10/5/2011 6:25:00 AM
Chlorobenzene	ND	µg/L		0.18	3.0	10/5/2011 6:25:00 AM
Chloroethane	ND	µg/L		0.94	10	10/5/2011 6:25:00 AM
Chloroform	ND	µg/L		0.25	5.0	10/5/2011 6:25:00 AM
Chloromethane	ND	µg/L		0.33	1.0	10/5/2011 6:25:00 AM
Dibromochloromethane	ND	µg/L		0.42	3.0	10/5/2011 6:25:00 AM
1,2-Dibromo-3-chloropropane	ND	µg/L		0.50	13.0	10/5/2011 6:25:00 AM
1,2-Dibromoethane	ND	µg/L		0.34	1.0	10/5/2011 6:25:00 AM
Dibromomethane	ND	µg/L		0.29	10	10/5/2011 6:25:00 AM
1,2-Dichlorobenzene	ND	µg/L		0.45	5.0	10/5/2011 6:25:00 AM
1,4-Dichlorobenzene	ND	µg/L		0.29	1.0	10/5/2011 6:25:00 AM
trans-1,4-Dichloro-2-butene	ND	µg/L		2.81	100	10/5/2011 6:25:00 AM
1,1-Dichloroethane	ND	µg/L		0.38	5.0	10/5/2011 6:25:00 AM
1,2-Dichloroethane	ND	µg/L		0.43	1.0	10/5/2011 6:25:00 AM
1,1-Dichloroethene	ND	µg/L		0.33	5.0	10/5/2011 6:25:00 AM
cis-1,2-Dichloroethene	ND	µg/L		0.23	5.0	10/5/2011 6:25:00 AM
trans-1,2-Dichloroethene	ND	µg/L		0.39	5.0	10/5/2011 6:25:00 AM
1,2-Dichloropropane	ND	µg/L		0.46	1.0	10/5/2011 6:25:00 AM
cis-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 6:25:00 AM
trans-1,3-Dichloropropene	ND	µg/L		0.22	1.0	10/5/2011 6:25:00 AM
Ethylbenzene	ND	µg/L		0.18	1.0	10/5/2011 6:25:00 AM
2-Hexanone	ND	µg/L		4.11	50.0	10/5/2011 6:25:00 AM
Iodomethane	ND	µg/L		3.44	10	10/5/2011 6:25:00 AM
Methylene chloride	ND	µg/L		0.54	1.0	10/5/2011 6:25:00 AM
4-Methyl-2-pentanone	ND	µg/L		4.40	100	10/5/2011 6:25:00 AM
Styrene	ND	µg/L		0.24	1.0	10/5/2011 6:25:00 AM
1,1,1,2-Tetrachloroethane	ND	µg/L		0.36	5.0	10/5/2011 6:25:00 AM
1,1,2,2-Tetrachloroethane	ND	µg/L		0.38	3.0	10/5/2011 6:25:00 AM

Key:			
MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

REI Consultants, Inc. Analytical Results

Date: *14-Oct-11*

CLIENT:	COUNTY OF CATAWBA	**WorkOrder:**	1109S44	**Lab ID**	1109S44-26A
Client Sample ID:	TRIP BLANK	**DateReceived:**	9/30/2011		
Project:	NEWTON	**Collection Date:**	9/26/2011		
Site ID:	CATAWBA CO NC	**Matrix:**	TRIP BLANK		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260B**			Analyst: **AS**
Tetrachloroethene	ND	µg/L		0.20	1.0	10/5/2011 6:25:00 AM
Toluene	ND	µg/L		0.17	1.0	10/5/2011 6:25:00 AM
1,1,1-Trichloroethane	ND	µg/L		0.35	1.0	10/5/2011 6:25:00 AM
1,1,2-Trichloroethane	ND	µg/L		0.49	1.0	10/5/2011 6:25:00 AM
Trichloroethene	ND	µg/L		0.30	1.0	10/5/2011 6:25:00 AM
Trichlorofluoromethane	ND	µg/L		0.30	1.0	10/5/2011 6:25:00 AM
1,2,3-Trichloropropane	ND	µg/L		0.36	1.0	10/5/2011 6:25:00 AM
Vinyl acetate	ND	µg/L		4.87	50.0	10/5/2011 6:25:00 AM
Vinyl chloride	ND	µg/L		0.22	1.0	10/5/2011 6:25:00 AM
o-Xylene	ND	µg/L		0.19	1.0	10/5/2011 6:25:00 AM
m,p-Xylene	ND	µg/L		0.29	2.0	10/5/2011 6:25:00 AM
Surr: 1,2-Dichloroethane-d4	103	%REC			80-120	10/5/2011 6:25:00 AM
Surr: 4-Bromofluorobenzene	98.5	%REC			86-115	10/5/2011 6:25:00 AM
Surr: Dibromofluoromethane	112	%REC			80-120	10/5/2011 6:25:00 AM
Surr: Toluene-d8	102	%REC			88-110	10/5/2011 6:25:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery exceeds REIC control limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds MCL or Regulatory Limits

CHAIN OF CUSTODY RECORD

v5-1109 REIC use ONLY CLIENT ID _____ DATE _____ SHEET 1 OF 3

REIC
Research Environmental & Industrial Consultants, Inc.
MAIN LABORATORY & CORPORATE HEADQUARTERS:
P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

MID-OHIO VALLEY Service Center
209 15th Street
Ashland, KY 41101
606-393-5027

SHENANDOAH Service Center
1557 Commerce Rd., Ste. 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

Client: CATAWBA CO N.C
PO #
Contact Person: RODNEY HAMBY
Phone: 704-462-1348
Address: PO BOX 389
City: NEWTON State: NC Zip: 28658
Billing Address (if different)
City: NEWTON State: NC Zip: 28658
Site ID & State: CATAWBA CO N.C
Project ID: NEWTON
Sampler: R.Farley/ A.Mcbride/B.Shirley

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: (•) NORMAL
RUSH TURNAROUND: ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY
*flush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: NC APPENDIX 1 VOL; CR,PB,NI

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1	2							
MW-1	6	9-26-11 1405	GWater	Grab	✓	✓							
MW-3	6	9-27-11 0809	GWater	Grab	✓	✓							
MW-9	6	9-26-11 1230	GWater	Grab	✓	✓							
MW-10A	6	9-26-11 1340	GWater	Grab	✓	✓							
MW-10B	6	9-26-11 1313	GWater	Grab	✓	✓							
MW-11	6	9-26-11 1302	GWater	Grab	✓	✓							
MW-13	6	9-27-11 1107	GWater	Grab	✓	✓							
MW-14	6	9-27-11 1325	GWater	Grab	✓	✓							
MW-14A	6	9-27-11 1311	GWater	Grab	✓	✓							

ENTER PRESERVATIVE CODE:
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

COMMENTS:
ANALYZE TSS & DIS MEATALS ON ANY TOTAL METAL DETECTIONS

All analytical requests are subject to REIC's Standard Terms and Conditions.

Temperature at arrival: 1.5°C ICED? Y X N__

1 Allen McBride Relinquished by (signature)	9-30-11 0625 Date/Time	2 Relinquished by (signature)	Date/Time	3 Relinquished by (signature)	Date/Time
Received by (signature)	9-30-11 Date/Time	Received by (signature)	Date/Time	Received by (signature)	Date/Time

CHAIN OF CUSTODY RECORD

v5-1109 REIC use ONLY CLIENT ID _____ DATE _____ SHEET 2 OF 3

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1557 Commerce Rd., Ste. 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

Client: CATAWBA CO N.C PO # _____
Contact Person: RODNEY HAMBY Phone: 704-462-1348
Address: PO BOX 389 City: NEWTON State: NC Zip: 28658
Billing Address (if different) _____
City: NEWTON State: NC Zip: 28658
Site ID & State: CATAWBA CO N.C Project ID: NEWTON Sampler: R.Farley/ A.Mcbride/B.Shirley

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: (•) NORMAL
RUSH TURNAROUND: ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: NC APPENDIX 1 VOL; CR,PB,NI

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1	2							
MW-15	6	9-27-11 0859	GWater	Grab	✓	✓							
MW-16	6	9-27-11 1213	GWater	Grab	✓	✓							
MW-16A	6	9-27-11 1151	GWater	Grab	✓	✓							
MW-20	6	9-27-11 0906	GWater	Grab	✓	✓							
MW-21	6	9-26-11 1714	GWater	Grab	✓	✓							
MW-23	6	9-27-11 0735	GWater	Grab	✓	✓							
MW-24	6	9-27-11 1013	GWater	Grab	✓	✓							
MW-24D	6	9-27-11 1018	GWater	Grab	✓	✓							
OW-1	6	9-27-11 0841	GWater	Grab	✓	✓							

ENTER PRESERVATIVE CODE:
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

COMMENTS:
ANALYZE TSS & DIS MEATALS ON ANY TOTAL METAL DETECTIONS

All analytical requests are subject to REIC's Standard Terms and Conditions.

Temperature at arrival: 1.5 °C ICED? Y X N___

1 Allen McBride (Relinquished by (signature))	9-30-11 0625 (Date/Time)	2 Relinquished by (signature)	Date/Time	3 Relinquished by (signature)	Date/Time
Received by (signature)	9-30-11 (Date/Time)	Received by (signature)	Date/Time	Received by (signature)	Date/Time

CHAIN OF CUSTODY RECORD

v5-1109 REIC use ONLY CLIENT ID _____ DATE _____ SHEET 3OF 3

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Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

Client: CATAWBA CO N.C PO # _____
Contact Person RODNEY HAMBY Phone 704-462-1348
Address PO BOX 389 City NEWTON State NC Zip 28658
Billing Address (if different) _____
City NEWTON State NC Zip 28658
Site ID & State CATAWBA CO N.C Project ID NEWTON Sampler R.Farley/ A.Mcbride/B.Shirley

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: (•) NORMAL ( ) RUSH TURNAROUND: ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY

*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: NC APPENDIX 1 VOL; CR,PB,NI

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1	2							
OW-3	6	DRY	GWater	Grab	✓	✓							
CR-1	6	9-27-11 1140	GWater	Grab	✓	✓							
SW-2	6	9-27-11 1129	GWater	Grab	✓	✓							
MW- 23 DUPLICATE	18	9-27-11 0735	GWater	Grab	✓	✓							
MW- 16A DUPLICATE	18	9-27-11 1151	GWater	Grab	✓	✓							
TRIP BLANK # 4	1 VOA		Choose	Choose	✓								
MW- 7A	6	9-26-11 1449	Choose	Choose									
MW-18	6	9-26-11 1538	Choose	Choose									
MW-18 Duplicate	18	9-26-11 1538	Choose	Choose									

ENTER PRESERVATIVE CODE:
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

COMMENTS:
ANALYZE TSS & DIS MEATALS ON ANY TOTAL METAL DETECTIONS

All analytical requests are subject to REIC's Standard Terms and Conditions.

Temperature at arrival: -1 °C ICED? Y X N___

	Relinquished by (signature)	Date/Time	Received by (signature)	Date/Time
1	Allen McBride	9-30-11 0625	9-30-11 0625	
2				
3				

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix C:

Sampling / Field Log Summaries and Field Sample Logs

SAMPLING LOG SUMMARY

Newton Landfill (Permit: #18-01)

REIC Job #: 1109S44

Sampling Date: 9/26/2011 & 9/27/2011

Sampler(s): Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Cloudy 68 - 80°F

Property	**Units**	**MW-1**	**MW-3**	**MW-7A**	**MW-9**
Sampling Depth	**Feet**	18.62	31.80	58.91	36.09
Static Depth	**Feet**	13.85	29.90	15.77	36.09
Well Depth	**Feet**	29.60	40.40	78.38	45.63
Water Column Height	**Feet**	15.75	10.50	62.61	9.58
Volume Purged	**Liters**	28	10	110	0
Purging Status	**-**	Finished Purging	Purged Dry	Finished Purging	Sampled Only
Physical Property	**Units**	**MW-1**	**MW-3**	**MW-7A**	**MW-9**
pH	**SU**	6.45	5.73	6.30	5.58
Temperature	**°C**	17.4	18.8	16.7	18.7
Conductivity	**umhos/cm**	3180	175	79	1393
Turbidity	**NTU**	25.0	41.3	29.2	364
Appearance	**-**	Cloudy	Cloudy	Cloudy	Cloudy
Odor	**-**	Strong Odor	No Odor	No Odor	Slight Odor
Total Suspended Solids (TSS)	**mg/L**	144	30	22	54

Property	**Units**	**MW-10A**	**MW-10B**	**MW-11**	**MW-13**
Sampling Depth	**Feet**	32.20	33.02	20.45	19.50
Static Depth	**Feet**	35.54	33.02	16.92	17.90
Well Depth	**Feet**	49.02	87.78	36.12	78.70
Water Column Height	**Feet**	13.48	54.76	19.20	60.80
Volume Purged	**Liters**	25	0	35	100
Purging Status	**-**	Finished Purging	Sampled Only	Finished Purging	Finished Purging
Physical Property	**Units**	**MW-10A**	**MW-10B**	**MW-11**	**MW-13**
pH	**SU**	6.55	7.57	6.34	6.70
Temperature	**°C**	18.0	18.5	16.7	16.9
Conductivity	**umhos/cm**	1435	186	120	185
Turbidity	**NTU**	199	12.5	67.9	4.50
Appearance	**-**	Cloudy	Clear	Cloudy	Clear
Odor	**-**	No Odor	Slight Odor	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	249	**8**	54	8

SAMPLING LOG SUMMARY

Newton Landfill (Permit: #18-01)

REIC Job #: 1109S44

Sampling Date: 9/26/2011 & 9/27/2011

Sampler(s): Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Cloudy 68 - 80°F

Property	**Units**	**MW-14**	**MW-14A**	**MW-15**	**MW-16**
Sampling Depth	**Feet**	31.42	34.35	27.61	12.15
Static Depth	**Feet**	29.51	30.75	22.99	8.14
Well Depth	**Feet**	34.45	85.56	33.78	20.40
Water Column Height	**Feet**	4.94	54.81	10.79	12.26
Volume Purged	**Liters**	9	100	20	22
Purging Status	**-**	Finished Purging	Finished Purging	Finished Purging	Finished Purging
Physical Property	**Units**	**MW-14**	**MW-14A**	**MW-15**	**MW-16**
pH	**SU**	6.22	6.20	4.61	6.15
Temperature	**°C**	18.1	18.2	16.9	16.6
Conductivity	**umhos/cm**	683	59	42	432
Turbidity	**NTU**	27.1	20.7	109	58.0
Appearance	**-**	Cloudy	Clear	Cloudy	Clear
Odor	**-**	Slight Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	62	27	112	86

Property	**Units**	**MW-16A**	**MW-18**	**MW-20**	**MW-21**
Sampling Depth	**Feet**	60.40	18.00	32.35	20.14
Static Depth	**Feet**	5.19	16.20	32.38	20.14
Well Depth	**Feet**	81.70	83.31	84.80	69.80
Water Column Height	**Feet**	76.51	67.11	52.42	49.66
Volume Purged	**Liters**	133	117	32	0
Purging Status	**-**	Finished Purging	Finished Purging	Purged Dry	Sampled Only
Physical Property	**Units**	**MW-16A**	**MW-18**	**MW-20**	**MW-21**
pH	**SU**	7.43 / Dup 7.39	6.72 / Dup 6.71	5.30	10.23
Temperature	**°C**	17.3 / Dup 17.3	17.5 / Dup 17.3	17.7	18.8
Conductivity	**umhos/cm**	269 / Dup 270	66.2 / Dup 66.1	139	89
Turbidity	**NTU**	2.89 / Dup 3.02	1.72 / Dup 2.06	8.13	1.44
Appearance	**-**	Clear	Clear	Clear	Clear
Odor	**-**	No Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	**3**	**-**	**1**	**3**

SAMPLING LOG SUMMARY

Newton Landfill (Permit: #18-01)

REIC Job #: 1109S44

Sampling Date: 9/26/2011 & 9/27/2011

Sampler(s): Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Cloudy 68 - 80°F

Property	**Units**	**MW-23**	**MW-24**	**MW-24D**	**OW-1**
Sampling Depth	**Feet**	25.36	28.11	67.60	30.85
Static Depth	**Feet**	22.49	24.48	26.88	29.72
Well Depth	**Feet**	34.11	36.60	86.32	36.46
Water Column Height	**Feet**	11.62	12.12	59.44	6.74
Volume Purged	**Liters**	20	22	60	8
Purging Status	**-**	Finished Purging	Finished Purging	Purged Dry	Purged Dry
Physical Property	**Units**	**MW-23**	**MW-24**	**MW-24D**	**OW-1**
pH	**SU**	4.68 / Dup 4.65	5.17	6.15	5.12
Temperature	**°C**	18.7 / Dup 18.7	16.9	16.9	17.6
Conductivity	**umhos/cm**	20.7 / Dup 20.7	41	45	128
Turbidity	**NTU**	665 / Dup 667	>800	107	77.6
Appearance	**-**	Red	Red	Cloudy	Cloudy
Odor	**-**	No Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	**522**	**802**	**78**	**28**

Property	**Units**	**OW-3**	**CR-1**	**SW-2**
Sampling Depth	**Feet**	N/A	-	-
Static Depth	**Feet**	N/A	-	-
Well Depth	**Feet**	N/A	-	-
Water Column Height	**Feet**	N/A	-	-
Volume Purged	**Liters**	N/A	-	-
Purging Status	**-**	No Sample -Dry	-	-
Physical Property	**Units**	**OW-3**	**CR-1**	**SW-2**
pH	**SU**	No Sample	7.23	7.50
Temperature	**°C**	No Sample	19.6	19.7
Conductivity	**umhos/cm**	No Sample	187.7	249.0
Turbidity	**NTU**	No Sample	1.71	3.68
Appearance	**-**	No Sample	Clear	Clear
Odor	**-**	No Sample	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	**-**	**3**	**1**

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-1

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 13:46 | Weather Conditions: Cloudy 82 °F

Static Depth (Depth to Water)	13.85	(Ft)	Volume	9.11 (Liters)
Well Depth	29.60	(Ft)	3 Volumes	27.35 (Liters)
Water Column Height	15.75	(Ft)	Volume Purged	28.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
13:48	6.65	2,330.0	19.0	15.1	1
13:50	6.61	2,510.0	17.0	66.0	6
13:52	6.54	2,730.0	16.7	39.5	12
13:54	6.57	2,730.0	16.9	56.7	18
13:56	6.56	2,810.0	16.7	52.1	24
13:58		Finished Purging			28

SAMPLING DATA

Date: 9/26/2011 | Time: 14:05

Method: Teflon Bailer | Sampling Depth: 18.62'

pH: 6.45 ***(SU)*** | Conductivity: 3180 ***(umhos/cm)***

Temperature: 17.4 ***(^{o} C)*** | Turbidity: 25 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: Strong Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-3

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 07:47 | Weather Conditions: Cloudy 68 °F

Static Depth (Depth to Water)	29.90	(Ft)	Volume	6.07 (Liters)
Well Depth	40.40	(Ft)	3 Volumes	18.23 (Liters)
Water Column Height	10.50	(Ft)	Volume Purged	10.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
07:51	5.54	133.8	17.8	11.9	1
07:52	5.61	147.6	17.3	27.4	4
07:55	5.68	174.9	17.1	109.0	8
07:56		Purged Dry			10

SAMPLING DATA

Date: 9/27/2011 | Time: 08:09

Method: Teflon Bailer | Sampling Depth: 31.80'

pH: 5.73 ***(SU)*** | Conductivity: 175.1 ***(umhos/cm)***

Temperature: 18.8 ***(^{o} C)*** | Turbidity: 41.3 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-7A

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 14:17 | Weather Conditions: Cloudy 83 °F

Static Depth (Depth to Water)	15.77	(Ft)	Volume	36.25	(Liters)
Well Depth	78.38	(Ft)	3 Volumes	108.75	(Liters)
Water Column Height	62.61	(Ft)	Volume Purged	110.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
14:21	6.91	79.5	16.7	19.2	1
14:25	6.87	74.1	16.3	9.7	20
14:29	7.02	182.8	16.3	15.1	40
14:33	7.20	184.8	17.3	18.6	60
14:37	6.71	99.3	16.6	21.2	80
14:42	6.44	80.9	16.2	17.7	100
14:44		Finished Purging			110

SAMPLING DATA

Date: 9/26/2011 | Time: 14:49

Method: Teflon Bailer | Sampling Depth: 58.91'

pH: 6.30 ***(SU)*** | Conductivity: 79 ***(umhos/cm)***

Temperature: 16.7 ***(^{o} C)*** | Turbidity: 29.2 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-9

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 12:20 | Weather Conditions: Cloudy 77 °F

Static Depth (Depth to Water)	36.09	(Ft)	Volume	5.54	(Liters)
Well Depth	45.63	(Ft)	3 Volumes	16.64	(Liters)
Water Column Height	9.58	(Ft)	Volume Purged	0.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
		Sampled Only			

SAMPLING DATA

Date: 9/26/2011 | Time: 12:30

Method: Teflon Bailer | Sampling Depth: 36.09'

pH: 5.58 ***(SU)*** | Conductivity: 1393 ***(umhos/cm)***

Temperature: 18.7 ***(^{o} C)*** | Turbidity: 364 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: Slight Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-10A

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 13:23 | Weather Conditions: Cloudy 80 °F

Static Depth (Depth to Water)	35.54	(Ft)	Volume	7.80	(Liters)
Well Depth	49.02	(Ft)	3 Volumes	23.41	(Liters)
Water Column Height	13.48	(Ft)	Volume Purged	25.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
13:26	6.55	1,403.0	18.2	6.47	1
13:29	6.57	1,413.0	17.7	39.2	5
13:30	6.57	1,430.0	17.5	36.2	10
13:32	6.54	1,451.0	17.4	104.0	15
13:34	6.56	1,445.0	17.5	208.0	20
13:36	6.54	1,444.0	17.6	272.0	25
13:36		Finished Purging			25

SAMPLING DATA

Date: 9/26/2011 | Time: 13:40

Method: Teflon Bailer | Sampling Depth: 32.20'

pH: 6.55 ***(SU)*** | Conductivity: 1435 ***(umhos/cm)***

Temperature: 18.0 ***(^{o} C)*** | Turbidity: 199 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-10B

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 13:10 | Weather Conditions: Cloudy 80 °F

Static Depth (Depth to Water)	33.02	(Ft)	Volume	4.73	(Liters)
Well Depth	87.78	(Ft)	3 Volumes	14.19	(Liters)
Water Column Height	54.76	(Ft)	Volume Purged	0.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
		Sampled Only			

SAMPLING DATA

Date: 9/26/2011 | Time: 13:13

Method: Teflon Bailer | Sampling Depth: 33.02'

pH: 7.57 ***(SU)*** | Conductivity: 186.2 ***(umhos/cm)***

Temperature: 18.5 ***(^{o} C)*** | Turbidity: 12.5 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: Slight Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-11

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 12:45 | Weather Conditions: Cloudy 77 °F

Static Depth (Depth to Water)	16.92	(Ft)	Volume	11.11 (Liters)
Well Depth	36.12	(Ft)	3 Volumes	33.35 (Liters)
Water Column Height	19.20	(Ft)	Volume Purged	35.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
12:47	6.38	129.4	18.4	31.5	1
12:49	6.50	123.5	16.4	45.7	7
12:52	6.46	123.5	16.1	44.8	14
12:54	6.41	122.8	16.0	91.7	21
12:56	6.38	120.9	16.0	89.1	28
12:58	6.37	119.8	16.1	94.5	35
12:58		Finished Purging			35

SAMPLING DATA

Date: 9/26/2011 | Time: 13:02

Method: Teflon Bailer | Sampling Depth: 20.45'

pH: 6.34 ***(SU)*** | Conductivity: 119.8 ***(umhos/cm)***

Temperature: 16.7 ***(^{o} C)*** | Turbidity: 67.9 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-13

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 10:30 | Weather Conditions: Cloudy 75 °F

Static Depth (Depth to Water)	17.90	(Ft)	Volume	35.20	(Liters)
Well Depth	78.70	(Ft)	3 Volumes	105.60	(Liters)
Water Column Height	60.80	(Ft)	Volume Purged	100.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
10:35	6.64	189.7	18.1	3.54	1
10:41	6.87	187.5	16.9	20.40	20
10:47	6.78	187.0	16.8	19.75	40
10:52	6.72	185.6	16.5	8.35	60
10:58	6.71	185.7	16.6	9.16	80
11:04	6.72		16.9	6.28	100
11:04		Finished Purging			100

SAMPLING DATA

Date: 9/27/2011 | Time: 11:07

Method: Teflon Bailer | Sampling Depth: 19.50'

pH: 6.70 ***(SU)*** | Conductivity: 184.9 ***(umhos/cm)***

Temperature: 16.9 ***(^{o} C)*** | Turbidity: 4.5 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-14

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 12:32 | Weather Conditions: Cloudy 78 °F

Static Depth (Depth to Water)	29.51	(Ft)	Volume	2.86	(Liters)
Well Depth	34.45	(Ft)	3 Volumes	8.58	(Liters)
Water Column Height	4.94	(Ft)	Volume Purged	9.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
13:17	6.07	624.0	19.3	5.93	1
13:18	6.21	678.0	17.8	90.0	3
13:19	6.24	692.0	17.4	102.0	5
13:20	6.23	689.0	17.5	47.2	7
13:21	6.25	690.0	17.7	43.4	9
13:21		Finished Purging			9

SAMPLING DATA

Date: 9/27/2011 | Time: 13:25

Method: Teflon Bailer | Sampling Depth: 31.42'

pH: 6.22 ***(SU)*** | Conductivity: 683 ***(umhos/cm)***

Temperature: 18.1 ***(^{o} C)*** | Turbidity: 27.1 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: Slight Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-14A

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 12:28 | Weather Conditions: Cloudy 78 °F

Static Depth (Depth to Water)	30.75	(Ft)	Volume	31.73	(Liters)
Well Depth	85.56	(Ft)	3 Volumes	95.20	(Liters)
Water Column Height	54.81	(Ft)	Volume Purged	100.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
12:34	6.48	58.2	18.6	1.01	1
12:40	6.27	56.4	17.2	6.78	20
12:46	6.24	58.2	17.4	39.90	40
12:53	6.22	59.6	17.7	45.60	60
12:59	6.24	58.8	17.4	33.30	80
13:08	6.25	58.7	17.7	30.90	100
13:08		Finished Purging			100

SAMPLING DATA

Date: 9/27/2011 | Time: 13:11

Method: Teflon Bailer | Sampling Depth: 34.35'

pH: 6.20 ***(SU)*** | Conductivity: 58.6 ***(umhos/cm)***

Temperature: 18.2 ***(^{o} C)*** | Turbidity: 20.7 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-15

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 08:49 | Weather Conditions: Cloudy 69 °F

Static Depth (Depth to Water)	22.99	(Ft)	Volume	6.24 (Liters)
Well Depth	33.78	(Ft)	3 Volumes	18.74 (Liters)
Water Column Height	10.79	(Ft)	Volume Purged	20.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
08:51	4.95	65.9	17.5	2.71	1
08:52	4.59	46.6	16.5	56.8	4
08:53	4.63	39.4	16.4	73.8	8
08:54	4.64	39.2	16.6	89.5	12
08:55	4.60	40.7	16.5	108.0	16
08:56	4.62	42.0	16.5	115.0	20
08:56		Finished Purging			20

SAMPLING DATA

Date: 9/27/2011 | Time: 08:59

Method: Teflon Bailer | Sampling Depth: 27.61'

pH: 4.61 ***(SU)*** | Conductivity: 41.6 ***(umhos/cm)***

Temperature: 16.9 ***(^{o} C)*** | Turbidity: 109 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-16

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 12:00 | Weather Conditions: Cloudy 75 °F

Static Depth (Depth to Water)	8.14	(Ft)	Volume	7.09 (Liters)
Well Depth	20.40	(Ft)	3 Volumes	21.29 (Liters)
Water Column Height	12.26	(Ft)	Volume Purged	22.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
12:04	6.35	441.0	19.0	2.71	1
12:06	6.22	449.0	17.3	60.7	4
12:07	6.19	451.0	16.9	56.2	8
12:08	6.19	450.0	16.9	63.3	12
12:09	6.17	449.0	16.7	54.9	16
12:10	6.16	440.0	16.5	67.5	20
12:11		Finished Purging			22

SAMPLING DATA

Date: 9/27/2011 | Time: 12:13

Method: Teflon Bailer | Sampling Depth: 12.15'

pH: 6.15 ***(SU)*** | Conductivity: 432 ***(umhos/cm)***

Temperature: 16.6 ***(^{o} C)*** | Turbidity: 58 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-16A

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 11:14 | Weather Conditions: Cloudy 75 °F

Static Depth (Depth to Water)	5.19	(Ft)	Volume	44.29 (Liters)
Well Depth	81.70	(Ft)	3 Volumes	132.89 (Liters)
Water Column Height	76.51	(Ft)	Volume Purged	133.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
11:18	6.96	257.0	19.6	2.33	1
11:22	7.34	262.0	16.1	3.03	24
11:27	7.46	303.0	15.9	1.42	48
11:32	7.56	301.0	16.4	1.07	72
11:38	7.40	283.0	16.0	2.26	96
11:44	7.35	272.0	16.2	1.17	120
11:48		Finished Purging			133

SAMPLING DATA

Date: 9/27/2011 | Time: 11:51

Method: Teflon Bailer | Sampling Depth: 60.40'

pH: 7.43 / Dup 7.39 ***(SU)*** | Conductivity: 269 / Dup 270 ***(umhos/cm)***

Temperature: 17.3 / Dup 17.3 ***(^{o} C)*** | Turbidity: 2.89 / Dup 3.02 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-18

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 15:00 | Weather Conditions: Cloudy 84 °F

Static Depth (Depth to Water)	16.20	(Ft)	Volume	38.85	(Liters)
Well Depth	83.31	(Ft)	3 Volumes	116.57	(Liters)
Water Column Height	67.11	(Ft)	Volume Purged	117.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
15:03	7.64	60.5	19.1	71.0	1
15:08	8.78	61.9	16.5	34.1	20
15:13	7.75	67.0	16.5	37.0	40
15:19	7.01	66.4	16.8	15.0	60
15:24	6.81	66.2	16.5	12.11	80
15:29	6.74	66.8	16.7	12.0	100
15:33		Finished Purging			117

SAMPLING DATA

Date: 9/26/2011 | Time: 15:38

Method: Teflon Bailer | Sampling Depth: 18.00'

pH: 6.72 / Dup 6.71 ***(SU)*** | Conductivity: 66.2 / Dup 66.1 ***(umhos/cm)***

Temperature: 17.5 / Dup 17.3 ***(^{o} C)*** | Turbidity: 1.72 / Dup 2.06 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-20

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 16:24 | Weather Conditions: Cloudy 80 °F

Static Depth (Depth to Water)	32.38	(Ft)	Volume	30.35 (Liters)
Well Depth	84.80	(Ft)	3 Volumes	91.05 (Liters)
Water Column Height	52.42	(Ft)	Volume Purged	32.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
16:33	5.85	304.0	17.1	0.64	1
16:37	5.87	308.0	18.0	22.2	15
16:45	5.72	272.0	16.8	331.0	30
16:47		Purged Dry			32

SAMPLING DATA

Date: 9/27/2011 | Time: 09:06

Method: Teflon Bailer | Sampling Depth: 32.35'

pH: 5.30 ***(SU)*** | Conductivity: 139.3 ***(umhos/cm)***

Temperature: 17.7 ***(^{o} C)*** | Turbidity: 8.13 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-21

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 17:10 | Weather Conditions: Cloudy 80 °F

Static Depth (Depth to Water)	20.14	(Ft)	Volume	28.75	(Liters)
Well Depth	69.80	(Ft)	3 Volumes	86.25	(Liters)
Water Column Height	49.66	(Ft)	Volume Purged	0.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
		Sampled Only			

SAMPLING DATA

Date: 9/26/2011 | Time: 17:14

Method: Teflon Bailer | Sampling Depth: 20.14'

pH: 10.23 ***(SU)*** | Conductivity: 89.3 ***(umhos/cm)***

Temperature: 18.8 ***(^{o} C)*** | Turbidity: 1.44 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/26/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-23

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/26/2011 07:15 | Weather Conditions: Cloudy 68 °F

Static Depth (Depth to Water)	22.49	(Ft)	Volume	6.72 (Liters)
Well Depth	34.11	(Ft)	3 Volumes	20.18 (Liters)
Water Column Height	11.62	(Ft)	Volume Purged	20.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
07:21	4.66	22.4	18.6	43.0	1
07:22	4.53	22.0	18.1	668.0	4
07:24	4.52	23.3	17.9	752.0	8
07:25	4.56	24.6	17.9	>800	12
07:26	4.55	20.8	17.8	>800	16
07:28	4.59	19.9	17.9	>800	20
07:28		Finished Purging			20

SAMPLING DATA

Date: 9/27/2011 | Time: 07:35

Method: Teflon Bailer | Sampling Depth: 25.36'

pH: 4.68 / Dup 4.65 ***(SU)*** | Conductivity: 20.7 / Dup 20.7 ***(umhos/cm)***

Temperature: 18.7 / Dup 18.7 ***(^{o} C)*** | Turbidity: 665 / Dup 667 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Red | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-24

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked		x	Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 09:30 | Weather Conditions: Cloudy 72 °F

Static Depth (Depth to Water)	24.48	(Ft)	Volume	7.01	(Liters)
Well Depth	36.60	(Ft)	3 Volumes	21.05	(Liters)
Water Column Height	12.12	(Ft)	Volume Purged	22.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
09:56	5.07	48.1	16.5	13.89	1
09:57	4.98	46.1	16.1	>800	4
09:58	5.07	44.4	15.8	>800	8
10:00	5.11	41.2	15.7	>800	12
10:02	5.15	39.8	15.7	>800	16
10:04	5.15	40.1	16.0	>800	20
10:05		Finished Purging			22

SAMPLING DATA

Date: 9/27/2011 | Time: 10:13

Method: Teflon Bailer | Sampling Depth: 28.11'

pH: 5.17 ***(SU)*** | Conductivity: 41.1 ***(umhos/cm)***

Temperature: 16.9 ***(^{o} C)*** | Turbidity: >800 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Red | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: MW-24D

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked		x	Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 09:26 | Weather Conditions: Cloudy 72 °F

Static Depth (Depth to Water)	26.88	(Ft)	Volume	34.41	(Liters)
Well Depth	86.32	(Ft)	3 Volumes	103.24	(Liters)
Water Column Height	59.44	(Ft)	Volume Purged	60.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
09:28	6.34	44.8	16.9	14.75	1
09:32	6.37	43.6	16.2	46.4	16
09:38	6.28	44.5	16.1	230.0	32
09:44	6.29	45.4	16.1	400.0	48
09:53	6.31	45.8	16.9	>800	60
09:53		Purged Dry			60

SAMPLING DATA

Date: 9/27/2011 | Time: 10:18

Method: Teflon Bailer | Sampling Depth: 67.60'

pH: 6.15 ***(SU)*** | Conductivity: 45.3 ***(umhos/cm)***

Temperature: 16.9 ***(^{o} C)*** | Turbidity: 107 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2011 | Well #: OW-1

Contact Person: Rodney Hamby | Phone #: 704-462-1348

WELL CONDITION DATA

	Y	N		Y	N
Protective Casing Present	x		Physical Damage		x
Protective Casing Locked	x		Concrete/Grout Pad Present	x	
Cap on Well Riser	x		2" PVC Casing	x	

Comments:

PURGING DATA

Date/Time: 9/27/2011 08:19 | Weather Conditions: Cloudy 69 °F

Static Depth (Depth to Water)	29.72	(Ft)	Volume	3.90 (Liters)
Well Depth	36.46	(Ft)	3 Volumes	11.70 (Liters)
Water Column Height	6.74	(Ft)	Volume Purged	8.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
08:21	5.16	143.3	17.3	62.7	1
08:22	5.10	143.1	16.8	401.0	3
08:23	5.08	135.5	16.8	703.0	6
08:27		Purged Dry			8

SAMPLING DATA

Date: 9/27/2011 | Time: 08:41

Method: Teflon Bailer | Sampling Depth: 30.85'

pH: 5.12 ***(SU)*** | Conductivity: 128.4 ***(umhos/cm)***

Temperature: 17.6 ***(^{o} C)*** | Turbidity: 77.6 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Billy Shirley

Sampler's Signature: Allen McBride | Date: 9/27/2011

Surface Water Sampling Log

REI Consultants, Inc.

Project Name:	Newton Landfill		
Contact Person:	Rodney Hamby	Phone/Fax:	704-462-1348

Outlet:	CR-1		
Date:	9/27/2011	Time:	11:40
pH:	7.23	Conductivity:	187.7 *umhos/cm*
Flow:	N/A	Temperature:	19.6 *°C*
Sample Odor and Physical Appearance:	Clear / No Odor		
Comments:	Turbidity = 1.71 NTU		

Outlet:	SW-2		
Date:	9/27/2011	Time:	11:29
pH:	7.50	Conductivity:	249 *umhos/cm*
Flow:	N/A	Temperature:	19.7 *°C*
Sample Odor and Physical Appearance:	Clear / No Odor		
Comments:	Turbidity = 3.68 NTU		

Outlet:			
Date:		Time:	
pH:		Conductivity:	*umhos/cm*
Flow:		Temperature:	*°C*
Sample Odor and Physical Appearance:			
Comments:			

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix B:

Dissolved Metals and TSS Detections

The data for dissolved metals and Total Suspended Solids (TSS) are reported on a voluntary basis and is not required by North Carolina DENR regulations. The following summary is a complete listing of concentrations detected above NCDENR Solid Waste Section Limits (SWSLs) during the 2nd Semi-Annual Monitoring Event of 2011. Monitoring wells having specimens containing less than SWSL quantities of respective analytes are noted as blank entries.

Summary of Dissolved Metals and TSS Detections

Newton Landfill

Permit: #18-01

REIC Job Number: 1109S44
Sample Date: 9-2011

Summary of Detections by Monitoring Well (MW)													
Parameter	SWSL[1]	MW-1	MW-3	MW-7A	MW-9	MW-10A	MW-10B	MW-11	MW-13	MW-14	MW-14A	MW-15	MW-16
Chromium, Dissolved	0.010												
Lead, Dissolved	0.010												
Nickel, Dissolved	0.050				0.227								
Total Suspended Solids (TSS)	1	144	30	22	54	249	8	54	8	62	27	112	86

Summary of Detections by Monitoring Well (MW)												
Parameter	SWSL[1]	MW-16A	MW-18	MW-20	MW-21	MW-23	MW-24	MW-24D	OW-1	OW-3	CR-1	SW-2
Chromium, Dissolved	0.010											
Lead, Dissolved	0.010											
Nickel, Dissolved	0.050											
Total Suspended Solids (TSS)	1	3	<1	1	3	522	802	78	28	-	3	1

FOOTNOTES:

1. SWSL - Solid Waste Section Limit (mg/L)

2. Only results above SWSLs shown

SPECIAL NOTES:

All data reported in mg/L.

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix A:

2nd Semi-Annual 2011 Summary of Detections

The following summary is a complete listing of concentrations detected above NCDENR Solid Waste Section Limits (SWSLs) during the 2nd Semi-Annual Monitoring Event of 2011. Concentrations detected at levels above established North Carolina groundwater standards (as denoted in bold print) are highlighted in red. Monitoring wells having specimens containing less than SWSL quantities of respective analytes are noted as blank entries.

SUMMARY OF DETECTIONS BY MONITORING WELL (MW)

Newton Landfill

Permit: #18-01

REIC Job #: 1109S44

Sample Date: 09-2011

Parameter	GW Std.[1]	SWSL[2]	MW-1	MW-3	MW-7A	MW-9	MW-10A	MW-10B	MW-11	MW-13	MW-14	MW-14A	MW-15	MW-16	MW-16A	MW-18	MW-20	MW-21
1,1,2-Trichloroethane	0.0006	0.001																
1,1,1-Trichloroethane	0.2	0.001															0.0031	
1,1-Dichloroethane	0.006	0.005	0.227	0.0504		0.434	0.177	0.0326	0.0115	0.0387	0.242		0.434	0.114	0.0356		0.587	
1,1-Dichloroethene	0.007	0.005															0.0064	
1,2-Dichlorobenzene	0.02	0.005																
1,2-Dichloroethane	0.00002	0.001				0.0691	0.0087		0.0074		0.0051	0.0012						
1,2-Dichloropropane	0.0006	0.001	0.0061			0.0289	0.0225		0.0010		0.0039		0.0013				0.0085	
1,4-Dichlorobenzene	0.006	0.001	0.0018			0.0095	0.0078	0.0016			0.0248	0.0050	0.0057	0.0017			0.0039	
2-Butanone (Methyl ethyl ketone)	4	0.100	13.5	0.0587														
2-Hexanone	NL	0.050	0.172															
4-Methyl-2-pentanone	NL	0.100	1.23															
Acetone	6	0.100	12.3	0.0999														
Benzene	0.001	0.001	0.0146	0.0020		0.0154	0.0067				0.0155		0.0152	0.0024			0.0184	
Bromochloromethane	0.0006	0.003																
Chlorobenzene	0.05	0.003									0.0088		0.0048					
Chloroethane	3	0.010	0.168								0.0145			0.0101				
Chloroform	0.07	0.005																
cis-1,2-Dichloroethene	0.07	0.005				0.175	0.0061	0.0135		0.0366	0.250		0.464	0.0178	0.0383		1.40	
Dibromochloromethane	0.0004	0.003																
Ethylbenzene	0.6	0.001	0.0246			0.0065					0.0167							
Methylene chloride	0.005	0.001	0.0206			0.0069		0.0014			0.0023		0.0824				0.0530	
Tetrachloroethene	0.0007	0.001		0.0033			0.0013		0.0021	0.0023	0.0040	0.0203	0.0068	0.0013	0.0017		0.0661	
Toluene	0.6	0.001	0.195			0.0313					0.0043							
trans-1,2-Dichloroethene	0.1	0.005				0.0088					0.0059		0.0106				0.0059	
Trichloroethene	0.003	0.001		0.0048		0.0020		0.0054	0.0014	0.0214	0.0341	0.0066	0.110	0.0202			0.900	
Trichlorofluoromethane	2	0.001	0.0041	0.0016		0.0024	0.0019		0.0196	0.0126	0.0031	0.0017	0.0165	0.0105	0.0152		0.0174	
Vinyl chloride	0.00003	0.001	0.0171			0.0823	0.0078	0.0044		0.0054	0.0386		0.0102	0.0107	0.0047			
Xylenes	0.5	0.005	0.0399	0.0125		0.0493					0.210		0.0472				0.0172	
Chromium	0.01	0.010					0.0160											
Lead	0.015	0.010																
Nickel	0.1	0.050	0.0506			0.195												
Total Suspended Solids (TSS)		1	144	30	22	54	249	8	54	8	62	27	112	86	3	<1	1	3

FOOTNOTES:

[1]GW Std. - North Carolina Groundwater Standard

[2]SWSL - Solid Waste Section Limit (mg/L)

SPECIAL NOTES:

- All concentrations detected above the GW Std. are highlighed in RED TEXT

- All data reported in mg/L.

- Trip Blank results for all volatile analytes were ND (Not Detected) at the SWSL

SUMMARY OF DETECTIONS BY MONITORING WELL (MW)

Newton Landfill

Permit: #18-01

REIC Job #: 1109S44

Sample Date: 09-2011

Parameter	GW Std.[1]	SWSL[2]	MW-23	MW-24	MW-24D	OW-1	OW-3	CR-1	SW-2
1,1,2-Trichloroethane	0.0006	0.001					NS		
1,1,1-Trichloroethane	0.2	0.001					NS		
1,1-Dichloroethane	0.006	0.005				0.0531	NS		
1,1-Dichloroethene	0.007	0.005					NS		
1,2-Dichlorobenzene	0.02	0.005					NS		
1,2-Dichloroethane	0.00002	0.001					NS		
1,2-Dichloropropane	0.0006	0.001					NS		
1,4-Dichlorobenzene	0.006	0.001				0.0010	NS		
2-Butanone (Methyl ethyl ketone)	4	0.100					NS		
2-Hexanone	NL	0.050					NS		
4-Methyl-2-pentanone	NL	0.100					NS		
Acetone	6	0.100					NS		
Benzene	0.001	0.001				0.0053	NS		
Bromochloromethane	0.0006	0.003					NS		
Chlorobenzene	0.05	0.003					NS		
Chloroethane	3	0.010					NS		
Chloroform	0.07	0.005					NS		
cis-1,2-Dichloroethene	0.07	0.005				0.0435	NS		
Dibromochloromethane	0.0004	0.003					NS		
Ethylbenzene	0.6	0.001					NS		
Methylene chloride	0.005	0.001				0.0016	NS		
Tetrachloroethene	0.0007	0.001				0.0045	NS		
Toluene	0.6	0.001					NS		
trans-1,2-Dichloroethene	0.1	0.005					NS		
Trichloroethene	0.003	0.001				0.0093	NS		
Trichlorofluoromethane	2	0.001					NS		
Vinyl chloride	0.00003	0.001				0.0109	NS		
Xylenes	0.5	0.005				0.0100	NS		
Chromium	0.01	0.010					NS		
Lead	0.015	0.010					NS		
Nickel	0.1	0.050					NS		
Total Suspended Solids (TSS)		1	522	802	78	28	NS	3	1

FOOTNOTES:

[1]GW Std. - North Carolina Groundwater Standard

[2]SWSL - Solid Waste Section Limit (mg/L)

SPECIAL NOTES:

- All concentrations detected above the GW Std. are highlighed in RED TEXT

- All data reported in mg/L.

- Trip Blank results for all volatile analytes were ND (Not Detected) at the SWSL

- NS indicates no sample collected; well was dry

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Catawba County, North Carolina

Newton Landfill

Permit: #18-01

December 2011

EXECUTIVE SUMMARY

REI Consultants, Inc., (REIC) has performed the 2nd Semi-Annual 2011 Monitoring Program for the closed ***Newton Landfill*** operated by Catawba County, North Carolina. The procedural aspects of this monitoring program were determined after a review of historical records, site specific geology, consultations with the North Carolina Department of the Environment and Natural Resources (NCDENR) regulations, orders as formulated from ***15A NCAC 13B***, and communications from North Carolina agency officials. During those communications it was determined that Monitoring Wells MW-1, MW-3, MW-9, MW-10A, MW-10B, MW-11, MW-13, MW-14, MW-14A, MW-15, MW-16, MW-16A, MW-20, MW-21, MW-23, MW-24, MW-24D, OW-1, and OW-3 were to be evaluated twice a year for particular constituents and reported in semi-annual reports relative to North Carolina groundwater standards. In addition, wells MW-7A and MW-18 are to be sampled every 18 months. NCDENR issued a letter to Catawba County dated June 3, 2004 with approval of the above monitoring network.

In September 2011, groundwater samples were obtained by REIC's environmental field technicians, utilizing the protocols established by NCDENR. Summaries of the field sampling activities are enclosed in ***Appendix C*** of this report. No anomalies were experienced during this sampling with the exception of significant levels of suspended solids (***see Appendix B: "Summary of Dissolved Metals and TSS Analyses"***) contained in several groundwater samples.

As with previous monitoring events, water levels were recorded from all monitoring wells during the 2nd Semi-Annual Sampling Event of 2011, as well as any existing monitoring points within the ***Newton Landfill*** boundaries. This information was utilized to generate groundwater potentiometric maps for the Newton Facility. The potentiometric contour maps are included in ***Appendix H***, and a summary of the static water level data is included as ***"A Summary of Static Water Levels and %LEL"***, found in ***Appendix F***. An additional map indicating topographic contours and all wells at the facility is included in ***Appendix G***. The groundwater hydraulic gradients and velocities estimated from the current study are of the same magnitudes as in previous investigations.

Results from the 2nd Semi-Annual 2011 Sampling Event were compared to North Carolina groundwater standards. Components determined to be above North Carolina groundwater standards are as follows:

Component/Parameter	Monitoring Point
1,1-Dichloroethane	MW-1, MW-3, MW-9, MW-10A, MW-10B, MW-11, MW-13, MW-14, MW-15, MW-16, MW-16A, MW-20, OW-1
1,2-Dichloroethane	MW-9, MW-10A, MW-11, MW-14, MW-14A
1,2-Dichloropropane	MW-1, MW-9, MW-10A, MW-11, MW-14, MW-15, MW-20
1,4-Dichlorobenzene	MW-9, MW-10A, MW-14
Acetone	MW-1
Benzene	MW-1, MW-3, MW-9, MW-10A, MW-14, MW-15, MW-16, MW-20, OW-1
2-Butanone	MW-1
Chromium	MW-10A
cis-1,2-Dichloroethene	MW-9, MW-14, MW-15, MW-20
Methylene chloride	MW-1, MW-9, MW-15, MW-20
Nickel	MW-9
Tetrachloroethene	MW-3, MW-10A, MW-11, MW-13, MW-14, MW-14A, MW-15, MW-16, MW-16A, MW-20, OW-1
Trichloroethene	MW-3, MW-10B, MW-13, MW-14, MW-14A, MW-15, MW-16, MW-20, OW-1
Vinyl chloride	MW-1, MW-9, MW-10A, MW-10B, MW-13, MW-14, MW-15, MW-16, MW-16A, OW-1

These findings are summarized specifically in ***Appendix A*** as ***"2nd Semi-Annual 2011 Summary of Detections"***.

Based upon the results of the current groundwater monitoring event, and pursuant to NCDENR policy and directives, it is recommended that the ***Newton Landfill*** continue monitoring the modified Appendix I listing, which includes Appendix I Volatiles and Chromium, Lead, and Nickel, during the 1st Semi-Annual Sampling Event of 2012.

INTRODUCTION

In July of 1998, REIC was contracted by Catawba County Solid Waste Authority to conduct a complete groundwater monitoring program for the closed landfill denoted as the "***Newton Landfill***", and registered with the NCDENR as Permit #18-01. REIC met with Mr. Larry Rose and Mr. Mark Poindexter of the NCDENR in August 1998, then again with Mr. Poindexter in March 1999, and discussed the requirements of the permit and subsequent Agency directives that have occurred during the past several years. Additionally, REIC reviewed records both from Catawba County's internal files and those stored at the NCDENR's Department of Records Facility in Raleigh, North Carolina. From these historical files REIC collated and generated a historical summary of the collected data for the monitoring points selected for monitoring consideration. Following the 2nd Semi-Annual Monitoring Event of 1998, monitoring wells MW-18, MW-19, MW-20, MW-21 and MW-22 were installed. In addition, after the 1st semi-annual 2004 event, monitoring wells MW-23, MW-24, and MW-24D were added to the program. All data from the approved monitoring network are incorporated within this report and represent what is believed to be a comprehensive collection of the groundwater quality profile for the Newton Facility.

Continuing the program in September 2011, REIC collected groundwater samples from 20 monitoring wells and two surface water sites located at the facility. The sampling was conducted to satisfy compliance with the groundwater monitoring program for the 2nd Semi-Annual 2011 Monitoring Event.

Additionally, the groundwater potentiometric surface has been modeled and is presented in the form of a static groundwater level contour map. This map identifies the general subsurface water movement and assists in determining potential, as well as identifiable, contaminant movement. As agreed, groundwater constituent levels (relative to North Carolina groundwater standards), the potentiometric surface, and groundwater flow rates are presented in this report.

INVESTIGATION

The groundwater and surface water monitoring points were sampled in accordance with State and Federal guidelines. Static water levels were measured prior to and during well purging to ascertain groundwater elevations and generate data to produce

a valid potentiometric map. The monitoring wells were purged using laboratory decontaminated Teflon™ bailers before sampling, and field analytical testing was employed to assure adequate purging. Copies of the field sampling report and summaries of these logs are in ***Appendix C***. Groundwater samples were taken as specified in REIC's Standard Operating Procedures (SOPs) that satisfy NCDENR Solid Waste regulations and guidance.

Groundwater samples were stored in pre-cleaned, preserved containers, transported in iced coolers, and delivered to the laboratory in good condition by REIC field personnel. The samples were analyzed in the laboratory referencing current EPA and NCDENR approved methodologies.

Methane measurements, as percent Lower Explosion Limit (% LEL), were recorded at each monitoring well prior to purging. Initial readings were taken at the top of casing as soon as the well caps (where installed) were removed. A second measurement was obtained after sufficient time had elapsed to allow for the equalization of any pressure differential between the well casing and the ambient surface. The methane measurements are documented in ***Appendix F: "Summary of All Static Water Levels and %LEL".***

The groundwater data are presented within this report relative to North Carolina groundwater quality standards. Per instructions of NCDENR Solid Waste Section representatives, the data have not been processed in a statistical manner to distinguish significant down-gradient elevations of constituents. However, constituents exceeding North Carolina groundwater quality standards are noted in the ***"2nd Semi-Annual 2011 Summary of Detections"*** in Appendix A.

The laboratory Quality Assurance Program included all appropriate, method specific Quality Controls. All laboratory data met the required QC criteria and were subjected to stringent REIC acceptance review prior to approval for inclusion in this report. Data have been reported to method detection limits (MDLs) as requested by NCDENR. However, note that any values reported below Solid Waste Section Limits (SWSLs), flagged with a "J" qualifier, are only estimates, are not quantitative, and should not be used numerically in any way.

INVESTIGATION RESULTS

A. HYDROLOGICAL POTENTIOMETRIC SUMMARY

Models of two potentiometric surfaces have been prepared from the field data collected during the 2nd Semi-Annual 2011 Groundwater Sampling Event. One model has been created to depict the upper-most or Shallow Aquifer and another has been produced to portray a deeper or Bedrock Aquifer.

Both models were developed from groundwater elevation data calculated from the static water levels measured during the Fall 2011 Sampling Event. The groundwater depth measurements were obtained in the monitoring wells by REIC field personnel, prior to the execution of the purging and sampling procedures. Horizontal and vertical control for the field data was established from mapping based on North Carolina State Plane coordinates, as provided by J. Mike Honeycutt Surveying.

The potentiometric maps for each aquifer include the waste disposal area boundaries and streams. These features were transcribed from drawings provided by McGill Associates, P.A. An additional map that includes all wells at the facility as well as topographic contours is included in Appendix G: "***Sampling Locations and Topographic Contours***". Topographic contours were also provided by drawings from McGill Associates, P.A.

The Shallow Aquifer is the upper-most water-bearing zone of the Newton Landfill site. While some of the geologic material of the zone may be eluvial in origin, the lithology is essentially unconsolidated sediment of silt and sand sizes. It has been determined that 20 wells have screens set in this zone, although actual drill logs are not available for confirmation for a few of the wells at the site. The potentiometric map for this aquifer was modeled utilizing static water levels from wells screened in the upper-most aquifer, as well as from stream elevation points and topographic contours. A copy of this drawing is included in ***Appendix H: "Potentiometric Contour Maps"***.

The Bedrock Aquifer is the deeper groundwater zone monitored at the landfill site. The lithology of this aquifer has typically been described as weathered, biotite gneiss. While

the Shallow and Bedrock Aquifers were analyzed separately and are shown on two different potentiometric drawings, no continuous aquitard can be distinguished between the two zones in the drilling information. Groundwater elevations from 16 deeper-screened wells were utilized to create the Bedrock Aquifer model. No stream water elevations were included in this analysis. The databases for the Shallow and Bedrock Aquifers contained separate measurement points. The wells in the deeper database were shown by drill logs to have screens set in the bedrock or are of a sufficient depth to logically be screened in the referenced zone. All of the deep wells identified in the available drill logs have screens that are set fully in the weathered rock except for two partially penetrating wells that have screens with tops exposed to sediment. A copy of the resulting potentiometric map is contained in ***Appendix H: "Potentiometric Contour Maps"***.

The horizontal component of hydraulic gradient has been estimated graphically for the Shallow and Bedrock Aquifers. In each case, flow paths were chosen which traverse the central portions of the main waste disposal area of the ***Newton Landfill***. The paths were drawn on the respective potentiometric maps, following traces that are approximately normal to the hydrostatic contours, from the up-gradient western portion of the waste area to the locale of the stream along the eastern border. Other flow routes could have been chosen with varying results for the measured hydraulic gradient. The flow paths utilized in the calculation of the hydraulic gradients for the two aquifers are illustrated on drawings included in ***Appendix H: "Potentiometric Contour Maps."***

Vertical gradient calculations have been prepared for seven sets of clustered wells at the Newton Facility. These calculations generally indicate discharge conditions in the vicinity of the streams and recharge in upland areas of the site. A copy of the vertical gradient analysis is included in ***Appendix I***.

Lateral groundwater flow velocities have been estimated for the two aquifers using a form of Darcy's Law, as follows:

Shallow Aquifer:

$$V = \frac{KI}{n} = \frac{53\ \text{ft}}{\text{yr}}$$

where:

V = Groundwater Seepage Velocity in ft/yr.
K = Average Hydraulic Conductivity = 2.8×10^{-4} cm/sec
(Averaged from data previously provided by others).
I = Hydraulic Gradient = 0.037 ft/ft.
Following a path normal to the groundwater potentiometric contours across the main waste disposal area.
n = Effective Porosity = 0.20 (unitless).
(Typical textbook value).

Bedrock Aquifer:

$$V = \frac{KI}{n} = \frac{930\ \text{ft}}{\text{yr}}$$

where:

V = Groundwater Seepage Velocity in ft/yr.
K = Average Hydraulic Conductivity = 2.5×10^{-3} cm/ sec.
(Averaged from data previously provided by others).
I = Hydraulic Gradient = 0.036 ft/ft.
Following a path normal to the groundwater potentiometric contours across the main waste disposal area.
n = Effective Porosity = 0.10 (unitless).
(Typical textbook value).

B. ANALYTICAL SUMMARY

Analytical parameters which were detected above SWSLs are summarized in ***Appendix A "2nd Semi-Annual 2011 Summary of Detections"***, which is included on the following pages. Values greater than the North Carolina groundwater standards are shown in red print.

All available analytical results of previous sampling events are included as a separate document under ***Appendix D: "Historical Data Summary".*** Components determined to be above North Carolina groundwater standards for the 2nd Semi-Annual 2011 groundwater sampling event are as follows:

Component/Parameter	Monitoring Point
1,1-Dichloroethane	MW-1, MW-3, MW-9, MW-10A, MW-10B, MW-11, MW-13, MW-14, MW-15, MW-16, MW-16A, MW-20, OW-1
1,2-Dichloroethane	MW-9, MW-10A, MW-11, MW-14, MW-14A
1,2-Dichloropropane	MW-1, MW-9, MW-10A, MW-11, MW-14, MW-15, MW-20
1,4-Dichlorobenzene	MW-9, MW-10A, MW-14
Acetone	MW-1
Benzene	MW-1, MW-3, MW-9, MW-10A, MW-14, MW-15, MW-16, MW-20, OW-1
2-Butanone	MW-1
Chromium	MW-10A
cis-1,2-Dichloroethene	MW-9, MW-14, MW-15, MW-20
Methylene chloride	MW-1, MW-9, MW-15, MW-20
Nickel	MW-9
Tetrachloroethene	MW-3, MW-10A, MW-11, MW-13, MW-14, MW-14A, MW-15, MW-16, MW-16A, MW-20, OW-1
Trichloroethene	MW-3, MW-10B, MW-13, MW-14, MW-14A, MW-15, MW-16, MW-20, OW-1
Vinyl chloride	MW-1, MW-9, MW-10A, MW-10B, MW-13, MW-14, MW-15, MW-16, MW-16A, OW-1

These findings are summarized specifically in ***Appendix A*** as ***"2nd Semi-Annual 2011 Summary of Detections".***

GENERAL CONCLUSIONS AND RECOMMENDATIONS

Based upon the results of the current groundwater monitoring event, and pursuant to NCDENR policy and directives, it is recommended that the ***Newton Landfill*** continue in its current monitoring mode, with analysis of the modified Appendix I list, during the 1st Semi-Annual Sampling Event of 2012.

REIC

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American Water Works Association

The Solid Waste Association of North America

West Virginia Manufacturers Association

Association of West Virginia Solid Waste Authorities

West Virginia Oil Marketers & Grocers Association

In preparing this report, the professional services of REI Consultants, Inc. have been performed, findings obtained, and conclusions reached in accordance with present State and Federal regulations, and generally accepted review principles and practices. Questions regarding any of the information presented in this report should be directed to REIC headquarters at (304) 255-2500.

Respectfully submitted,

12/20/11

NORTH CAROLINA PROFESSIONAL SEAL 028029 12.20.11 ENGINEER MICHAEL P. HOFE

Michael P. Hofe, P.E. (NC #28029)
Manager
Environmental Monitoring & Investigative Assessment Department

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Association of West Virginia Solid Waste Authorities

West Virginia Oil Marketers & Grocers Association

December 22, 2011

Mr. Rodney Hamby
Catawba County
P.O. Box 389
Newton, NC 28658

RE: Blackburn Landfill, Permit #18-03
Newton Landfill, Permit #18-01
2nd Semiannual 2011 Groundwater Monitoring Reports

Mr. Hamby;

Please find enclosed the 2nd Semiannual 2011 Groundwater Monitoring Reports for Blackburn Landfill and Newton Landfill. Included are one (1) hard copy and two (2) electronic copies of each report. Electronic copies of these reports will be submitted to NCDENR.

Should you have any questions, or if you need additional information, please feel free to contact me at (800) 999-0105.

Sincerely,

Michael Hofe, PE
REI Consultants, Inc.

cc: Jeff Bishop, McGill
Compliance Unit – NCDENR DWM-SWS

Enclosures