RESEARCH ENVIRONMENTAL & INDUSTRIAL CONSULTANTS, INC.

Post Office Box 286 • Beaver, WV 25813 • 800.999.0105
304.255.2500 • 304.255.2572(fax)
website: www.reiclabs.com

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

November 26, 2013

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 2013 Groundwater Monitoring Reports

Mr. Hamby;

Please find enclosed the 2nd Semiannual 2013 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: Mark Cathey, McGill (1 CD)
Compliance Unit – NCDENR DWM-SWS (2 CDs)

Enclosures

RESEARCH ENVIRONMENTAL & INDUSTRIAL CONSULTANTS, INC.

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

225 Industrial Park Rd.
Post Office Box 286
Beaver, WV 25813
800.999.0105
304.255.2500 • 304.255.2572 (fax)
website: www.reiclabs.com

Member:

American Chemical Society

Association of Official Analytical Chemists

Petroleum Marketers Association

Rural Water Association

Mining & Reclamation Association

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,

11/18/2013

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

TABLE OF CONTENTS

EXECUTIVE SUMMARY 2
INTRODUCTION 4
FIELD SAMPLING SUMMARY..... 4
GROUNDWATER FLOW RATE AND DIRECTION..... 5
ANALYTICAL RESULTS 8
CONCLUSIONS AND RECOMMENDATIONS 9

APPENDICES
Appendix A: Summary of Detections by Monitoring Well
Appendix B: Dissolved Metals and TSS Detections
Appendix C: Sampling / Field Log Summary and Field Sample Logs
Appendix D: Laboratory Analytical Report and Chain-of-Custody Record
Appendix E: Historical Data Summary
Appendix F: Summary of All Static Water Levels and % LEL
Appendix G: Sampling Locations and Topographic Contours
Appendix H: Potentiometric Contour Maps
Appendix I: Vertical Gradient Calculations

2nd Semi-Annual 2013 Groundwater Monitoring Report

Catawba County, North Carolina

Newton Landfill

Permit: #18-01

September 2013 Event

EXECUTIVE SUMMARY

REI Consultants, Inc., (REIC) has prepared the 2nd Semi-Annual 2013 Monitoring Report for the closed Newton Landfill, owned by Catawba County, North Carolina. The procedural aspects of the Newton Landfill monitoring program were determined after a review of historical records, site specific geology, North Carolina Department of the Environment and Natural Resources (NCDENR) regulations from 15A NCAC 13B, and communications with NCDENR 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 are to be evaluated twice a year and reported in semi-annual reports, with results compared 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.

During the 2nd semi-annual 2013 event, groundwater samples were obtained by REIC's environmental field technicians, utilizing 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") in several groundwater samples.

Static water levels were measured in all monitoring wells during the 2nd semi-annual 2013 event. A summary of the static water level data is included as "A Summary of Static Water Levels and %LEL", found in Appendix F. A map indicating topographic contours and all well locations at the facility is included in Appendix G. Static water levels and topographic contours were utilized to generate groundwater potentiometric maps, which are included in Appendix H. The groundwater hydraulic gradients and velocities estimated from the current event are of similar magnitude as those of previous events.

2nd Semi-Annual 2013 Groundwater Monitoring Report

Results from the 2nd semi-annual 2013 sampling event were compared to North Carolina groundwater standards. Parameters determined to be above North Carolina groundwater standards are as follows:

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-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
2-Butanone	MW-1
2-Hexanone	MW-1
Acetone	MW-1
Benzene	MW-1, MW-3, MW-9, MW-10A, MW-14, MW-15, MW-16, MW-20, OW-1
cis-1,2-Dichloroethene	MW-9, MW-14, MW-15, MW-20
Methylene chloride	MW-1, MW-15, MW-20
Tetrachloroethene	MW-3, MW-9, MW-11, MW-13, MW-14, MW-14A, MW-15, MW-16A, MW-20, OW-1
Trichloroethene	MW-3, MW-13, MW-14, MW-14A, MW-15, MW-16, MW-16A, MW-20, OW-1
Vinyl chloride	MW-1, MW-9, MW-10B, MW-13, MW-14, MW-15, MW-16, MW-16A, MW-20, OW-1
Chromium	MW-9, MW-16
Nickel	MW-9

These findings are summarized specifically in Appendix A. 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 for Appendix I volatile organic compounds and chromium, lead, and nickel during the 1st semi-annual sampling event of 2014.

INTRODUCTION

Newton Landfill is a closed landfill maintained by Catawba County, North Carolina. The landfill is registered with NCDENR as Permit #18-01. The groundwater monitoring network, approved by NCDENR on June 3, 2004, consists of 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, all of which are sampled semiannually, and wells MW-7A and MW-18, which are sampled every 18 months. In addition, two surface water monitoring locations, designated CR-1 and SW-2, are sampled semiannually.

During the 2nd semi-annual 2013 monitoring event, REIC collected groundwater samples from all of the above semiannual monitoring wells. In addition, samples were collected from the two surface water locations.

Groundwater constituent concentrations (relative to North Carolina groundwater standards), potentiometric surface maps, and groundwater flow rates are presented in this report.

FIELD SAMPLING SUMMARY

The groundwater and surface water monitoring points were sampled in accordance with state and federal guidelines. Static water levels were measured prior to well purging. The monitoring wells were purged and sampled using laboratory decontaminated polytetrafluoroethylene bailers, and field parameter testing was employed to assure adequate purging. Copies of the field sampling logs and summaries of these logs are in Appendix C. Groundwater samples were collected as specified in REIC's Standard Operating Procedures (SOPs) that satisfy NCDENR guidance.

Groundwater samples were collected in pre-cleaned, preserved containers, transported in iced coolers, and delivered to the laboratory in good condition by REIC field personnel.

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 presented in Appendix F: "Static Water Levels and %LEL".

GROUNDWATER FLOW RATE AND DIRECTION

Models of two potentiometric surfaces have been prepared from the field data collected during the 2nd semi-annual 2013 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. 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 topographic contours, waste disposal area boundaries, and streams. These features were obtained 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".

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 map 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 wells in the deeper database were shown by drill logs to have screens set in the bedrock or are of a sufficient depth to be screened in the bedrock 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 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 toward 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 indicated on the maps included in Appendix H: "Potentiometric Contour Maps."

Vertical gradient calculations have been prepared for seven sets of clustered wells at the Newton Landfill. 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.

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

Shallow Aquifer:

$$V = \frac{KI}{n} = \frac{49\ \text{ft}}{\text{yr}}$$

where:

V = groundwater seepage velocity in ft/yr
K = hydraulic conductivity = 2.8×10^{-4} cm/sec (average from site-specific data)
I = hydraulic gradient = 0.034 ft/ft following a path normal to the groundwater potentiometric contours across the main waste disposal area
n = effective porosity = 0.20 (unitless) (typical value for local material)

Bedrock Aquifer:

$$V = \frac{KI}{n} = \frac{1000\ \text{ft}}{\text{yr}}$$

where:

V = groundwater seepage velocity in ft/yr
K = hydraulic conductivity = 2.5×10^{-3} cm/sec (average from site-specific data)
I = hydraulic gradient = 0.039 ft/ft following a path normal to the groundwater potentiometric contours across the main waste disposal area
n = effective porosity = 0.10 (unitless) (typical value for local material)

ANALYTICAL RESULTS

Samples were analyzed in the laboratory referencing current U.S. EPA and NCDENR approved methodologies. 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.

Analytical parameters detected above SWSLs are summarized in Appendix A: "2nd Semi-Annual 2013 Summary of Detections". Values greater than the North Carolina groundwater standards are shown in red print. 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.

Parameters determined to be above North Carolina groundwater standards for the 2nd semi-annual 2013 groundwater sampling event are as follows:

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-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
2-Butanone	MW-1
2-Hexanone	MW-1
Acetone	MW-1
Benzene	MW-1, MW-3, MW-9, MW-10A, MW-14, MW-15, MW-16, MW-20, OW-1
cis-1,2-Dichloroethene	MW-9, MW-14, MW-15, MW-20

Parameter	Monitoring Point
Methylene chloride	MW-1, MW-15, MW-20
Tetrachloroethene	MW-3, MW-9, MW-11, MW-13, MW-14, MW-14A, MW-15, MW-16A, MW-20, OW-1
Trichloroethene	MW-3, MW-13, MW-14, MW-14A, MW-15, MW-16, MW-16A, MW-20, OW-1
Vinyl chloride	MW-1, MW-9, MW-10B, MW-13, MW-14, MW-15, MW-16, MW-16A, MW-20, OW-1
Chromium	MW-9, MW-16
Nickel	MW-9

These findings are summarized specifically in Appendix A. All available analytical results of previous sampling events are included in Appendix D: "Historical Data Summary".

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 2014.

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix A:

2nd Semi-Annual 2013 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 2013. Concentrations detected at levels above established North Carolina groundwater standards (as denoted in bold print) are highlighted in red. Monitoring wells having samples 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 #: 1303M56

Sample Date: 09-2013

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
1,1,2-Trichloroethane	0.0006	0.001										
1,1,1-Trichloroethane	0.2	0.001										
1,1-Dichloroethane	0.006	0.005	0.211	0.0360		0.268	0.214	0.0206	0.0127	0.0455	0.181	
1,1-Dichloroethene	0.007	0.005			N							
1,2-Dichlorobenzene	0.02	0.005			O							
1,2-Dichloroethane	0.00002	0.001				0.117	0.0057		0.0076			0.0014
1,2-Dichloropropane	0.0006	0.001	0.0075		S	0.0229	0.0046		0.0010		0.0036	
1,4-Dichlorobenzene	0.006	0.001	0.0020		A	0.0096	0.0062				0.0232	
2-Butanone (Methyl ethyl ketone)	4	0.100	10.2		M							
2-Hexanone	0.04	0.050	0.198		P							
4-Methyl-2-pentanone	NL	0.100	1.45		L							
Acetone	6	0.100	8.34		E							
Benzene	0.001	0.001	0.0141	0.0015		0.0182	0.0055				0.0131	
Bromochloromethane	0.0006	0.003										
Chlorobenzene	0.05	0.003									0.0080	
Chloroethane	3	0.010	0.221					0.0223				
Chloroform	0.07	0.005										
cis-1,2-Dichloroethene	0.07	0.005				0.366				0.0476	0.251	
Dibromochloromethane	0.0004	0.003										
Ethylbenzene	0.6	0.001	0.0247			0.0130					0.0048	
Methylene chloride	0.005	0.001	0.0301	0.0047		0.0049			0.0014			
Tetrachloroethene	0.0007	0.001		0.0032		0.0013			0.0017	0.0026	0.0037	0.0221
Toluene	0.6	0.001	0.254			0.0056	0.0043				0.0041	
trans-1,2-Dichloroethene	0.1	0.005										
Trichloroethene	0.003	0.001		0.0042		0.0020			0.0014	0.0220	0.0232	0.0067
Trichlorofluoromethane	2	0.001							0.0136	0.0080	0.0021	
Vinyl chloride	0.00003	0.001	0.0169			0.0932		0.0096		0.0057	0.0286	
Xylenes	0.5	0.005	0.0437	0.0095		0.0834					0.234	

SUMMARY OF DETECTIONS BY MONITORING WELL (MW)

Newton Landfill

Permit: #18-01

REIC Job #: 1303M56

Sample Date: 09-2013

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
Chromium	0.01	0.010				0.0193						
Lead	0.015	0.010										
Nickel	0.1	0.050	0.0585			0.304						
Total Suspended Solids (TSS)		1	68	11		1,500	54	13	68	13	27	9

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 #: 1303M56

Sample Date: 09-2013

Parameter	GW Std.[1]	SWSL[2]	MW-15	MW-16	MW-16A	MW-18	MW-20	MW-21	MW-23	MW-24	MW-24D	OW-1
1,1,2-Trichloroethane	0.0006	0.001										
1,1,1-Trichloroethane	0.2	0.001										
1,1-Dichloroethane	0.006	0.005	0.221	0.114	0.0377		0.386					0.0292
1,1-Dichloroethene	0.007	0.005				N	0.0065					
1,2-Dichlorobenzene	0.02	0.005				O						
1,2-Dichloroethane	0.00002	0.001										
1,2-Dichloropropane	0.0006	0.001	0.0010			S	0.0072					
1,4-Dichlorobenzene	0.006	0.001	0.0037			A	0.0034					0.0011
2-Butanone (Methyl ethyl ketone)	4	0.100				M						
2-Hexanone	0.04	0.050				P						
4-Methyl-2-pentanone	NL	0.100				L						
Acetone	6	0.100				E						
Benzene	0.001	0.001	0.0101	0.0021			0.0164					0.0029
Bromochloromethane	0.0006	0.003										
Chlorobenzene	0.05	0.003	0.0035									
Chloroethane	3	0.010		0.0104								
Chloroform	0.07	0.005										
cis-1,2-Dichloroethene	0.07	0.005	0.242	0.0097	0.0389		0.966					0.0266
Dibromochloromethane	0.0004	0.003										
Ethylbenzene	0.6	0.001										
Methylene chloride	0.005	0.001	0.0450				0.0662					
Tetrachloroethene	0.0007	0.001	0.0040		0.0019		0.0605					0.0046
Toluene	0.6	0.001										
trans-1,2-Dichloroethene	0.1	0.005										
Trichloroethene	0.003	0.001	0.0748	0.0087	0.0176		0.708					0.0076
Trichlorofluoromethane	2	0.001	0.0076		0.0096		0.0179					
Vinyl chloride	0.00003	0.001	0.0116	0.0060	0.0040		0.0055					0.0091
Xylenes	0.5	0.005	0.0293				0.0194					

SUMMARY OF DETECTIONS BY MONITORING WELL (MW)

Newton Landfill

Permit: #18-01

REIC Job #: 1303M56

Sample Date: 09-2013

Parameter	GW Std.[1]	SWSL[2]	MW-15	MW-16	MW-16A	MW-18	MW-20	MW-21	MW-23	MW-24	MW-24D	OW-1
Chromium	0.01	0.010		0.0222								
Lead	0.015	0.010										
Nickel	0.1	0.050										
Total Suspended Solids (TSS)		1	114	190	<5	<5	6	<5	632	1030	63	129

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

SUMMARY OF DETECTIONS BY MONITORING WELL (MW)

Newton Landfill

Permit: #18-01

REIC Job #: 1303M56

Sample Date: 09-2013

Parameter	GW Std.[1]	SWSL[2]	OW-3	CR-1	SW-2
1,1,2-Trichloroethane	0.0006	0.001			
1,1,1-Trichloroethane	0.2	0.001			
1,1-Dichloroethane	0.006	0.005			
1,1-Dichloroethene	0.007	0.005			
1,2-Dichlorobenzene	0.02	0.005			
1,2-Dichloroethane	0.00002	0.001			
1,2-Dichloropropane	0.0006	0.001			
1,4-Dichlorobenzene	0.006	0.001			
2-Butanone (Methyl ethyl ketone)	4	0.100			
2-Hexanone	0.04	0.050			
4-Methyl-2-pentanone	NL	0.100			
Acetone	6	0.100			
Benzene	0.001	0.001			
Bromochloromethane	0.0006	0.003			
Chlorobenzene	0.05	0.003			
Chloroethane	3	0.010			
Chloroform	0.07	0.005			
cis-1,2-Dichloroethene	0.07	0.005			
Dibromochloromethane	0.0004	0.003			
Ethylbenzene	0.6	0.001			
Methylene chloride	0.005	0.001			
Tetrachloroethene	0.0007	0.001			
Toluene	0.6	0.001			
trans-1,2-Dichloroethene	0.1	0.005			
Trichloroethene	0.003	0.001			
Trichlorofluoromethane	2	0.001			
Vinyl chloride	0.00003	0.001			
Xylenes	0.5	0.005			

SUMMARY OF DETECTIONS BY MONITORING WELL (MW)

Newton Landfill

Permit: #18-01

REIC Job #: 1303M56

Sample Date: 09-2013

Parameter	GW Std.[1]	SWSL[2]	OW-3	CR-1	SW-2
Chromium	0.01	0.010			
Lead	0.015	0.010			
Nickel	0.1	0.050			
Total Suspended Solids (TSS)		1	99	<5	<5

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 2013. Monitoring wells having samples 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: 1309L87
Sample Date: 9-2013

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	0.061			0.318								
Total Suspended Solids (TSS)	1	68	11	NS	1500	54	13	68	13	27	9	114	190

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	<5	NS	6	<5	632	1030	63	129	99	<5	<5

FOOTNOTES:

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

2. Only results above SWSLs shown

3. NS - No Sample

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 #: 1309L87

Sampling Date: 9/17/2013

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	16.50	29.56	No Sample	35.72
Static Depth	Feet	13.84	28.10	No Sample	35.72
Well Depth	Feet	29.60	40.40	No Sample	45.63
Water Column Height	Feet	15.76	12.30	No Sample	9.91
Volume Purged	Liters	28	14	No Sample	0
Purging Status	-	Finished Purging	Purged Dry	No Sample	0
Physical Property	**Units**	**MW-1**	**MW-3**	**MW-7A**	**MW-9**
pH	SU	6.40	5.23	No Sample	5.48
Temperature	°C	16.3	16.9	No Sample	17.0
Conductivity	umhos/cm	3480	59.3	No Sample	1281
Turbidity	NTU	33.8	66.9	No Sample	31.1
Appearance	-	Cloudy	Cloudy	No Sample	Cloudy
Odor	-	Strong Odor	No Odor	No Sample	Slight Odor
Total Suspended Solids (TSS)	mg/L	68	11	No Sample	1500

Property	Units	MW-10A	MW-10B	MW-11	MW-13
Sampling Depth	Feet	39.00	32.35	21.75	17.95
Static Depth	Feet	35.22	32.35	16.82	17.59
Well Depth	Feet	49.02	87.78	36.12	78.70
Water Column Height	Feet	13.80	55.26	19.30	61.11
Volume Purged	Liters	25	0	35	108
Purging Status	-	Finished Purging	0	Finished Purging	Finished Purging
Physical Property	**Units**	**MW-10A**	**MW-10B**	**MW-11**	**MW-13**
pH	SU	6.58	6.53	6.40	6.77 Dup 6.76
Temperature	°C	16.9	17.1	15.4	17.3 Dup 17.1
Conductivity	umhos/cm	48.9	295	146	236 Dup 235
Turbidity	NTU	48.9	6.72	66.4	5.51 Dup 5.54
Appearance	-	Cloudy	Clear	Cloudy	Clear
Odor	-	No Odor	Slight Odor	No Odor	No Odor
Total Suspended Solids (TSS)	mg/L	54	13	68	12.7

SAMPLING LOG SUMMARY

Newton Landfill (Permit: #18-01)

REIC Job #: 1309L87

Sampling Date: 9/17/2013

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**	31.53	38.50	26.46	12.10
Static Depth	**Feet**	28.47	29.44	18.82	8.46
Well Depth	**Feet**	34.45	85.56	33.78	20.40
Water Column Height	**Feet**	5.98	56.12	14.96	11.94
Volume Purged	**Liters**	11	100	27	22
Purging Status	**-**	Finished Purging	Finished Purging	Finished Purging	Finished Purging
Physical Property	**Units**	**MW-14**	**MW-14A**	**MW-15**	**MW-16**
pH	**SU**	6.01	6.26	4.58	6.16
Temperature	**°C**	17.0	16.5	16.6	15.7
Conductivity	**umhos/cm**	545	70.4	48.4	418
Turbidity	**NTU**	42.3	8.86	177	99.4
Appearance	**-**	Cloudy	Clear	Cloudy	Cloudy
Odor	**-**	Slight Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	27	8.68	114	190

Property	**Units**	**MW-16A**	**MW-18**	**MW-20**	**MW-21**
Sampling Depth	**Feet**	49.00	No Sample	48.25	21.16
Static Depth	**Feet**	5.11	No Sample	29.10	21.16
Well Depth	**Feet**	81.70	No Sample	84.80	69.80
Water Column Height	**Feet**	76.59	No Sample	55.70	48.64
Volume Purged	**Liters**	134	No Sample	38	0
Purging Status	**-**	Finished Purging	No Sample	Purged Dry	0
Physical Property	**Units**	**MW-16A**	**MW-18**	**MW-20**	**MW-21**
pH	**SU**	7.33 Dup 7.35	No Sample	5.40	8.80
Temperature	**°C**	16.2 Dup 16.2	No Sample	17.4	18.5
Conductivity	**umhos/cm**	273 Dup 276	No Sample	155	91.8
Turbidity	**NTU**	1.35 Dup 1.34	No Sample	8.25	5.41
Appearance	**-**	Clear	No Sample	Clear	Clear
Odor	**-**	No Odor	No Sample	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	<7	No Sample	6	<5

SAMPLING LOG SUMMARY

Newton Landfill (Permit: #18-01)

REIC Job #: 1309L87

Sampling Date: 9/17/2013

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	24.10	25.25	70.90	30.06
Static Depth	Feet	17.30	20.30	23.54	27.73
Well Depth	Feet	34.11	36.60	86.32	36.46
Water Column Height	Feet	16.81	16.30	62.78	8.73
Volume Purged	Liters	30	29	60	16
Purging Status	-	Finished Purging	Finished Purging	Purged Dry	Finished Purging
Physical Property	**Units**	**MW-23**	**MW-24**	**MW-24D**	**OW-1**
pH	SU	4.57	4.77	6.46	5.34
Temperature	°C	17.6	16.5	16.8	17.0
Conductivity	umhos/cm	25.5	98.2	51.6	165
Turbidity	NTU	786	>800	94.2	129
Appearance	-	Cloudy	Red	Cloudy	Cloudy
Odor	-	No Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	mg/L	632	1030	63	129

Property	Units	OW-3	CR-1	SW-2
Sampling Depth	Feet	29.20	-	-
Static Depth	Feet	29.20	-	-
Well Depth	Feet	30.90	-	-
Water Column Height	Feet	1.70	-	-
Volume Purged	Liters	0	-	-
Purging Status	-	0	-	-
Physical Property	**Units**	**OW-3**	**CR-1**	**SW-2**
pH	SU	5.20	7.24	7.49
Temperature	°C	17.2	17.1	17.4
Conductivity	umhos/cm	45.6	194	244
Turbidity	NTU	72.6	1.80	1.80
Appearance	-	Cloudy	Clear	Clear
Odor	-	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	mg/L	99	<5	<5

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 09:26 | Weather Conditions: Clear 63 °F

Static Depth (Depth to Water)	13.84	(Ft)	Volume	9.12 (Liters)
Well Depth	29.60	(Ft)	3 Volumes	27.37 (Liters)
Water Column Height	15.76	(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)
09:28	6.58	2,540	17.1	129.0	1
09:30	6.53	2,710	16.1	199.0	5
09:32	6.53	2,940	16.0	86.6	10
09:34	6.54	2,970	16.1	150.0	15
09:36	6.54	3,070	15.9	373.0	20
09:38	6.53	3,130	16.0	53.7	25
09:39		Finished Purging			28

SAMPLING DATA

Date: 9/17/2013 | Time: 09:45

Method: Teflon Bailer | Sampling Depth: 16.50'

pH: 6.40 ***(SU)*** | Conductivity: 3480 ***(umhos/cm)***

Temperature: 16.3 ***(^{o} C)*** | Turbidity: 33.8 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 07:46 | Weather Conditions: Cloudy 60 °F

Static Depth (Depth to Water)	28.10	(Ft)	Volume	7.12 (Liters)
Well Depth	40.40	(Ft)	3 Volumes	21.36 (Liters)
Water Column Height	12.30	(Ft)	Volume Purged	14.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
07:48	5.27	69.0	16.7	10.6	1
07:49	5.27	69.7	16.8	49.0	4
07:51	5.28	70.4	16.8	45.7	8
07:53	5.48	78.9	16.8	207.0	12
07:54		Purged Dry			14

SAMPLING DATA

Date: 9/17/2013 | Time: 08:10

Method: Teflon Bailer | Sampling Depth: 29.56'

pH: 5.23 ***(SU)*** | Conductivity: 59.3 ***(umhos/cm)***

Temperature: 16.9 ***(^{o} C)*** | Turbidity: 66.9 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 08:46 | Weather Conditions: Cloudy 61 °F

Static Depth (Depth to Water)	35.72	(Ft)	Volume	5.73 (Liters)
Well Depth	45.63	(Ft)	3 Volumes	17.21 (Liters)
Water Column Height	9.91	(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)

SAMPLING DATA

Date: 9/17/2013 | Time: 08:48

Method: Teflon Bailer | Sampling Depth: 35.72'

pH: 5.48 ***(SU)*** | Conductivity: 1281 ***(umhos/cm)***

Temperature: 17.0 ***(^{o} C)*** | Turbidity: 31.06 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 08:58 | Weather Conditions: Cloudy 62 °F

Static Depth (Depth to Water)	35.22	(Ft)	Volume	7.99 (Liters)
Well Depth	49.02	(Ft)	3 Volumes	23.97 (Liters)
Water Column Height	13.80	(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)
09:00	6.41	1,423	16.9	1.15	1
09:01	6.54	1,408	16.9	18.39	5
09:03	6.55	1,445	16.9	21.00	10
09:05	6.56	1,452	16.9	20.10	15
09:07	6.57	1,451	16.9	26.60	20
09:09	6.54	1,451	16.9	48.90	25
09:09		Finished Purging			25

SAMPLING DATA

Date: 9/17/2013 | Time: 09:11

Method: Teflon Bailer | Sampling Depth: 39.00'

pH: 6.58 ***(SU)*** | Conductivity: 48.9 ***(umhos/cm)***

Temperature: 16.9 ***(^{o} C)*** | Turbidity: 48.9 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 09:15 | Weather Conditions: Clear 62 °F

Static Depth (Depth to Water)	32.35	(Ft)	Volume	4.77 (Liters)
Well Depth	87.78	(Ft)	3 Volumes	14.32 (Liters)
Water Column Height	55.26	(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)

SAMPLING DATA

Date: 9/17/2013 | Time: 09:17

Method: Teflon Bailer | Sampling Depth: 32.35'

pH: 6.53 ***(SU)*** | Conductivity: 295 ***(umhos/cm)***

Temperature: 17.1 ***(^{o} C)*** | Turbidity: 6.72 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 08:23 | Weather Conditions: Cloudy 61 °F

Static Depth (Depth to Water)	16.82	(Ft)	Volume	11.17 (Liters)
Well Depth	36.12	(Ft)	3 Volumes	33.52 (Liters)
Water Column Height	19.30	(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)
08:25	6.54	144.5	16.2	6.32	1
08:27	6.58	144.0	15.6	26.30	7
08:29	6.52	147.0	15.4	22.30	14
08:31	6.48	148.0	15.4	59.20	21
08:33	6.44	146.8	15.4	64.40	28
08:35	6.38	145.4	15.4	56.90	35
08:35		Finished Purging			35

SAMPLING DATA

Date: 9/17/2013 | Time: 08:37

Method: Teflon Bailer | Sampling Depth: 21.75'

pH: 6.40 ***(SU)*** | Conductivity: 146.1 ***(umhos/cm)***

Temperature: 15.4 ***(^{o} C)*** | Turbidity: 66.4 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 11:15 | Weather Conditions: Clear 68 °F

Static Depth (Depth to Water)	17.59	(Ft)	Volume	35.38 (Liters)
Well Depth	78.70	(Ft)	3 Volumes	106.14 (Liters)
Water Column Height	61.11	(Ft)	Volume Purged	108.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
11:17	7.24	234	17.1	1.04	1
11:20	6.97	235	16.6	7.78	20
11:24	6.76	237	16.3	8.26	40
11:29	6.76	238	16.3	12.46	60
11:34	6.76	237	16.3	13.11	80
11:39	6.76	237	16.4	13.71	100
11:41		Finished Purging			108

SAMPLING DATA

Date: 9/17/2013 | Time: 11:46

Method: Teflon Bailer | Sampling Depth: 17.95'

pH: 6.77 Dup 6.76 ***(SU)*** | Conductivity: 236 Dup 235 ***(umhos/cm)***

Temperature: 17.3 Dup 17.1 ***(^{o} C)*** | Turbidity: 5.51 Dup 5.54 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 15:37 | Weather Conditions: Cloudy 72 °F

Static Depth (Depth to Water)	28.47	(Ft)	Volume	3.46 (Liters)
Well Depth	34.45	(Ft)	3 Volumes	10.38 (Liters)
Water Column Height	5.98	(Ft)	Volume Purged	11.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
15:40	5.66	333	17.0	13.6	1
15:41	5.89	483	16.7	111.0	3
15:42	5.98	539	16.7	225.0	5
15:43	6.07	567	16.6	185.0	7
15:44	6.10	569	16.7	103.0	9
15:45		Finished Purging			11

SAMPLING DATA

Date: 9/17/2013 | Time: 15:48

Method: Teflon Bailer | Sampling Depth: 31.53'

pH: 6.01 ***(SU)*** | Conductivity: 545 ***(umhos/cm)***

Temperature: 17.0 ***(^{o} C)*** | Turbidity: 42.3 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 15:00 | Weather Conditions: Cloudy 74 °F

Static Depth (Depth to Water)	29.44	(Ft)	Volume	32.49 (Liters)
Well Depth	85.56	(Ft)	3 Volumes	97.48 (Liters)
Water Column Height	56.12	(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)
15:04	6.38	70.8	17.3	2.21	1
15:12	6.32	71.0	16.5	7.18	20
15:17	6.30	70.9	17.1	13.32	40
15:22	6.28	70.5	16.4	11.88	60
15:27	6.27	70.3	16.3	7.44	80
15:32	6.28	70.2	16.4	7.92	100
15:32		Finished Purging			100

SAMPLING DATA

Date: 9/17/2013 | Time: 15:35

Method: Teflon Bailer | Sampling Depth: 38.50'

pH: 6.26 ***(SU)*** | Conductivity: 70.4 ***(umhos/cm)***

Temperature: 16.5 ***(^{o} C)*** | Turbidity: 8.86 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 14:13 | Weather Conditions: Clear 75 °F

Static Depth (Depth to Water)	18.82	(Ft)	Volume	8.66 (Liters)
Well Depth	33.78	(Ft)	3 Volumes	25.98 (Liters)
Water Column Height	14.96	(Ft)	Volume Purged	27.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
14:15	4.58	48.0	17.1	1.55	1
14:17	4.51	64.6	16.5	106.0	5
14:18	4.56	47.2	16.3	52.0	10
14:20	4.57	45.8	16.3	55.0	15
14:21	4.59	45.1	16.3	75.9	20
14:22	4.61	44.1	16.4	176.0	25
14:23		Finished Purging			27

SAMPLING DATA

Date: 9/17/2013 | Time: 14:25

Method: Teflon Bailer | Sampling Depth: 26.46'

pH: 4.58 ***(SU)*** | Conductivity: 48.4 ***(umhos/cm)***

Temperature: 16.6 ***(^{o} C)*** | Turbidity: 177 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 10:50 | Weather Conditions: Clear 66 °F

Static Depth (Depth to Water)	8.46	(Ft)	Volume	6.91 (Liters)
Well Depth	20.40	(Ft)	3 Volumes	20.73 (Liters)
Water Column Height	11.94	(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)
10:55	6.27	449.0	17.4	5.68	1
10:56	6.21	469.0	16.3	121.0	4
10:57	6.20	472.0	16.1	80.4	8
10:58	6.19	469.0	15.8	105.0	12
10:59	6.19	462.0	15.8	161.0	16
11:00	6.18	445.0	15.7	113.0	20
11:01		Finished Purging			22

SAMPLING DATA

Date: 9/17/2013 | Time: 11:05

Method: Teflon Bailer | Sampling Depth: 12.10'

pH: 6.16 ***(SU)*** | Conductivity: 418 ***(umhos/cm)***

Temperature: 15.7 ***(^{o} C)*** | Turbidity: 99.4 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 09:58 | Weather Conditions: Clear 65 °F

Static Depth (Depth to Water)	5.11	(Ft)	Volume	44.34 (Liters)
Well Depth	81.70	(Ft)	3 Volumes	133.03 (Liters)
Water Column Height	76.59	(Ft)	Volume Purged	134.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
10:04	7.46	288.0	18.9	1.55	1
10:07	7.44	280.0	15.6	0.78	24
10:12	7.49	311.0	15.4	1.45	48
10:17	7.36	326.0	15.6	1.25	72
10:22	7.40	295.0	15.6	0.85	96
10:29	7.36	289.0	15.5	8.55	120
10:34		Finished Purging			134

SAMPLING DATA

Date: 9/17/2013 | Time: 10:40

Method: Teflon Bailer | Sampling Depth: 49.00'

pH: 7.33 Dup 7.35 ***(SU)*** | Conductivity: 273 Dup 276 ***(umhos/cm)***

Temperature: 16.2 Dup 16.2 ***(^{o} C)*** | Turbidity: 1.35 Dup 1.34 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 12:25 | Weather Conditions: Clear 75 °F

Static Depth (Depth to Water)	29.10	(Ft)	Volume	32.25 (Liters)
Well Depth	84.80	(Ft)	3 Volumes	96.75 (Liters)
Water Column Height	55.70	(Ft)	Volume Purged	38.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
12:33	5.67	175.3	16.9	0.87	1
12:36	5.73	252.0	16.4	9.21	15
12:41	5.77	253.0	16.5	23.2	30
12:44		Purged Dry			38

SAMPLING DATA

Date: 9/17/2013 | Time: 14:05

Method: Teflon Bailer | Sampling Depth: 48.25'

pH: 5.40 ***(SU)*** | Conductivity: 155 ***(umhos/cm)***

Temperature: 17.4 ***(^{o} C)*** | Turbidity: 8.25 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 13:20 | Weather Conditions: Clear 75 °F

Static Depth (Depth to Water)	21.16	(Ft)	Volume	28.16 (Liters)
Well Depth	69.80	(Ft)	3 Volumes	84.48 (Liters)
Water Column Height	48.64	(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)

SAMPLING DATA

Date: 9/17/2013 | Time: 13:25

Method: Disposable Bailer | Sampling Depth: 21.16'

pH: 8.80 ***(SU)*** | Conductivity: 91.8 ***(umhos/cm)***

Temperature: 18.5 ***(^{o} C)*** | Turbidity: 5.41 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 07:15 | Weather Conditions: Cloudy 60 °F

Static Depth (Depth to Water)	17.30	(Ft)	Volume	9.73 (Liters)
Well Depth	34.11	(Ft)	3 Volumes	29.19 (Liters)
Water Column Height	16.81	(Ft)	Volume Purged	30.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
07:27	4.62	30.3	18.2	1.71	1
07:28	4.57	25.9	17.8	46.20	5
07:29	4.57	26.7	17.7	304.00	10
07:31	4.56	25.6	17.7	540.00	15
07:32	4.56	25.9	17.7	749.00	20
07:34	4.62	26.3	17.7	>800	25
07:35		Finished Purging			30

SAMPLING DATA

Date: 9/17/2013 | Time: 07:37

Method: Teflon Bailer | Sampling Depth: 24.10'

pH: 4.57 ***(SU)*** | Conductivity: 25.5 ***(umhos/cm)***

Temperature: 17.6 ***(^{o} C)*** | Turbidity: 786 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 13:37 | Weather Conditions: Clear 75 °F

Static Depth (Depth to Water)	20.30	(Ft)	Volume	9.43 (Liters)
Well Depth	36.60	(Ft)	3 Volumes	28.31 (Liters)
Water Column Height	16.30	(Ft)	Volume Purged	29.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
13:39	5.23	94.5	17.3	14.21	1
13:41	4.81	101.7	16.2	301.0	5
13:43	4.71	105.3	15.9	715.0	10
13:45	4.79	102.7	15.7	>800	15
13:47	4.70	102.0	15.7	>800	20
13:49	4.71	98.6	15.8	>800	25
13:50		Finished Purging			29

SAMPLING DATA

Date: 9/17/2013 | Time: 13:55

Method: Teflon Bailer | Sampling Depth: 25.25'

pH: 4.77 ***(SU)*** | Conductivity: 98.2 ***(umhos/cm)***

Temperature: 16.5 ***(^{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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 12:53 | Weather Conditions: Clear 75 °F

Static Depth (Depth to Water)	23.54	(Ft)	Volume	36.34 (Liters)
Well Depth	86.32	(Ft)	3 Volumes	109.04 (Liters)
Water Column Height	62.78	(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)
12:58	6.76	49.5	16.6	2.72	1
13:02	6.39	47.4	16.0	8.47	20
13:08	6.35	49.1	15.9	171.0	40
13:16	6.36	49.2	16.1	>800	60
13:16		Purged Dry			60

SAMPLING DATA

Date: 9/17/2013 | Time: 13:34

Method: Teflon Bailer | Sampling Depth: 70.90'

pH: 6.46 ***(SU)*** | Conductivity: 51.6 ***(umhos/cm)***

Temperature: 16.8 ***(^{o} C)*** | Turbidity: 94.2 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | 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: 9/17/2013 14:43 | Weather Conditions: Cloudy 75 °F

Static Depth (Depth to Water)	27.73	(Ft)	Volume	5.05 (Liters)
Well Depth	36.46	(Ft)	3 Volumes	15.16 (Liters)
Water Column Height	8.73	(Ft)	Volume Purged	16.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
14:45	5.26	172.6	17.3	2.7	1
14:47	5.34	181.3	16.8	112.0	4
14:48	5.45	189.9	16.7	356.0	8
14:50	5.35	175.2	16.6	>800	12
14:52	5.34	166.4	16.6	473.0	16
14:52		Finished Purging			16

SAMPLING DATA

Date: 9/17/2013 | Time: 14:56

Method: Teflon Bailer | Sampling Depth: 30.06'

pH: 5.34 ***(SU)*** | Conductivity: 165.4 ***(umhos/cm)***

Temperature: 17.0 ***(^oC)*** | Turbidity: 129 ***(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: 9/17/2013

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 2nd Semi 2013 | Well #: OW-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: 9/17/2013 14:33 | Weather Conditions: Clear 75 °F

Static Depth (Depth to Water)	29.20	(Ft)	Volume	0.98 (Liters)
Well Depth	30.90	(Ft)	3 Volumes	2.95 (Liters)
Water Column Height	1.70	(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)

SAMPLING DATA

Date: 9/17/2013 | Time: 14:36

Method: Teflon Bailer | Sampling Depth: 29.20'

pH: 5.20 ***(SU)*** | Conductivity: 45.6 ***(umhos/cm)***

Temperature: 17.2 ***(^{o} C)*** | Turbidity: 72.6 ***(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: 9/17/2013

Surface Water Sampling Log

REI Consultants, Inc.

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

Outlet:	SW-2		
Date:	9/17/2013	Time:	10:35
pH:	7.49	Conductivity:	244 ***umhos/cm***
Flow:	N/A	Temperature:	17.4 ***^{o}C***
Sample Odor and Physical Appearance:	Clear / No Odor		
Comments:	Turbidity = 1.8 NTU		

Outlet:	CR-1		
Date:	9/17/2013	Time:	10:15
pH:	7.24	Conductivity:	193.5 ***umhos/cm***
Flow:	N/A	Temperature:	17.1 ***^{o}C***
Sample Odor and Physical Appearance:	Clear / No Odor		
Comments:	Turbidity = 1.8 NTU		

Outlet:			
Date:		Time:	
pH:		Conductivity:	***umhos/cm***
Flow:		Temperature:	***^{o}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

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: 304.255.2500
Website: www.reiclabs.com

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

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

101 17th Street
Ashland, KY 41101
TEL: 606.393.5027

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

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Thursday, October 03, 2013

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

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

RE: NEWTON

Work Order #: 1309L87

Dear Mr. Rodney Hamby:

REI Consultants, Inc. received 24 sample(s) on 9/20/2013 for the analyses presented in the following report.

Sincerely,

Michelle Ellison

Michelle Ellison

REI Consultants, Inc. - Case Narrative

WO#: 1309L87

Date Reported: 10/3/2013

Client: COUNTY OF CATAWBA

Project: NEWTON

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

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

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP (and/or VELAP) requirements for parameters except as noted in this report.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

This report may not be reproduced, except in full, without the written approval of REIC.

DEFINITIONS:
MCL: Maximum Contaminant Level
MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.
Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).
NA: Not Applicable
ND: Not Detected at the PQL or MDL
PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.
Qual: Qualifier that applies to the analyte reported.
TIC: Tentatively Identified Compound, Estimated Concentration
Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:
X: Reported value exceeds required MCL
B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be consider estimated.
H: Holding time for preparation or analysis has been exceeded.
J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:
Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, TNDEQ TN02926, NCDWQ 466, PADEP 68-00839, VADCLS (VELAP) 460148
Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460149, PADEP 68-00839
Roanoke, VA: VADCLS(VELAP) 460150
Verona, VA: VADCLS(VELAP) 460151
Ashland, KY: KYDEP 00094, WVDEP 389
Morgantown, WV: WVDHHR 003112M, WVDEP 387

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 9:45:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-01A	**Matrix:**	Liquid
Client Sample ID:	MW-1	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	0.0040	0.0010	0.0100	NA	J	mg/L	9/30/2013 5:15 PM
Lead	ND	0.0002	0.0100	NA		mg/L	9/30/2013 5:15 PM
Nickel	0.0585	0.0020	0.0500	NA		mg/L	9/30/2013 5:15 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	8,340	488	10,000	NA	J	µg/L	9/25/2013 7:05 AM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/24/2013 12:14 AM
Benzene	14.1	0.129	1.00	NA		µg/L	9/24/2013 12:14 AM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/24/2013 12:14 AM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/24/2013 12:14 AM
Bromoform	ND	0.400	3.00	NA		µg/L	9/24/2013 12:14 AM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/24/2013 12:14 AM
2-Butanone	10,200	468	10,000	NA		µg/L	9/25/2013 7:05 AM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/24/2013 12:14 AM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/24/2013 12:14 AM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/24/2013 12:14 AM
Chloroethane	221	9.42	100	NA		µg/L	9/25/2013 2:57 AM
Chloroform	ND	0.253	5.00	NA		µg/L	9/24/2013 12:14 AM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/24/2013 12:14 AM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/24/2013 12:14 AM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/24/2013 12:14 AM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/24/2013 12:14 AM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/24/2013 12:14 AM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/24/2013 12:14 AM
1,4-Dichlorobenzene	2.03	0.287	1.00	NA		µg/L	9/24/2013 12:14 AM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/24/2013 12:14 AM
1,1-Dichloroethane	211	3.83	50.0	NA		µg/L	9/25/2013 2:57 AM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/24/2013 12:14 AM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/24/2013 12:14 AM
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	9/24/2013 12:14 AM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/24/2013 12:14 AM
1,2-Dichloropropane	7.51	0.461	1.00	NA		µg/L	9/24/2013 12:14 AM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/24/2013 12:14 AM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/24/2013 12:14 AM
Ethylbenzene	24.7	1.78	10.0	NA		µg/L	9/25/2013 2:57 AM
2-Hexanone	198	4.11	50.0	NA		µg/L	9/24/2013 12:14 AM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/24/2013 12:14 AM
Methylene chloride	30.1	5.39	10.0	NA		µg/L	9/25/2013 2:57 AM
4-Methyl-2-pentanone	1,450	44.0	1,000	NA		µg/L	9/25/2013 2:57 AM
Styrene	ND	0.240	1.00	NA		µg/L	9/24/2013 12:14 AM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 9:45:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-01A	**Matrix:**	Liquid
Client Sample ID:	MW-1	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/24/2013 12:14 AM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/24/2013 12:14 AM
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	9/24/2013 12:14 AM
Toluene	254	16.7	100	NA		µg/L	9/25/2013 7:05 AM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/24/2013 12:14 AM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/24/2013 12:14 AM
Trichloroethene	ND	0.302	1.00	NA		µg/L	9/24/2013 12:14 AM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/24/2013 12:14 AM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/24/2013 12:14 AM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/24/2013 12:14 AM
Vinyl chloride	16.9	0.223	1.00	NA		µg/L	9/24/2013 12:14 AM
o-Xylene	16.8	0.186	1.00	NA		µg/L	9/24/2013 12:14 AM
m,p-Xylene	26.9	0.287	2.00	NA		µg/L	9/24/2013 12:14 AM
Surr: 1,2-Dichloroethane-d4	88.5	NA	68.7-129	NA		%REC	9/24/2013 12:14 AM
Surr: 4-Bromofluorobenzene	102	NA	71.8-127	NA		%REC	9/24/2013 12:14 AM
Surr: Dibromofluoromethane	112	NA	74.3-124	NA		%REC	9/24/2013 12:14 AM
Surr: Toluene-d8	99.1	NA	71.4-129	NA		%REC	9/24/2013 12:14 AM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	68.0	2.0	10	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 8:10:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-02A	**Matrix:**	Liquid
Client Sample ID:	MW-3	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	ND	0.0010	0.0100	NA		mg/L	9/30/2013 5:32 PM
Lead	0.0046	0.0002	0.0100	NA	J	mg/L	9/30/2013 5:32 PM
Nickel	0.0057	0.0020	0.0500	NA	J	mg/L	9/30/2013 5:32 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	83.4	4.88	100	NA	J	µg/L	9/24/2013 12:47 AM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/24/2013 12:47 AM
Benzene	1.45	0.129	1.00	NA		µg/L	9/24/2013 12:47 AM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/24/2013 12:47 AM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/24/2013 12:47 AM
Bromoform	ND	0.400	3.00	NA		µg/L	9/24/2013 12:47 AM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/24/2013 12:47 AM
2-Butanone	47.5	4.68	100	NA	J	µg/L	9/24/2013 12:47 AM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/24/2013 12:47 AM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/24/2013 12:47 AM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/24/2013 12:47 AM
Chloroethane	2.02	0.942	10.0	NA	J	µg/L	9/24/2013 12:47 AM
Chloroform	ND	0.253	5.00	NA		µg/L	9/24/2013 12:47 AM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/24/2013 12:47 AM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/24/2013 12:47 AM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/24/2013 12:47 AM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/24/2013 12:47 AM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/24/2013 12:47 AM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/24/2013 12:47 AM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/24/2013 12:47 AM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/24/2013 12:47 AM
1,1-Dichloroethane	36.0	3.83	50.0	NA	J	µg/L	9/25/2013 3:33 AM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/24/2013 12:47 AM
1,1-Dichloroethene	3.47	0.328	5.00	NA	J	µg/L	9/24/2013 12:47 AM
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	9/24/2013 12:47 AM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/24/2013 12:47 AM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/24/2013 12:47 AM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/24/2013 12:47 AM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/24/2013 12:47 AM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/24/2013 12:47 AM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/24/2013 12:47 AM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/24/2013 12:47 AM
Methylene chloride	4.67	0.539	1.00	NA		µg/L	9/24/2013 12:47 AM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/24/2013 12:47 AM
Styrene	ND	0.240	1.00	NA		µg/L	9/24/2013 12:47 AM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 8:10:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-02A	**Matrix:**	Liquid
Client Sample ID:	MW-3	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/24/2013 12:47 AM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/24/2013 12:47 AM
Tetrachloroethene	3.20	0.196	1.00	NA		µg/L	9/24/2013 12:47 AM
Toluene	ND	0.167	1.00	NA		µg/L	9/24/2013 12:47 AM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/24/2013 12:47 AM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/24/2013 12:47 AM
Trichloroethene	4.22	0.302	1.00	NA		µg/L	9/24/2013 12:47 AM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/24/2013 12:47 AM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/24/2013 12:47 AM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/24/2013 12:47 AM
Vinyl chloride	ND	0.223	1.00	NA		µg/L	9/24/2013 12:47 AM
o-Xylene	0.970	0.186	1.00	NA	J	µg/L	9/24/2013 12:47 AM
m,p-Xylene	8.48	0.287	2.00	NA		µg/L	9/24/2013 12:47 AM
Surr: 1,2-Dichloroethane-d4	85.4	NA	68.7-129	NA		%REC	9/24/2013 12:47 AM
Surr: 4-Bromofluorobenzene	105	NA	71.8-127	NA		%REC	9/24/2013 12:47 AM
Surr: Dibromofluoromethane	108	NA	74.3-124	NA		%REC	9/24/2013 12:47 AM
Surr: Toluene-d8	99.6	NA	71.4-129	NA		%REC	9/24/2013 12:47 AM

TOTAL SUSPENDED SOLIDS **Method: SM2540 D** **Analyst: SF**

Total Suspended Solids	11.0	2.0	10	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 8:48:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-03A	**Matrix:**	Liquid
Client Sample ID:	MW-9	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	0.0193	0.0010	0.0100	NA		mg/L	9/30/2013 5:37 PM
Lead	0.0037	0.0002	0.0100	NA	J	mg/L	9/30/2013 5:37 PM
Nickel	0.304	0.0020	0.0500	NA		mg/L	9/30/2013 5:37 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/24/2013 1:20 AM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/24/2013 1:20 AM
Benzene	18.2	0.129	1.00	NA		µg/L	9/24/2013 1:20 AM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/24/2013 1:20 AM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/24/2013 1:20 AM
Bromoform	ND	0.400	3.00	NA		µg/L	9/24/2013 1:20 AM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/24/2013 1:20 AM
2-Butanone	ND	4.68	100	NA		µg/L	9/24/2013 1:20 AM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/24/2013 1:20 AM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/24/2013 1:20 AM
Chlorobenzene	1.73	0.177	3.00	NA	J	µg/L	9/24/2013 1:20 AM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/24/2013 1:20 AM
Chloroform	ND	0.253	5.00	NA		µg/L	9/24/2013 1:20 AM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/24/2013 1:20 AM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/24/2013 1:20 AM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/24/2013 1:20 AM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/24/2013 1:20 AM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/24/2013 1:20 AM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/24/2013 1:20 AM
1,4-Dichlorobenzene	9.55	0.287	1.00	NA		µg/L	9/24/2013 1:20 AM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/24/2013 1:20 AM
1,1-Dichloroethane	268	19.2	250	NA		µg/L	9/25/2013 5:55 AM
1,2-Dichloroethane	117	4.28	10.0	NA		µg/L	9/25/2013 4:09 AM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/24/2013 1:20 AM
cis-1,2-Dichloroethene	366	11.3	250	NA		µg/L	9/25/2013 5:55 AM
trans-1,2-Dichloroethene	1.43	0.392	5.00	NA	J	µg/L	9/24/2013 1:20 AM
1,2-Dichloropropane	22.9	0.461	1.00	NA		µg/L	9/24/2013 1:20 AM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/24/2013 1:20 AM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/24/2013 1:20 AM
Ethylbenzene	13.0	0.178	1.00	NA		µg/L	9/24/2013 1:20 AM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/24/2013 1:20 AM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/24/2013 1:20 AM
Methylene chloride	4.89	0.539	1.00	NA		µg/L	9/24/2013 1:20 AM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/24/2013 1:20 AM
Styrene	ND	0.240	1.00	NA		µg/L	9/24/2013 1:20 AM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 8:48:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-03A	**Matrix:**	Liquid
Client Sample ID:	MW-9	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/24/2013 1:20 AM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/24/2013 1:20 AM
Tetrachloroethene	1.31	0.196	1.00	NA		µg/L	9/24/2013 1:20 AM
Toluene	5.56	0.167	1.00	NA		µg/L	9/24/2013 1:20 AM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/24/2013 1:20 AM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/24/2013 1:20 AM
Trichloroethene	1.95	0.302	1.00	NA		µg/L	9/24/2013 1:20 AM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/24/2013 1:20 AM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/24/2013 1:20 AM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/24/2013 1:20 AM
Vinyl chloride	93.2	2.23	10.0	NA		µg/L	9/25/2013 4:09 AM
o-Xylene	26.7	1.86	10.0	NA		µg/L	9/25/2013 4:09 AM
m,p-Xylene	56.7	2.87	20.0	NA		µg/L	9/25/2013 4:09 AM
Surr: 1,2-Dichloroethane-d4	79.8	NA	68.7-129	NA		%REC	9/24/2013 1:20 AM
Surr: 4-Bromofluorobenzene	101	NA	71.8-127	NA		%REC	9/24/2013 1:20 AM
Surr: Dibromofluoromethane	109	NA	74.3-124	NA		%REC	9/24/2013 1:20 AM
Surr: Toluene-d8	97.3	NA	71.4-129	NA		%REC	9/24/2013 1:20 AM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	1,500	2.0	10	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 9:17:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-04A	**Matrix:**	Liquid
Client Sample ID:	MW-10A	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	0.0025	0.0010	0.0100	NA	J	mg/L	9/30/2013 5:54 PM
Lead	0.0018	0.0002	0.0100	NA	J	mg/L	9/30/2013 5:54 PM
Nickel	0.0073	0.0020	0.0500	NA	J	mg/L	9/30/2013 5:54 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	58.9	4.88	100	NA	J	µg/L	9/24/2013 1:53 AM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/24/2013 1:53 AM
Benzene	5.54	0.129	1.00	NA		µg/L	9/24/2013 1:53 AM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/24/2013 1:53 AM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/24/2013 1:53 AM
Bromoform	ND	0.400	3.00	NA		µg/L	9/24/2013 1:53 AM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/24/2013 1:53 AM
2-Butanone	30.6	4.68	100	NA	J	µg/L	9/24/2013 1:53 AM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/24/2013 1:53 AM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/24/2013 1:53 AM
Chlorobenzene	1.15	0.177	3.00	NA	J	µg/L	9/24/2013 1:53 AM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/24/2013 1:53 AM
Chloroform	ND	0.253	5.00	NA		µg/L	9/24/2013 1:53 AM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/24/2013 1:53 AM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/24/2013 1:53 AM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/24/2013 1:53 AM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/24/2013 1:53 AM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/24/2013 1:53 AM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/24/2013 1:53 AM
1,4-Dichlorobenzene	6.19	0.287	1.00	NA		µg/L	9/24/2013 1:53 AM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/24/2013 1:53 AM
1,1-Dichloroethane	214	3.83	50.0	NA		µg/L	9/25/2013 4:44 AM
1,2-Dichloroethane	5.71	0.428	1.00	NA		µg/L	9/24/2013 1:53 AM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/24/2013 1:53 AM
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	9/24/2013 1:53 AM
trans-1,2-Dichloroethene	0.500	0.392	5.00	NA	J	µg/L	9/24/2013 1:53 AM
1,2-Dichloropropane	4.57	0.461	1.00	NA		µg/L	9/24/2013 1:53 AM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/24/2013 1:53 AM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/24/2013 1:53 AM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/24/2013 1:53 AM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/24/2013 1:53 AM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/24/2013 1:53 AM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/24/2013 1:53 AM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/24/2013 1:53 AM
Styrene	ND	0.240	1.00	NA		µg/L	9/24/2013 1:53 AM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 9:17:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-04A	**Matrix:**	Liquid
Client Sample ID:	MW-10A	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/24/2013 1:53 AM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/24/2013 1:53 AM
Tetrachloroethene	0.520	0.196	1.00	NA	J	µg/L	9/24/2013 1:53 AM
Toluene	4.32	0.167	1.00	NA		µg/L	9/24/2013 1:53 AM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/24/2013 1:53 AM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/24/2013 1:53 AM
Trichloroethene	ND	0.302	1.00	NA		µg/L	9/24/2013 1:53 AM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/24/2013 1:53 AM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/24/2013 1:53 AM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/24/2013 1:53 AM
Vinyl chloride	ND	0.223	1.00	NA		µg/L	9/24/2013 1:53 AM
o-Xylene	0.800	0.186	1.00	NA	J	µg/L	9/24/2013 1:53 AM
m,p-Xylene	1.41	0.287	2.00	NA	J	µg/L	9/24/2013 1:53 AM
Surr: 1,2-Dichloroethane-d4	99.3	NA	68.7-129	NA		%REC	9/24/2013 1:53 AM
Surr: 4-Bromofluorobenzene	104	NA	71.8-127	NA		%REC	9/24/2013 1:53 AM
Surr: Dibromofluoromethane	115	NA	74.3-124	NA		%REC	9/24/2013 1:53 AM
Surr: Toluene-d8	101	NA	71.4-129	NA		%REC	9/24/2013 1:53 AM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	54.0	2.0	10	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 9:17:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-05A	**Matrix:**	Liquid
Client Sample ID:	MW-10B	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	ND	0.0010	0.0100	NA		mg/L	9/30/2013 5:59 PM
Lead	ND	0.0002	0.0100	NA		mg/L	9/30/2013 5:59 PM
Nickel	0.0024	0.0020	0.0500	NA	J	mg/L	9/30/2013 5:59 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/24/2013 2:26 AM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/24/2013 2:26 AM
Benzene	ND	0.129	1.00	NA		µg/L	9/24/2013 2:26 AM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/24/2013 2:26 AM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/24/2013 2:26 AM
Bromoform	ND	0.400	3.00	NA		µg/L	9/24/2013 2:26 AM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/24/2013 2:26 AM
2-Butanone	ND	4.68	100	NA		µg/L	9/24/2013 2:26 AM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/24/2013 2:26 AM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/24/2013 2:26 AM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/24/2013 2:26 AM
Chloroethane	22.3	0.942	10.0	NA		µg/L	9/24/2013 2:26 AM
Chloroform	ND	0.253	5.00	NA		µg/L	9/24/2013 2:26 AM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/24/2013 2:26 AM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/24/2013 2:26 AM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/24/2013 2:26 AM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/24/2013 2:26 AM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/24/2013 2:26 AM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/24/2013 2:26 AM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/24/2013 2:26 AM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/24/2013 2:26 AM
1,1-Dichloroethane	20.6	0.383	5.00	NA		µg/L	9/24/2013 2:26 AM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/24/2013 2:26 AM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/24/2013 2:26 AM
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	9/24/2013 2:26 AM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/24/2013 2:26 AM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/24/2013 2:26 AM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/24/2013 2:26 AM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/24/2013 2:26 AM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/24/2013 2:26 AM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/24/2013 2:26 AM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/24/2013 2:26 AM
Methylene chloride	0.610	0.539	1.00	NA	J	µg/L	9/24/2013 2:26 AM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/24/2013 2:26 AM
Styrene	ND	0.240	1.00	NA		µg/L	9/24/2013 2:26 AM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 9:17:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-05A	**Matrix:**	Liquid
Client Sample ID:	MW-10B	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/24/2013 2:26 AM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/24/2013 2:26 AM
Tetrachloroethene	0.530	0.196	1.00	NA	J	µg/L	9/24/2013 2:26 AM
Toluene	ND	0.167	1.00	NA		µg/L	9/24/2013 2:26 AM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/24/2013 2:26 AM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/24/2013 2:26 AM
Trichloroethene	0.630	0.302	1.00	NA	J	µg/L	9/24/2013 2:26 AM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/24/2013 2:26 AM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/24/2013 2:26 AM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/24/2013 2:26 AM
Vinyl chloride	9.64	0.223	1.00	NA		µg/L	9/24/2013 2:26 AM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/24/2013 2:26 AM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/24/2013 2:26 AM
Surr: 1,2-Dichloroethane-d4	98.7	NA	68.7-129	NA		%REC	9/24/2013 2:26 AM
Surr: 4-Bromofluorobenzene	107	NA	71.8-127	NA		%REC	9/24/2013 2:26 AM
Surr: Dibromofluoromethane	86.4	NA	74.3-124	NA		%REC	9/24/2013 2:26 AM
Surr: Toluene-d8	98.7	NA	71.4-129	NA		%REC	9/24/2013 2:26 AM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	13.0	2.0	10	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 8:37:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-06A	**Matrix:**	Liquid
Client Sample ID:	MW-11	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	0.0030	0.0010	0.0100	NA	J	mg/L	9/30/2013 6:05 PM
Lead	0.0009	0.0002	0.0100	NA	J	mg/L	9/30/2013 6:05 PM
Nickel	ND	0.0020	0.0500	NA		mg/L	9/30/2013 6:05 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/24/2013 2:59 AM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/24/2013 2:59 AM
Benzene	ND	0.129	1.00	NA		µg/L	9/24/2013 2:59 AM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/24/2013 2:59 AM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/24/2013 2:59 AM
Bromoform	ND	0.400	3.00	NA		µg/L	9/24/2013 2:59 AM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/24/2013 2:59 AM
2-Butanone	ND	4.68	100	NA		µg/L	9/24/2013 2:59 AM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/24/2013 2:59 AM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/24/2013 2:59 AM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/24/2013 2:59 AM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/24/2013 2:59 AM
Chloroform	ND	0.253	5.00	NA		µg/L	9/24/2013 2:59 AM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/24/2013 2:59 AM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/24/2013 2:59 AM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/24/2013 2:59 AM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/24/2013 2:59 AM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/24/2013 2:59 AM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/24/2013 2:59 AM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/24/2013 2:59 AM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/24/2013 2:59 AM
1,1-Dichloroethane	12.7	0.383	5.00	NA		µg/L	9/24/2013 2:59 AM
1,2-Dichloroethane	7.56	0.428	1.00	NA		µg/L	9/24/2013 2:59 AM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/24/2013 2:59 AM
cis-1,2-Dichloroethene	1.02	0.226	5.00	NA	J	µg/L	9/24/2013 2:59 AM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/24/2013 2:59 AM
1,2-Dichloropropane	1.02	0.461	1.00	NA		µg/L	9/24/2013 2:59 AM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/24/2013 2:59 AM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/24/2013 2:59 AM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/24/2013 2:59 AM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/24/2013 2:59 AM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/24/2013 2:59 AM
Methylene chloride	1.37	0.539	1.00	NA		µg/L	9/24/2013 2:59 AM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/24/2013 2:59 AM
Styrene	ND	0.240	1.00	NA		µg/L	9/24/2013 2:59 AM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 8:37:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-06A	**Matrix:**	Liquid
Client Sample ID:	MW-11	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/24/2013 2:59 AM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/24/2013 2:59 AM
Tetrachloroethene	1.73	0.196	1.00	NA		µg/L	9/24/2013 2:59 AM
Toluene	ND	0.167	1.00	NA		µg/L	9/24/2013 2:59 AM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/24/2013 2:59 AM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/24/2013 2:59 AM
Trichloroethene	1.39	0.302	1.00	NA		µg/L	9/24/2013 2:59 AM
Trichlorofluoromethane	13.6	0.299	1.00	NA		µg/L	9/24/2013 2:59 AM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/24/2013 2:59 AM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/24/2013 2:59 AM
Vinyl chloride	ND	0.223	1.00	NA		µg/L	9/24/2013 2:59 AM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/24/2013 2:59 AM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/24/2013 2:59 AM
Surr: 1,2-Dichloroethane-d4	82.0	NA	68.7-129	NA		%REC	9/24/2013 2:59 AM
Surr: 4-Bromofluorobenzene	113	NA	71.8-127	NA		%REC	9/24/2013 2:59 AM
Surr: Dibromofluoromethane	89.1	NA	74.3-124	NA		%REC	9/24/2013 2:59 AM
Surr: Toluene-d8	99.4	NA	71.4-129	NA		%REC	9/24/2013 2:59 AM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	68.0	2.0	10	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-07A	**Matrix:**	Liquid
Client Sample ID:	MW-13	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	ND	0.0010	0.0100	NA		mg/L	9/30/2013 6:10 PM
Lead	ND	0.0002	0.0100	NA		mg/L	9/30/2013 6:10 PM
Nickel	ND	0.0020	0.0500	NA		mg/L	9/30/2013 6:10 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/24/2013 3:32 AM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/24/2013 3:32 AM
Benzene	0.510	0.129	1.00	NA	J	µg/L	9/24/2013 3:32 AM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/24/2013 3:32 AM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/24/2013 3:32 AM
Bromoform	ND	0.400	3.00	NA		µg/L	9/24/2013 3:32 AM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/24/2013 3:32 AM
2-Butanone	ND	4.68	100	NA		µg/L	9/24/2013 3:32 AM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/24/2013 3:32 AM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/24/2013 3:32 AM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/24/2013 3:32 AM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/24/2013 3:32 AM
Chloroform	ND	0.253	5.00	NA		µg/L	9/24/2013 3:32 AM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/24/2013 3:32 AM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/24/2013 3:32 AM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/24/2013 3:32 AM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/24/2013 3:32 AM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/24/2013 3:32 AM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/24/2013 3:32 AM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/24/2013 3:32 AM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/24/2013 3:32 AM
1,1-Dichloroethane	45.5	3.83	50.0	NA	J	µg/L	9/25/2013 5:20 AM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/24/2013 3:32 AM
1,1-Dichloroethene	2.17	0.328	5.00	NA	J	µg/L	9/24/2013 3:32 AM
cis-1,2-Dichloroethene	47.6	2.26	50.0	NA	J	µg/L	9/25/2013 5:20 AM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/24/2013 3:32 AM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/24/2013 3:32 AM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/24/2013 3:32 AM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/24/2013 3:32 AM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/24/2013 3:32 AM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/24/2013 3:32 AM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/24/2013 3:32 AM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/24/2013 3:32 AM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/24/2013 3:32 AM
Styrene	ND	0.240	1.00	NA		µg/L	9/24/2013 3:32 AM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-07A	**Matrix:**	Liquid
Client Sample ID:	MW-13	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/24/2013 3:32 AM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/24/2013 3:32 AM
Tetrachloroethene	2.63	0.196	1.00	NA		µg/L	9/24/2013 3:32 AM
Toluene	ND	0.167	1.00	NA		µg/L	9/24/2013 3:32 AM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/24/2013 3:32 AM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/24/2013 3:32 AM
Trichloroethene	22.0	0.302	1.00	NA		µg/L	9/24/2013 3:32 AM
Trichlorofluoromethane	8.02	0.299	1.00	NA		µg/L	9/24/2013 3:32 AM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/24/2013 3:32 AM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/24/2013 3:32 AM
Vinyl chloride	5.74	0.223	1.00	NA		µg/L	9/24/2013 3:32 AM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/24/2013 3:32 AM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/24/2013 3:32 AM
Surr: 1,2-Dichloroethane-d4	86.9	NA	68.7-129	NA		%REC	9/24/2013 3:32 AM
Surr: 4-Bromofluorobenzene	107	NA	71.8-127	NA		%REC	9/24/2013 3:32 AM
Surr: Dibromofluoromethane	110	NA	74.3-124	NA		%REC	9/24/2013 3:32 AM
Surr: Toluene-d8	101	NA	71.4-129	NA		%REC	9/24/2013 3:32 AM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	12.7	1.4	7.0	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 3:48:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-08A	**Matrix:**	Liquid
Client Sample ID:	MW-14	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	ND	0.0010	0.0100	NA		mg/L	9/30/2013 6:15 PM
Lead	0.0006	0.0002	0.0100	NA	J	mg/L	9/30/2013 6:15 PM
Nickel	ND	0.0020	0.0500	NA		mg/L	9/30/2013 6:15 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/24/2013 4:05 AM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/24/2013 4:05 AM
Benzene	13.1	0.129	1.00	NA		µg/L	9/24/2013 4:05 AM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/24/2013 4:05 AM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/24/2013 4:05 AM
Bromoform	ND	0.400	3.00	NA		µg/L	9/24/2013 4:05 AM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/24/2013 4:05 AM
2-Butanone	ND	4.68	100	NA		µg/L	9/24/2013 4:05 AM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/24/2013 4:05 AM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/24/2013 4:05 AM
Chlorobenzene	8.00	0.177	3.00	NA		µg/L	9/24/2013 4:05 AM
Chloroethane	3.61	0.942	10.0	NA	J	µg/L	9/24/2013 4:05 AM
Chloroform	ND	0.253	5.00	NA		µg/L	9/24/2013 4:05 AM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/24/2013 4:05 AM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/24/2013 4:05 AM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/24/2013 4:05 AM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/24/2013 4:05 AM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/24/2013 4:05 AM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/24/2013 4:05 AM
1,4-Dichlorobenzene	23.2	0.287	1.00	NA		µg/L	9/24/2013 4:05 AM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/24/2013 4:05 AM
1,1-Dichloroethane	181	7.66	100	NA		µg/L	9/25/2013 6:30 AM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/24/2013 4:05 AM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/24/2013 4:05 AM
cis-1,2-Dichloroethene	251	4.52	100	NA		µg/L	9/25/2013 6:30 AM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/24/2013 4:05 AM
1,2-Dichloropropane	3.61	0.461	1.00	NA		µg/L	9/24/2013 4:05 AM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/24/2013 4:05 AM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/24/2013 4:05 AM
Ethylbenzene	4.76	0.178	1.00	NA		µg/L	9/24/2013 4:05 AM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/24/2013 4:05 AM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/24/2013 4:05 AM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/24/2013 4:05 AM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/24/2013 4:05 AM
Styrene	ND	0.240	1.00	NA		µg/L	9/24/2013 4:05 AM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 3:48:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-08A	**Matrix:**	Liquid
Client Sample ID:	MW-14	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/24/2013 4:05 AM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/24/2013 4:05 AM
Tetrachloroethene	3.73	0.196	1.00	NA		µg/L	9/24/2013 4:05 AM
Toluene	4.06	0.167	1.00	NA		µg/L	9/24/2013 4:05 AM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/24/2013 4:05 AM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/24/2013 4:05 AM
Trichloroethene	23.2	0.302	1.00	NA		µg/L	9/24/2013 4:05 AM
Trichlorofluoromethane	2.12	0.299	1.00	NA		µg/L	9/24/2013 4:05 AM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/24/2013 4:05 AM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/24/2013 4:05 AM
Vinyl chloride	28.6	4.46	20.0	NA		µg/L	9/25/2013 6:30 AM
o-Xylene	49.8	3.72	20.0	NA		µg/L	9/25/2013 6:30 AM
m,p-Xylene	184	5.74	40.0	NA		µg/L	9/25/2013 6:30 AM
Surr: 1,2-Dichloroethane-d4	91.3	NA	68.7-129	NA		%REC	9/24/2013 4:05 AM
Surr: 4-Bromofluorobenzene	105	NA	71.8-127	NA		%REC	9/24/2013 4:05 AM
Surr: Dibromofluoromethane	121	NA	74.3-124	NA		%REC	9/24/2013 4:05 AM
Surr: Toluene-d8	99.6	NA	71.4-129	NA		%REC	9/24/2013 4:05 AM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	27.0	2.0	10	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 2:25:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-09A	**Matrix:**	Liquid
Client Sample ID:	MW-14A	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	0.0038	0.0010	0.0100	NA	J	mg/L	9/30/2013 6:21 PM
Lead	0.0002	0.0002	0.0100	NA	J	mg/L	9/30/2013 6:21 PM
Nickel	ND	0.0020	0.0500	NA		mg/L	9/30/2013 6:21 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/24/2013 4:38 AM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/24/2013 4:38 AM
Benzene	ND	0.129	1.00	NA		µg/L	9/24/2013 4:38 AM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/24/2013 4:38 AM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/24/2013 4:38 AM
Bromoform	ND	0.400	3.00	NA		µg/L	9/24/2013 4:38 AM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/24/2013 4:38 AM
2-Butanone	ND	4.68	100	NA		µg/L	9/24/2013 4:38 AM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/24/2013 4:38 AM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/24/2013 4:38 AM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/24/2013 4:38 AM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/24/2013 4:38 AM
Chloroform	ND	0.253	5.00	NA		µg/L	9/24/2013 4:38 AM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/24/2013 4:38 AM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/24/2013 4:38 AM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/24/2013 4:38 AM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/24/2013 4:38 AM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/24/2013 4:38 AM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/24/2013 4:38 AM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/24/2013 4:38 AM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/24/2013 4:38 AM
1,1-Dichloroethane	3.54	0.383	5.00	NA	J	µg/L	9/24/2013 4:38 AM
1,2-Dichloroethane	1.44	0.428	1.00	NA		µg/L	9/24/2013 4:38 AM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/24/2013 4:38 AM
cis-1,2-Dichloroethene	3.35	0.226	5.00	NA	J	µg/L	9/24/2013 4:38 AM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/24/2013 4:38 AM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/24/2013 4:38 AM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/24/2013 4:38 AM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/24/2013 4:38 AM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/24/2013 4:38 AM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/24/2013 4:38 AM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/24/2013 4:38 AM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/24/2013 4:38 AM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/24/2013 4:38 AM
Styrene	ND	0.240	1.00	NA		µg/L	9/24/2013 4:38 AM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 2:25:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-09A	**Matrix:**	Liquid
Client Sample ID:	MW-14A	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/24/2013 4:38 AM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/24/2013 4:38 AM
Tetrachloroethene	22.1	0.196	1.00	NA		µg/L	9/24/2013 4:38 AM
Toluene	ND	0.167	1.00	NA		µg/L	9/24/2013 4:38 AM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/24/2013 4:38 AM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/24/2013 4:38 AM
Trichloroethene	6.68	0.302	1.00	NA		µg/L	9/24/2013 4:38 AM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/24/2013 4:38 AM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/24/2013 4:38 AM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/24/2013 4:38 AM
Vinyl chloride	ND	0.223	1.00	NA		µg/L	9/24/2013 4:38 AM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/24/2013 4:38 AM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/24/2013 4:38 AM
Surr: 1,2-Dichloroethane-d4	92.6	NA	68.7-129	NA		%REC	9/24/2013 4:38 AM
Surr: 4-Bromofluorobenzene	109	NA	71.8-127	NA		%REC	9/24/2013 4:38 AM
Surr: Dibromofluoromethane	113	NA	74.3-124	NA		%REC	9/24/2013 4:38 AM
Surr: Toluene-d8	99.5	NA	71.4-129	NA		%REC	9/24/2013 4:38 AM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	8.7	1.4	7.0	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 11:05:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-10A	**Matrix:**	Liquid
Client Sample ID:	MW-15	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	ND	0.0010	0.0100	NA		mg/L	9/30/2013 6:27 PM
Lead	0.0007	0.0002	0.0100	NA	J	mg/L	9/30/2013 6:27 PM
Nickel	0.0042	0.0020	0.0500	NA	J	mg/L	9/30/2013 6:27 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/24/2013 5:11 AM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/24/2013 5:11 AM
Benzene	10.1	0.129	1.00	NA		µg/L	9/24/2013 5:11 AM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/24/2013 5:11 AM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/24/2013 5:11 AM
Bromoform	ND	0.400	3.00	NA		µg/L	9/24/2013 5:11 AM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/24/2013 5:11 AM
2-Butanone	ND	4.68	100	NA		µg/L	9/24/2013 5:11 AM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/24/2013 5:11 AM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/24/2013 5:11 AM
Chlorobenzene	3.50	0.177	3.00	NA		µg/L	9/24/2013 5:11 AM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/24/2013 5:11 AM
Chloroform	ND	0.253	5.00	NA		µg/L	9/24/2013 5:11 AM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/24/2013 5:11 AM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/24/2013 5:11 AM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/24/2013 5:11 AM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/24/2013 5:11 AM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/24/2013 5:11 AM
1,2-Dichlorobenzene	0.580	0.450	5.00	NA	J	µg/L	9/24/2013 5:11 AM
1,4-Dichlorobenzene	3.71	0.287	1.00	NA		µg/L	9/24/2013 5:11 AM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/24/2013 5:11 AM
1,1-Dichloroethane	221	3.83	50.0	NA		µg/L	9/25/2013 1:47 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/24/2013 5:11 AM
1,1-Dichloroethene	1.09	0.328	5.00	NA	J	µg/L	9/24/2013 5:11 AM
cis-1,2-Dichloroethene	242	2.26	50.0	NA		µg/L	9/25/2013 1:47 PM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/24/2013 5:11 AM
1,2-Dichloropropane	1.01	0.461	1.00	NA		µg/L	9/24/2013 5:11 AM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/24/2013 5:11 AM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/24/2013 5:11 AM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/24/2013 5:11 AM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/24/2013 5:11 AM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/24/2013 5:11 AM
Methylene chloride	45.0	5.39	10.0	NA		µg/L	9/25/2013 1:47 PM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/24/2013 5:11 AM
Styrene	ND	0.240	1.00	NA		µg/L	9/24/2013 5:11 AM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 11:05:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-10A	**Matrix:**	Liquid
Client Sample ID:	MW-15	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/24/2013 5:11 AM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/24/2013 5:11 AM
Tetrachloroethene	4.03	0.196	1.00	NA		µg/L	9/24/2013 5:11 AM
Toluene	ND	0.167	1.00	NA		µg/L	9/24/2013 5:11 AM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/24/2013 5:11 AM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/24/2013 5:11 AM
Trichloroethene	74.8	3.02	10.0	NA		µg/L	9/25/2013 1:47 PM
Trichlorofluoromethane	7.57	0.299	1.00	NA		µg/L	9/24/2013 5:11 AM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/24/2013 5:11 AM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/24/2013 5:11 AM
Vinyl chloride	11.6	0.223	1.00	NA		µg/L	9/24/2013 5:11 AM
o-Xylene	19.0	0.186	1.00	NA		µg/L	9/24/2013 5:11 AM
m,p-Xylene	10.3	0.287	2.00	NA		µg/L	9/24/2013 5:11 AM
Surr: 1,2-Dichloroethane-d4	88.9	NA	68.7-129	NA		%REC	9/24/2013 5:11 AM
Surr: 4-Bromofluorobenzene	108	NA	71.8-127	NA		%REC	9/24/2013 5:11 AM
Surr: Dibromofluoromethane	104	NA	74.3-124	NA		%REC	9/24/2013 5:11 AM
Surr: Toluene-d8	100	NA	71.4-129	NA		%REC	9/24/2013 5:11 AM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	114	2.0	10	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 10:40:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-11A	**Matrix:**	Liquid
Client Sample ID:	MW-16	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	0.0222	0.0010	0.0100	NA		mg/L	9/30/2013 6:32 PM
Lead	0.0017	0.0002	0.0100	NA	J	mg/L	9/30/2013 6:32 PM
Nickel	0.0184	0.0020	0.0500	NA	J	mg/L	9/30/2013 6:32 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/24/2013 5:44 AM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/24/2013 5:44 AM
Benzene	2.10	0.129	1.00	NA		µg/L	9/24/2013 5:44 AM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/24/2013 5:44 AM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/24/2013 5:44 AM
Bromoform	ND	0.400	3.00	NA		µg/L	9/24/2013 5:44 AM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/24/2013 5:44 AM
2-Butanone	ND	4.68	100	NA		µg/L	9/24/2013 5:44 AM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/24/2013 5:44 AM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/24/2013 5:44 AM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/24/2013 5:44 AM
Chloroethane	10.4	0.942	10.0	NA		µg/L	9/24/2013 5:44 AM
Chloroform	ND	0.253	5.00	NA		µg/L	9/24/2013 5:44 AM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/24/2013 5:44 AM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/24/2013 5:44 AM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/24/2013 5:44 AM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/24/2013 5:44 AM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/24/2013 5:44 AM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/24/2013 5:44 AM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/24/2013 5:44 AM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/24/2013 5:44 AM
1,1-Dichloroethane	114	3.83	50.0	NA		µg/L	9/25/2013 2:21 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/24/2013 5:44 AM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/24/2013 5:44 AM
cis-1,2-Dichloroethene	9.73	0.226	5.00	NA		µg/L	9/24/2013 5:44 AM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/24/2013 5:44 AM
1,2-Dichloropropane	0.670	0.461	1.00	NA	J	µg/L	9/24/2013 5:44 AM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/24/2013 5:44 AM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/24/2013 5:44 AM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/24/2013 5:44 AM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/24/2013 5:44 AM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/24/2013 5:44 AM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/24/2013 5:44 AM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/24/2013 5:44 AM
Styrene	ND	0.240	1.00	NA		µg/L	9/24/2013 5:44 AM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 10:40:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-11A	**Matrix:**	Liquid
Client Sample ID:	MW-16	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/24/2013 5:44 AM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/24/2013 5:44 AM
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	9/24/2013 5:44 AM
Toluene	ND	0.167	1.00	NA		µg/L	9/24/2013 5:44 AM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/24/2013 5:44 AM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/24/2013 5:44 AM
Trichloroethene	8.67	0.302	1.00	NA		µg/L	9/24/2013 5:44 AM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/24/2013 5:44 AM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/24/2013 5:44 AM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/24/2013 5:44 AM
Vinyl chloride	5.96	0.223	1.00	NA		µg/L	9/24/2013 5:44 AM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/24/2013 5:44 AM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/24/2013 5:44 AM
Surr: 1,2-Dichloroethane-d4	89.5	NA	68.7-129	NA		%REC	9/24/2013 5:44 AM
Surr: 4-Bromofluorobenzene	109	NA	71.8-127	NA		%REC	9/24/2013 5:44 AM
Surr: Dibromofluoromethane	111	NA	74.3-124	NA		%REC	9/24/2013 5:44 AM
Surr: Toluene-d8	99.1	NA	71.4-129	NA		%REC	9/24/2013 5:44 AM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	190	2.0	10	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 2:05:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-12A	**Matrix:**	Liquid
Client Sample ID:	MW-16A	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	ND	0.0010	0.0100	NA		mg/L	9/30/2013 6:37 PM
Lead	ND	0.0002	0.0100	NA		mg/L	9/30/2013 6:37 PM
Nickel	ND	0.0020	0.0500	NA		mg/L	9/30/2013 6:37 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/23/2013 12:37 PM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/23/2013 12:37 PM
Benzene	ND	0.129	1.00	NA		µg/L	9/23/2013 12:37 PM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/23/2013 12:37 PM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/23/2013 12:37 PM
Bromoform	ND	0.400	3.00	NA		µg/L	9/23/2013 12:37 PM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/23/2013 12:37 PM
2-Butanone	ND	4.68	100	NA		µg/L	9/23/2013 12:37 PM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/23/2013 12:37 PM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/23/2013 12:37 PM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/23/2013 12:37 PM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/23/2013 12:37 PM
Chloroform	ND	0.253	5.00	NA		µg/L	9/23/2013 12:37 PM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/23/2013 12:37 PM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/23/2013 12:37 PM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/23/2013 12:37 PM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/23/2013 12:37 PM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/23/2013 12:37 PM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/23/2013 12:37 PM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/23/2013 12:37 PM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/23/2013 12:37 PM
1,1-Dichloroethane	37.7	3.83	50.0	NA	J	µg/L	9/25/2013 2:55 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/23/2013 12:37 PM
1,1-Dichloroethene	2.18	0.328	5.00	NA	J	µg/L	9/23/2013 12:37 PM
cis-1,2-Dichloroethene	38.9	2.26	50.0	NA	J	µg/L	9/25/2013 2:55 PM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/23/2013 12:37 PM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/23/2013 12:37 PM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/23/2013 12:37 PM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/23/2013 12:37 PM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/23/2013 12:37 PM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/23/2013 12:37 PM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/23/2013 12:37 PM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/23/2013 12:37 PM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/23/2013 12:37 PM
Styrene	ND	0.240	1.00	NA		µg/L	9/23/2013 12:37 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 2:05:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-12A	**Matrix:**	Liquid
Client Sample ID:	MW-16A	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/23/2013 12:37 PM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/23/2013 12:37 PM
Tetrachloroethene	1.88	0.196	1.00	NA		µg/L	9/23/2013 12:37 PM
Toluene	ND	0.167	1.00	NA		µg/L	9/23/2013 12:37 PM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/23/2013 12:37 PM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/23/2013 12:37 PM
Trichloroethene	17.6	0.302	1.00	NA		µg/L	9/23/2013 12:37 PM
Trichlorofluoromethane	9.61	0.299	1.00	NA		µg/L	9/23/2013 12:37 PM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/23/2013 12:37 PM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/23/2013 12:37 PM
Vinyl chloride	3.96	0.223	1.00	NA		µg/L	9/23/2013 12:37 PM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/23/2013 12:37 PM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/23/2013 12:37 PM
Surr: 1,2-Dichloroethane-d4	93.2	NA	68.7-129	NA		%REC	9/23/2013 12:37 PM
Surr: 4-Bromofluorobenzene	107	NA	71.8-127	NA		%REC	9/23/2013 12:37 PM
Surr: Dibromofluoromethane	117	NA	74.3-124	NA		%REC	9/23/2013 12:37 PM
Surr: Toluene-d8	105	NA	71.4-129	NA		%REC	9/23/2013 12:37 PM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	4.7	1.4	7.0	NA	J	mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 1:25:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-13A	**Matrix:**	Liquid
Client Sample ID:	MW-20	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	ND	0.0010	0.0100	NA		mg/L	9/30/2013 6:43 PM
Lead	0.0002	0.0002	0.0100	NA	J	mg/L	9/30/2013 6:43 PM
Nickel	ND	0.0020	0.0500	NA		mg/L	9/30/2013 6:43 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/23/2013 1:10 PM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/23/2013 1:10 PM
Benzene	16.4	0.129	1.00	NA		µg/L	9/23/2013 1:10 PM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/23/2013 1:10 PM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/23/2013 1:10 PM
Bromoform	ND	0.400	3.00	NA		µg/L	9/23/2013 1:10 PM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/23/2013 1:10 PM
2-Butanone	ND	4.68	100	NA		µg/L	9/23/2013 1:10 PM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/23/2013 1:10 PM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/23/2013 1:10 PM
Chlorobenzene	1.40	0.177	3.00	NA	J	µg/L	9/23/2013 1:10 PM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/23/2013 1:10 PM
Chloroform	ND	0.253	5.00	NA		µg/L	9/23/2013 1:10 PM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/23/2013 1:10 PM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/23/2013 1:10 PM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/23/2013 1:10 PM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/23/2013 1:10 PM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/23/2013 1:10 PM
1,2-Dichlorobenzene	0.500	0.450	5.00	NA	J	µg/L	9/23/2013 1:10 PM
1,4-Dichlorobenzene	3.42	0.287	1.00	NA		µg/L	9/23/2013 1:10 PM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/23/2013 1:10 PM
1,1-Dichloroethane	386	38.3	500	NA	J	µg/L	9/25/2013 5:44 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/23/2013 1:10 PM
1,1-Dichloroethene	6.52	0.328	5.00	NA		µg/L	9/23/2013 1:10 PM
cis-1,2-Dichloroethene	966	22.6	500	NA		µg/L	9/25/2013 5:44 PM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/23/2013 1:10 PM
1,2-Dichloropropane	7.21	0.461	1.00	NA		µg/L	9/23/2013 1:10 PM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/23/2013 1:10 PM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/23/2013 1:10 PM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/23/2013 1:10 PM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/23/2013 1:10 PM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/23/2013 1:10 PM
Methylene chloride	66.2	5.39	10.0	NA		µg/L	9/25/2013 3:29 PM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/23/2013 1:10 PM
Styrene	ND	0.240	1.00	NA		µg/L	9/23/2013 1:10 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 1:25:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-13A	**Matrix:**	Liquid
Client Sample ID:	MW-20	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/23/2013 1:10 PM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/23/2013 1:10 PM
Tetrachloroethene	60.5	1.96	10.0	NA		µg/L	9/25/2013 3:29 PM
Toluene	ND	0.167	1.00	NA		µg/L	9/23/2013 1:10 PM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/23/2013 1:10 PM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/23/2013 1:10 PM
Trichloroethene	708	30.2	100	NA		µg/L	9/25/2013 5:44 PM
Trichlorofluoromethane	17.9	0.299	1.00	NA		µg/L	9/23/2013 1:10 PM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/23/2013 1:10 PM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/23/2013 1:10 PM
Vinyl chloride	5.45	0.223	1.00	NA		µg/L	9/23/2013 1:10 PM
o-Xylene	19.4	0.186	1.00	NA		µg/L	9/23/2013 1:10 PM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/23/2013 1:10 PM
Surr: 1,2-Dichloroethane-d4	98.7	NA	68.7-129	NA		%REC	9/23/2013 1:10 PM
Surr: 4-Bromofluorobenzene	105	NA	71.8-127	NA		%REC	9/23/2013 1:10 PM
Surr: Dibromofluoromethane	114	NA	74.3-124	NA		%REC	9/23/2013 1:10 PM
Surr: Toluene-d8	98.8	NA	71.4-129	NA		%REC	9/23/2013 1:10 PM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	6.0	1.0	5.0	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 7:37:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-14A	**Matrix:**	Liquid
Client Sample ID:	MW-21	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	0.0021	0.0010	0.0100	NA	J	mg/L	9/30/2013 6:59 PM
Lead	0.0007	0.0002	0.0100	NA	J	mg/L	9/30/2013 6:59 PM
Nickel	ND	0.0020	0.0500	NA		mg/L	9/30/2013 6:59 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/23/2013 1:43 PM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/23/2013 1:43 PM
Benzene	ND	0.129	1.00	NA		µg/L	9/23/2013 1:43 PM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/23/2013 1:43 PM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/23/2013 1:43 PM
Bromoform	ND	0.400	3.00	NA		µg/L	9/23/2013 1:43 PM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/23/2013 1:43 PM
2-Butanone	ND	4.68	100	NA		µg/L	9/23/2013 1:43 PM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/23/2013 1:43 PM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/23/2013 1:43 PM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/23/2013 1:43 PM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/23/2013 1:43 PM
Chloroform	ND	0.253	5.00	NA		µg/L	9/23/2013 1:43 PM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/23/2013 1:43 PM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/23/2013 1:43 PM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/23/2013 1:43 PM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/23/2013 1:43 PM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/23/2013 1:43 PM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/23/2013 1:43 PM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/23/2013 1:43 PM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/23/2013 1:43 PM
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	9/23/2013 1:43 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/23/2013 1:43 PM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/23/2013 1:43 PM
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	9/23/2013 1:43 PM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/23/2013 1:43 PM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/23/2013 1:43 PM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/23/2013 1:43 PM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/23/2013 1:43 PM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/23/2013 1:43 PM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/23/2013 1:43 PM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/23/2013 1:43 PM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/23/2013 1:43 PM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/23/2013 1:43 PM
Styrene	ND	0.240	1.00	NA		µg/L	9/23/2013 1:43 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 7:37:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-14A	**Matrix:**	Liquid
Client Sample ID:	MW-21	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/23/2013 1:43 PM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/23/2013 1:43 PM
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	9/23/2013 1:43 PM
Toluene	ND	0.167	1.00	NA		µg/L	9/23/2013 1:43 PM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/23/2013 1:43 PM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/23/2013 1:43 PM
Trichloroethene	0.450	0.302	1.00	NA	J	µg/L	9/23/2013 1:43 PM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/23/2013 1:43 PM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/23/2013 1:43 PM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/23/2013 1:43 PM
Vinyl chloride	ND	0.223	1.00	NA		µg/L	9/23/2013 1:43 PM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/23/2013 1:43 PM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/23/2013 1:43 PM
Surr: 1,2-Dichloroethane-d4	89.1	NA	68.7-129	NA		%REC	9/23/2013 1:43 PM
Surr: 4-Bromofluorobenzene	105	NA	71.8-127	NA		%REC	9/23/2013 1:43 PM
Surr: Dibromofluoromethane	115	NA	74.3-124	NA		%REC	9/23/2013 1:43 PM
Surr: Toluene-d8	98.1	NA	71.4-129	NA		%REC	9/23/2013 1:43 PM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	ND	1.0	5.0	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 1:55:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-15A	**Matrix:**	Liquid
Client Sample ID:	MW-23	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	ND	0.0010	0.0100	NA		mg/L	9/30/2013 7:05 PM
Lead	0.0007	0.0002	0.0100	NA	J	mg/L	9/30/2013 7:05 PM
Nickel	0.0024	0.0020	0.0500	NA	J	mg/L	9/30/2013 7:05 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/23/2013 2:17 PM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/23/2013 2:17 PM
Benzene	ND	0.129	1.00	NA		µg/L	9/23/2013 2:17 PM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/23/2013 2:17 PM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/23/2013 2:17 PM
Bromoform	ND	0.400	3.00	NA		µg/L	9/23/2013 2:17 PM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/23/2013 2:17 PM
2-Butanone	ND	4.68	100	NA		µg/L	9/23/2013 2:17 PM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/23/2013 2:17 PM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/23/2013 2:17 PM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/23/2013 2:17 PM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/23/2013 2:17 PM
Chloroform	ND	0.253	5.00	NA		µg/L	9/23/2013 2:17 PM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/23/2013 2:17 PM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/23/2013 2:17 PM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/23/2013 2:17 PM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/23/2013 2:17 PM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/23/2013 2:17 PM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/23/2013 2:17 PM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/23/2013 2:17 PM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/23/2013 2:17 PM
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	9/23/2013 2:17 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/23/2013 2:17 PM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/23/2013 2:17 PM
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	9/23/2013 2:17 PM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/23/2013 2:17 PM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/23/2013 2:17 PM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/23/2013 2:17 PM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/23/2013 2:17 PM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/23/2013 2:17 PM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/23/2013 2:17 PM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/23/2013 2:17 PM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/23/2013 2:17 PM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/23/2013 2:17 PM
Styrene	ND	0.240	1.00	NA		µg/L	9/23/2013 2:17 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 1:55:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-15A	**Matrix:**	Liquid
Client Sample ID:	MW-23	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/23/2013 2:17 PM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/23/2013 2:17 PM
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	9/23/2013 2:17 PM
Toluene	ND	0.167	1.00	NA		µg/L	9/23/2013 2:17 PM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/23/2013 2:17 PM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/23/2013 2:17 PM
Trichloroethene	ND	0.302	1.00	NA		µg/L	9/23/2013 2:17 PM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/23/2013 2:17 PM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/23/2013 2:17 PM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/23/2013 2:17 PM
Vinyl chloride	ND	0.223	1.00	NA		µg/L	9/23/2013 2:17 PM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/23/2013 2:17 PM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/23/2013 2:17 PM
Surr: 1,2-Dichloroethane-d4	88.3	NA	68.7-129	NA		%REC	9/23/2013 2:17 PM
Surr: 4-Bromofluorobenzene	105	NA	71.8-127	NA		%REC	9/23/2013 2:17 PM
Surr: Dibromofluoromethane	102	NA	74.3-124	NA		%REC	9/23/2013 2:17 PM
Surr: Toluene-d8	102	NA	71.4-129	NA		%REC	9/23/2013 2:17 PM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	632	2.0	10	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 1:34:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-16A	**Matrix:**	Liquid
Client Sample ID:	MW-24	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	0.0013	0.0010	0.0100	NA	J	mg/L	9/30/2013 7:10 PM
Lead	0.0005	0.0002	0.0100	NA	J	mg/L	9/30/2013 7:10 PM
Nickel	0.0053	0.0020	0.0500	NA	J	mg/L	9/30/2013 7:10 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/23/2013 2:50 PM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/23/2013 2:50 PM
Benzene	ND	0.129	1.00	NA		µg/L	9/23/2013 2:50 PM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/23/2013 2:50 PM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/23/2013 2:50 PM
Bromoform	ND	0.400	3.00	NA		µg/L	9/23/2013 2:50 PM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/23/2013 2:50 PM
2-Butanone	ND	4.68	100	NA		µg/L	9/23/2013 2:50 PM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/23/2013 2:50 PM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/23/2013 2:50 PM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/23/2013 2:50 PM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/23/2013 2:50 PM
Chloroform	ND	0.253	5.00	NA		µg/L	9/23/2013 2:50 PM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/23/2013 2:50 PM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/23/2013 2:50 PM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/23/2013 2:50 PM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/23/2013 2:50 PM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/23/2013 2:50 PM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/23/2013 2:50 PM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/23/2013 2:50 PM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/23/2013 2:50 PM
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	9/23/2013 2:50 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/23/2013 2:50 PM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/23/2013 2:50 PM
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	9/23/2013 2:50 PM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/23/2013 2:50 PM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/23/2013 2:50 PM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/23/2013 2:50 PM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/23/2013 2:50 PM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/23/2013 2:50 PM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/23/2013 2:50 PM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/23/2013 2:50 PM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/23/2013 2:50 PM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/23/2013 2:50 PM
Styrene	ND	0.240	1.00	NA		µg/L	9/23/2013 2:50 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 1:34:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-16A	**Matrix:**	Liquid
Client Sample ID:	MW-24	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/23/2013 2:50 PM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/23/2013 2:50 PM
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	9/23/2013 2:50 PM
Toluene	ND	0.167	1.00	NA		µg/L	9/23/2013 2:50 PM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/23/2013 2:50 PM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/23/2013 2:50 PM
Trichloroethene	ND	0.302	1.00	NA		µg/L	9/23/2013 2:50 PM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/23/2013 2:50 PM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/23/2013 2:50 PM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/23/2013 2:50 PM
Vinyl chloride	ND	0.223	1.00	NA		µg/L	9/23/2013 2:50 PM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/23/2013 2:50 PM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/23/2013 2:50 PM
Surr: 1,2-Dichloroethane-d4	101	NA	68.7-129	NA		%REC	9/23/2013 2:50 PM
Surr: 4-Bromofluorobenzene	109	NA	71.8-127	NA		%REC	9/23/2013 2:50 PM
Surr: Dibromofluoromethane	107	NA	74.3-124	NA		%REC	9/23/2013 2:50 PM
Surr: Toluene-d8	101	NA	71.4-129	NA		%REC	9/23/2013 2:50 PM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	1,030	2.0	10	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 2:56:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-17A	**Matrix:**	Liquid
Client Sample ID:	MW-24D	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	0.0018	0.0010	0.0100	NA	J	mg/L	9/30/2013 7:16 PM
Lead	0.0005	0.0002	0.0100	NA	J	mg/L	9/30/2013 7:16 PM
Nickel	ND	0.0020	0.0500	NA		mg/L	9/30/2013 7:16 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/23/2013 3:23 PM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/23/2013 3:23 PM
Benzene	ND	0.129	1.00	NA		µg/L	9/23/2013 3:23 PM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/23/2013 3:23 PM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/23/2013 3:23 PM
Bromoform	ND	0.400	3.00	NA		µg/L	9/23/2013 3:23 PM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/23/2013 3:23 PM
2-Butanone	ND	4.68	100	NA		µg/L	9/23/2013 3:23 PM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/23/2013 3:23 PM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/23/2013 3:23 PM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/23/2013 3:23 PM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/23/2013 3:23 PM
Chloroform	ND	0.253	5.00	NA		µg/L	9/23/2013 3:23 PM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/23/2013 3:23 PM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/23/2013 3:23 PM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/23/2013 3:23 PM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/23/2013 3:23 PM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/23/2013 3:23 PM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/23/2013 3:23 PM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/23/2013 3:23 PM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/23/2013 3:23 PM
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	9/23/2013 3:23 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/23/2013 3:23 PM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/23/2013 3:23 PM
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	9/23/2013 3:23 PM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/23/2013 3:23 PM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/23/2013 3:23 PM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/23/2013 3:23 PM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/23/2013 3:23 PM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/23/2013 3:23 PM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/23/2013 3:23 PM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/23/2013 3:23 PM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/23/2013 3:23 PM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/23/2013 3:23 PM
Styrene	ND	0.240	1.00	NA		µg/L	9/23/2013 3:23 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 2:56:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-17A	**Matrix:**	Liquid
Client Sample ID:	MW-24D	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/23/2013 3:23 PM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/23/2013 3:23 PM
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	9/23/2013 3:23 PM
Toluene	ND	0.167	1.00	NA		µg/L	9/23/2013 3:23 PM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/23/2013 3:23 PM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/23/2013 3:23 PM
Trichloroethene	ND	0.302	1.00	NA		µg/L	9/23/2013 3:23 PM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/23/2013 3:23 PM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/23/2013 3:23 PM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/23/2013 3:23 PM
Vinyl chloride	ND	0.223	1.00	NA		µg/L	9/23/2013 3:23 PM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/23/2013 3:23 PM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/23/2013 3:23 PM
Surr: 1,2-Dichloroethane-d4	86.3	NA	68.7-129	NA		%REC	9/23/2013 3:23 PM
Surr: 4-Bromofluorobenzene	104	NA	71.8-127	NA		%REC	9/23/2013 3:23 PM
Surr: Dibromofluoromethane	117	NA	74.3-124	NA		%REC	9/23/2013 3:23 PM
Surr: Toluene-d8	101	NA	71.4-129	NA		%REC	9/23/2013 3:23 PM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	63.0	2.0	10	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 2:59:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-18A	**Matrix:**	Liquid
Client Sample ID:	OW-1	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	ND	0.0010	0.0100	NA		mg/L	9/30/2013 7:21 PM
Lead	0.0009	0.0002	0.0100	NA	J	mg/L	9/30/2013 7:21 PM
Nickel	ND	0.0020	0.0500	NA		mg/L	9/30/2013 7:21 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/23/2013 3:57 PM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/23/2013 3:57 PM
Benzene	2.93	0.129	1.00	NA		µg/L	9/23/2013 3:57 PM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/23/2013 3:57 PM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/23/2013 3:57 PM
Bromoform	ND	0.400	3.00	NA		µg/L	9/23/2013 3:57 PM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/23/2013 3:57 PM
2-Butanone	ND	4.68	100	NA		µg/L	9/23/2013 3:57 PM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/23/2013 3:57 PM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/23/2013 3:57 PM
Chlorobenzene	1.84	0.177	3.00	NA	J	µg/L	9/23/2013 3:57 PM
Chloroethane	7.00	0.942	10.0	NA	J	µg/L	9/23/2013 3:57 PM
Chloroform	ND	0.253	5.00	NA		µg/L	9/23/2013 3:57 PM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/23/2013 3:57 PM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/23/2013 3:57 PM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/23/2013 3:57 PM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/23/2013 3:57 PM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/23/2013 3:57 PM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/23/2013 3:57 PM
1,4-Dichlorobenzene	1.12	0.287	1.00	NA		µg/L	9/23/2013 3:57 PM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/23/2013 3:57 PM
1,1-Dichloroethane	29.2	3.83	50.0	NA	J	µg/L	9/25/2013 4:03 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/23/2013 3:57 PM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/23/2013 3:57 PM
cis-1,2-Dichloroethene	26.6	2.26	50.0	NA	J	µg/L	9/25/2013 4:03 PM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/23/2013 3:57 PM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/23/2013 3:57 PM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/23/2013 3:57 PM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/23/2013 3:57 PM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/23/2013 3:57 PM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/23/2013 3:57 PM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/23/2013 3:57 PM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/23/2013 3:57 PM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/23/2013 3:57 PM
Styrene	ND	0.240	1.00	NA		µg/L	9/23/2013 3:57 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 2:59:00 PM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-18A	**Matrix:**	Liquid
Client Sample ID:	OW-1	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/23/2013 3:57 PM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/23/2013 3:57 PM
Tetrachloroethene	4.59	0.196	1.00	NA		µg/L	9/23/2013 3:57 PM
Toluene	ND	0.167	1.00	NA		µg/L	9/23/2013 3:57 PM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/23/2013 3:57 PM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/23/2013 3:57 PM
Trichloroethene	7.62	0.302	1.00	NA		µg/L	9/23/2013 3:57 PM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/23/2013 3:57 PM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/23/2013 3:57 PM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/23/2013 3:57 PM
Vinyl chloride	9.14	0.223	1.00	NA		µg/L	9/23/2013 3:57 PM
o-Xylene	1.96	0.186	1.00	NA		µg/L	9/23/2013 3:57 PM
m,p-Xylene	0.760	0.287	2.00	NA	J	µg/L	9/23/2013 3:57 PM
Surr: 1,2-Dichloroethane-d4	93.8	NA	68.7-129	NA		%REC	9/23/2013 3:57 PM
Surr: 4-Bromofluorobenzene	105	NA	71.8-127	NA		%REC	9/23/2013 3:57 PM
Surr: Dibromofluoromethane	117	NA	74.3-124	NA		%REC	9/23/2013 3:57 PM
Surr: Toluene-d8	101	NA	71.4-129	NA		%REC	9/23/2013 3:57 PM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	129	2.0	10	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 10:15:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-19A	**Matrix:**	Liquid
Client Sample ID:	OW-3	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	ND	0.0010	0.0100	NA		mg/L	9/30/2013 7:27 PM
Lead	0.0027	0.0002	0.0100	NA	J	mg/L	9/30/2013 7:27 PM
Nickel	0.0037	0.0020	0.0500	NA	J	mg/L	9/30/2013 7:27 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	8.26	4.88	100	NA	J	µg/L	9/23/2013 4:30 PM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/23/2013 4:30 PM
Benzene	ND	0.129	1.00	NA		µg/L	9/23/2013 4:30 PM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/23/2013 4:30 PM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/23/2013 4:30 PM
Bromoform	ND	0.400	3.00	NA		µg/L	9/23/2013 4:30 PM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/23/2013 4:30 PM
2-Butanone	ND	4.68	100	NA		µg/L	9/23/2013 4:30 PM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/23/2013 4:30 PM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/23/2013 4:30 PM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/23/2013 4:30 PM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/23/2013 4:30 PM
Chloroform	ND	0.253	5.00	NA		µg/L	9/23/2013 4:30 PM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/23/2013 4:30 PM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/23/2013 4:30 PM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/23/2013 4:30 PM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/23/2013 4:30 PM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/23/2013 4:30 PM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/23/2013 4:30 PM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/23/2013 4:30 PM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/23/2013 4:30 PM
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	9/23/2013 4:30 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/23/2013 4:30 PM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/23/2013 4:30 PM
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	9/23/2013 4:30 PM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/23/2013 4:30 PM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/23/2013 4:30 PM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/23/2013 4:30 PM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/23/2013 4:30 PM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/23/2013 4:30 PM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/23/2013 4:30 PM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/23/2013 4:30 PM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/23/2013 4:30 PM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/23/2013 4:30 PM
Styrene	ND	0.240	1.00	NA		µg/L	9/23/2013 4:30 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 10:15:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-19A	**Matrix:**	Liquid
Client Sample ID:	OW-3	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/23/2013 4:30 PM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/23/2013 4:30 PM
Tetrachloroethene	0.780	0.196	1.00	NA	J	µg/L	9/23/2013 4:30 PM
Toluene	ND	0.167	1.00	NA		µg/L	9/23/2013 4:30 PM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/23/2013 4:30 PM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/23/2013 4:30 PM
Trichloroethene	ND	0.302	1.00	NA		µg/L	9/23/2013 4:30 PM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/23/2013 4:30 PM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/23/2013 4:30 PM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/23/2013 4:30 PM
Vinyl chloride	ND	0.223	1.00	NA		µg/L	9/23/2013 4:30 PM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/23/2013 4:30 PM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/23/2013 4:30 PM
Surr: 1,2-Dichloroethane-d4	92.9	NA	68.7-129	NA		%REC	9/23/2013 4:30 PM
Surr: 4-Bromofluorobenzene	103	NA	71.8-127	NA		%REC	9/23/2013 4:30 PM
Surr: Dibromofluoromethane	101	NA	74.3-124	NA		%REC	9/23/2013 4:30 PM
Surr: Toluene-d8	99.8	NA	71.4-129	NA		%REC	9/23/2013 4:30 PM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	99.0	2.0	10	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 10:35:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-20A	**Matrix:**	Liquid
Client Sample ID:	CR-1	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	ND	0.0010	0.0100	NA		mg/L	9/30/2013 7:32 PM
Lead	ND	0.0002	0.0100	NA		mg/L	9/30/2013 7:32 PM
Nickel	ND	0.0020	0.0500	NA		mg/L	9/30/2013 7:32 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/23/2013 5:03 PM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/23/2013 5:03 PM
Benzene	ND	0.129	1.00	NA		µg/L	9/23/2013 5:03 PM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/23/2013 5:03 PM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/23/2013 5:03 PM
Bromoform	ND	0.400	3.00	NA		µg/L	9/23/2013 5:03 PM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/23/2013 5:03 PM
2-Butanone	ND	4.68	100	NA		µg/L	9/23/2013 5:03 PM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/23/2013 5:03 PM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/23/2013 5:03 PM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/23/2013 5:03 PM
Chloroethane	2.74	0.942	10.0	NA	J	µg/L	9/23/2013 5:03 PM
Chloroform	ND	0.253	5.00	NA		µg/L	9/23/2013 5:03 PM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/23/2013 5:03 PM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/23/2013 5:03 PM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/23/2013 5:03 PM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/23/2013 5:03 PM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/23/2013 5:03 PM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/23/2013 5:03 PM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/23/2013 5:03 PM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/23/2013 5:03 PM
1,1-Dichloroethane	2.84	0.383	5.00	NA	J	µg/L	9/23/2013 5:03 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/23/2013 5:03 PM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/23/2013 5:03 PM
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	9/23/2013 5:03 PM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/23/2013 5:03 PM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/23/2013 5:03 PM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/23/2013 5:03 PM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/23/2013 5:03 PM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/23/2013 5:03 PM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/23/2013 5:03 PM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/23/2013 5:03 PM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/23/2013 5:03 PM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/23/2013 5:03 PM
Styrene	ND	0.240	1.00	NA		µg/L	9/23/2013 5:03 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 10:35:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-20A	**Matrix:**	Liquid
Client Sample ID:	CR-1	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/23/2013 5:03 PM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/23/2013 5:03 PM
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	9/23/2013 5:03 PM
Toluene	ND	0.167	1.00	NA		µg/L	9/23/2013 5:03 PM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/23/2013 5:03 PM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/23/2013 5:03 PM
Trichloroethene	ND	0.302	1.00	NA		µg/L	9/23/2013 5:03 PM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/23/2013 5:03 PM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/23/2013 5:03 PM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/23/2013 5:03 PM
Vinyl chloride	ND	0.223	1.00	NA		µg/L	9/23/2013 5:03 PM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/23/2013 5:03 PM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/23/2013 5:03 PM
Surr: 1,2-Dichloroethane-d4	95.7	NA	68.7-129	NA		%REC	9/23/2013 5:03 PM
Surr: 4-Bromofluorobenzene	104	NA	71.8-127	NA		%REC	9/23/2013 5:03 PM
Surr: Dibromofluoromethane	108	NA	74.3-124	NA		%REC	9/23/2013 5:03 PM
Surr: Toluene-d8	101	NA	71.4-129	NA		%REC	9/23/2013 5:03 PM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	1.0	1.0	5.0	NA	J	mg/L	9/20/2013 3:51 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 11:46:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-21A	**Matrix:**	Liquid
Client Sample ID:	SW-2	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	ND	0.0010	0.0100	NA		mg/L	9/30/2013 8:21 PM
Lead	ND	0.0002	0.0100	NA		mg/L	9/30/2013 8:21 PM
Nickel	ND	0.0020	0.0500	NA		mg/L	9/30/2013 8:21 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/23/2013 5:36 PM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/23/2013 5:36 PM
Benzene	ND	0.129	1.00	NA		µg/L	9/23/2013 5:36 PM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/23/2013 5:36 PM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/23/2013 5:36 PM
Bromoform	ND	0.400	3.00	NA		µg/L	9/23/2013 5:36 PM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/23/2013 5:36 PM
2-Butanone	ND	4.68	100	NA		µg/L	9/23/2013 5:36 PM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/23/2013 5:36 PM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/23/2013 5:36 PM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/23/2013 5:36 PM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/23/2013 5:36 PM
Chloroform	ND	0.253	5.00	NA		µg/L	9/23/2013 5:36 PM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/23/2013 5:36 PM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/23/2013 5:36 PM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/23/2013 5:36 PM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/23/2013 5:36 PM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/23/2013 5:36 PM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/23/2013 5:36 PM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/23/2013 5:36 PM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/23/2013 5:36 PM
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	9/23/2013 5:36 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/23/2013 5:36 PM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/23/2013 5:36 PM
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	9/23/2013 5:36 PM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/23/2013 5:36 PM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/23/2013 5:36 PM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/23/2013 5:36 PM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/23/2013 5:36 PM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/23/2013 5:36 PM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/23/2013 5:36 PM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/23/2013 5:36 PM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/23/2013 5:36 PM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/23/2013 5:36 PM
Styrene	ND	0.240	1.00	NA		µg/L	9/23/2013 5:36 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 11:46:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-21A	**Matrix:**	Liquid
Client Sample ID:	SW-2	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/23/2013 5:36 PM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/23/2013 5:36 PM
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	9/23/2013 5:36 PM
Toluene	ND	0.167	1.00	NA		µg/L	9/23/2013 5:36 PM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/23/2013 5:36 PM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/23/2013 5:36 PM
Trichloroethene	ND	0.302	1.00	NA		µg/L	9/23/2013 5:36 PM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/23/2013 5:36 PM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/23/2013 5:36 PM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/23/2013 5:36 PM
Vinyl chloride	ND	0.223	1.00	NA		µg/L	9/23/2013 5:36 PM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/23/2013 5:36 PM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/23/2013 5:36 PM
Surr: 1,2-Dichloroethane-d4	89.8	NA	68.7-129	NA		%REC	9/23/2013 5:36 PM
Surr: 4-Bromofluorobenzene	106	NA	71.8-127	NA		%REC	9/23/2013 5:36 PM
Surr: Dibromofluoromethane	109	NA	74.3-124	NA		%REC	9/23/2013 5:36 PM
Surr: Toluene-d8	101	NA	71.4-129	NA		%REC	9/23/2013 5:36 PM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	1.5	1.0	5.0	NA	J	mg/L	9/20/2013 3:51 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 11:46:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-22A	**Matrix:**	Liquid
Client Sample ID:	MW-13 DUPLICATE	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	ND	0.0010	0.0100	NA		mg/L	9/30/2013 8:27 PM
Lead	ND	0.0002	0.0100	NA		mg/L	9/30/2013 8:27 PM
Nickel	ND	0.0020	0.0500	NA		mg/L	9/30/2013 8:27 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/24/2013 6:17 AM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/24/2013 6:17 AM
Benzene	0.530	0.129	1.00	NA	J	µg/L	9/24/2013 6:17 AM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/24/2013 6:17 AM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/24/2013 6:17 AM
Bromoform	ND	0.400	3.00	NA		µg/L	9/24/2013 6:17 AM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/24/2013 6:17 AM
2-Butanone	ND	4.68	100	NA		µg/L	9/24/2013 6:17 AM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/24/2013 6:17 AM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/24/2013 6:17 AM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/24/2013 6:17 AM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/24/2013 6:17 AM
Chloroform	ND	0.253	5.00	NA		µg/L	9/24/2013 6:17 AM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/24/2013 6:17 AM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/24/2013 6:17 AM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/24/2013 6:17 AM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/24/2013 6:17 AM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/24/2013 6:17 AM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/24/2013 6:17 AM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/24/2013 6:17 AM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/24/2013 6:17 AM
1,1-Dichloroethane	42.4	3.83	50.0	NA	J	µg/L	9/25/2013 4:37 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/24/2013 6:17 AM
1,1-Dichloroethene	2.13	0.328	5.00	NA	J	µg/L	9/24/2013 6:17 AM
cis-1,2-Dichloroethene	38.3	2.26	50.0	NA	J	µg/L	9/25/2013 4:37 PM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/24/2013 6:17 AM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/24/2013 6:17 AM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/24/2013 6:17 AM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/24/2013 6:17 AM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/24/2013 6:17 AM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/24/2013 6:17 AM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/24/2013 6:17 AM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/24/2013 6:17 AM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/24/2013 6:17 AM
Styrene	ND	0.240	1.00	NA		µg/L	9/24/2013 6:17 AM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 11:46:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-22A	**Matrix:**	Liquid
Client Sample ID:	MW-13 DUPLICATE	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/24/2013 6:17 AM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/24/2013 6:17 AM
Tetrachloroethene	2.48	0.196	1.00	NA		µg/L	9/24/2013 6:17 AM
Toluene	ND	0.167	1.00	NA		µg/L	9/24/2013 6:17 AM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/24/2013 6:17 AM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/24/2013 6:17 AM
Trichloroethene	22.6	0.302	1.00	NA		µg/L	9/24/2013 6:17 AM
Trichlorofluoromethane	10.1	0.299	1.00	NA		µg/L	9/24/2013 6:17 AM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/24/2013 6:17 AM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/24/2013 6:17 AM
Vinyl chloride	5.60	0.223	1.00	NA		µg/L	9/24/2013 6:17 AM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/24/2013 6:17 AM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/24/2013 6:17 AM
Surr: 1,2-Dichloroethane-d4	92.9	NA	68.7-129	NA		%REC	9/24/2013 6:17 AM
Surr: 4-Bromofluorobenzene	106	NA	71.8-127	NA		%REC	9/24/2013 6:17 AM
Surr: Dibromofluoromethane	114	NA	74.3-124	NA		%REC	9/24/2013 6:17 AM
Surr: Toluene-d8	96.4	NA	71.4-129	NA		%REC	9/24/2013 6:17 AM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	10	1.4	7.0	NA		mg/L	9/20/2013 3:33 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 10:40:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-23A	**Matrix:**	Liquid
Client Sample ID:	MW-16 DUPLICATE	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
TOTAL METALS by ICP-MS		**Method: SW6020A**			**SW3020A**		**Analyst: JD**
Chromium	ND	0.0010	0.0100	NA		mg/L	9/30/2013 8:43 PM
Lead	ND	0.0002	0.0100	NA		mg/L	9/30/2013 8:43 PM
Nickel	ND	0.0020	0.0500	NA		mg/L	9/30/2013 8:43 PM
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/23/2013 6:09 PM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/23/2013 6:09 PM
Benzene	ND	0.129	1.00	NA		µg/L	9/23/2013 6:09 PM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/23/2013 6:09 PM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/23/2013 6:09 PM
Bromoform	ND	0.400	3.00	NA		µg/L	9/23/2013 6:09 PM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/23/2013 6:09 PM
2-Butanone	ND	4.68	100	NA		µg/L	9/23/2013 6:09 PM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/23/2013 6:09 PM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/23/2013 6:09 PM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/23/2013 6:09 PM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/23/2013 6:09 PM
Chloroform	ND	0.253	5.00	NA		µg/L	9/23/2013 6:09 PM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/23/2013 6:09 PM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/23/2013 6:09 PM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/23/2013 6:09 PM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/23/2013 6:09 PM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/23/2013 6:09 PM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/23/2013 6:09 PM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/23/2013 6:09 PM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/23/2013 6:09 PM
1,1-Dichloroethane	36.6	3.83	50.0	NA	J	µg/L	9/25/2013 5:11 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/23/2013 6:09 PM
1,1-Dichloroethene	2.06	0.328	5.00	NA	J	µg/L	9/23/2013 6:09 PM
cis-1,2-Dichloroethene	37.6	2.26	50.0	NA	J	µg/L	9/25/2013 5:11 PM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/23/2013 6:09 PM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/23/2013 6:09 PM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/23/2013 6:09 PM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/23/2013 6:09 PM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/23/2013 6:09 PM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/23/2013 6:09 PM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/23/2013 6:09 PM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/23/2013 6:09 PM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/23/2013 6:09 PM
Styrene	ND	0.240	1.00	NA		µg/L	9/23/2013 6:09 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 10:40:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-23A	**Matrix:**	Liquid
Client Sample ID:	MW-16 DUPLICATE	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/23/2013 6:09 PM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/23/2013 6:09 PM
Tetrachloroethene	1.55	0.196	1.00	NA		µg/L	9/23/2013 6:09 PM
Toluene	ND	0.167	1.00	NA		µg/L	9/23/2013 6:09 PM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/23/2013 6:09 PM
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/23/2013 6:09 PM
Trichloroethene	17.0	0.302	1.00	NA		µg/L	9/23/2013 6:09 PM
Trichlorofluoromethane	8.09	0.299	1.00	NA		µg/L	9/23/2013 6:09 PM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/23/2013 6:09 PM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/23/2013 6:09 PM
Vinyl chloride	3.84	0.223	1.00	NA		µg/L	9/23/2013 6:09 PM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/23/2013 6:09 PM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/23/2013 6:09 PM
Surr: 1,2-Dichloroethane-d4	91.8	NA	68.7-129	NA		%REC	9/23/2013 6:09 PM
Surr: 4-Bromofluorobenzene	108	NA	71.8-127	NA		%REC	9/23/2013 6:09 PM
Surr: Dibromofluoromethane	116	NA	74.3-124	NA		%REC	9/23/2013 6:09 PM
Surr: Toluene-d8	101	NA	71.4-129	NA		%REC	9/23/2013 6:09 PM
TOTAL SUSPENDED SOLIDS		**Method: SM2540 D**					**Analyst: SF**
Total Suspended Solids	ND	1.4	7.0	NA		mg/L	9/20/2013 3:51 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 12:00:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-24A	**Matrix:**	Trip Blank
Client Sample ID:	TRIP BLANK	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
VOLATILE ORGANIC COMPOUNDS-8260		**Method: SW8260B**					**Analyst: RB**
Acetone	ND	4.88	100	NA		µg/L	9/23/2013 6:42 PM
Acrylonitrile	ND	4.24	200	NA		µg/L	9/23/2013 6:42 PM
Benzene	ND	0.129	1.00	NA		µg/L	9/23/2013 6:42 PM
Bromochloromethane	ND	0.346	3.00	NA		µg/L	9/23/2013 6:42 PM
Bromodichloromethane	ND	0.162	1.00	NA		µg/L	9/23/2013 6:42 PM
Bromoform	ND	0.400	3.00	NA		µg/L	9/23/2013 6:42 PM
Bromomethane	ND	0.497	10.0	NA		µg/L	9/23/2013 6:42 PM
2-Butanone	ND	4.68	100	NA		µg/L	9/23/2013 6:42 PM
Carbon disulfide	ND	1.27	100	NA		µg/L	9/23/2013 6:42 PM
Carbon tetrachloride	ND	0.250	1.00	NA		µg/L	9/23/2013 6:42 PM
Chlorobenzene	ND	0.177	3.00	NA		µg/L	9/23/2013 6:42 PM
Chloroethane	ND	0.942	10.0	NA		µg/L	9/23/2013 6:42 PM
Chloroform	ND	0.253	5.00	NA		µg/L	9/23/2013 6:42 PM
Chloromethane	ND	0.327	1.00	NA		µg/L	9/23/2013 6:42 PM
Dibromochloromethane	ND	0.419	3.00	NA		µg/L	9/23/2013 6:42 PM
1,2-Dibromo-3-chloropropane	ND	0.499	13.0	NA		µg/L	9/23/2013 6:42 PM
1,2-Dibromoethane	ND	0.341	1.00	NA		µg/L	9/23/2013 6:42 PM
Dibromomethane	ND	0.293	10.0	NA		µg/L	9/23/2013 6:42 PM
1,2-Dichlorobenzene	ND	0.450	5.00	NA		µg/L	9/23/2013 6:42 PM
1,4-Dichlorobenzene	ND	0.287	1.00	NA		µg/L	9/23/2013 6:42 PM
trans-1,4-Dichloro-2-butene	ND	2.81	100	NA		µg/L	9/23/2013 6:42 PM
1,1-Dichloroethane	ND	0.383	5.00	NA		µg/L	9/23/2013 6:42 PM
1,2-Dichloroethane	ND	0.428	1.00	NA		µg/L	9/23/2013 6:42 PM
1,1-Dichloroethene	ND	0.328	5.00	NA		µg/L	9/23/2013 6:42 PM
cis-1,2-Dichloroethene	ND	0.226	5.00	NA		µg/L	9/23/2013 6:42 PM
trans-1,2-Dichloroethene	ND	0.392	5.00	NA		µg/L	9/23/2013 6:42 PM
1,2-Dichloropropane	ND	0.461	1.00	NA		µg/L	9/23/2013 6:42 PM
cis-1,3-Dichloropropene	ND	0.220	1.00	NA		µg/L	9/23/2013 6:42 PM
trans-1,3-Dichloropropene	ND	0.216	1.00	NA		µg/L	9/23/2013 6:42 PM
Ethylbenzene	ND	0.178	1.00	NA		µg/L	9/23/2013 6:42 PM
2-Hexanone	ND	4.11	50.0	NA		µg/L	9/23/2013 6:42 PM
Iodomethane	ND	3.44	10.0	NA		µg/L	9/23/2013 6:42 PM
Methylene chloride	ND	0.539	1.00	NA		µg/L	9/23/2013 6:42 PM
4-Methyl-2-pentanone	ND	4.40	100	NA		µg/L	9/23/2013 6:42 PM
Styrene	ND	0.240	1.00	NA		µg/L	9/23/2013 6:42 PM
1,1,1,2-Tetrachloroethane	ND	0.360	5.00	NA		µg/L	9/23/2013 6:42 PM
1,1,2,2-Tetrachloroethane	ND	0.384	3.00	NA		µg/L	9/23/2013 6:42 PM
Tetrachloroethene	ND	0.196	1.00	NA		µg/L	9/23/2013 6:42 PM
Toluene	ND	0.167	1.00	NA		µg/L	9/23/2013 6:42 PM
1,1,1-Trichloroethane	ND	0.354	1.00	NA		µg/L	9/23/2013 6:42 PM

REI Consultants, Inc. - Analytical Report

WO#: 1309L87

Date Reported: 10/3/2013

Client:	COUNTY OF CATAWBA	**Collection Date:**	9/17/2013 12:00:00 AM
Project:	NEWTON	**Date Received:**	9/20/2013
Lab ID:	1309L87-24A	**Matrix:**	Trip Blank
Client Sample ID:	TRIP BLANK	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
1,1,2-Trichloroethane	ND	0.492	1.00	NA		µg/L	9/23/2013 6:42 PM
Trichloroethene	ND	0.302	1.00	NA		µg/L	9/23/2013 6:42 PM
Trichlorofluoromethane	ND	0.299	1.00	NA		µg/L	9/23/2013 6:42 PM
1,2,3-Trichloropropane	ND	0.358	1.00	NA		µg/L	9/23/2013 6:42 PM
Vinyl acetate	ND	4.87	50.0	NA		µg/L	9/23/2013 6:42 PM
Vinyl chloride	ND	0.223	1.00	NA		µg/L	9/23/2013 6:42 PM
o-Xylene	ND	0.186	1.00	NA		µg/L	9/23/2013 6:42 PM
m,p-Xylene	ND	0.287	2.00	NA		µg/L	9/23/2013 6:42 PM
Surr: 1,2-Dichloroethane-d4	89.6	NA	68.7-129	NA		%REC	9/23/2013 6:42 PM
Surr: 4-Bromofluorobenzene	109	NA	71.8-127	NA		%REC	9/23/2013 6:42 PM
Surr: Dibromofluoromethane	113	NA	74.3-124	NA		%REC	9/23/2013 6:42 PM
Surr: Toluene-d8	101	NA	71.4-129	NA		%REC	9/23/2013 6:42 PM

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

ANALYSIS & METHOD REQUESTED: NEWTON-NC

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1	2							
MW-1	6	9-17-13 / 0945	Water	Grab	✓	✓							
MW-3	6	0810	Water	Grab	✓	✓							
MW-9	6	0848	Water	Grab	✓	✓							
MW-10A	6	0911	Water	Grab	✓	✓							
MW-10B	6	0917	Water	Grab	✓	✓							
MW-11	6	0837	Water	Grab	✓	✓							
MW-13	6	1146	Water	Grab	✓	✓							
MW-14	6	1548	Water	Grab	✓	✓							
MW-14A	6	1535	Water	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 METALS 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):	9-20-13 0630	Relinquished by (signature)	Date/Time	Relinquished by (signature)	Date/Time
Received by (signature)	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

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
*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: NEWTON-NC

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1	2							
MW-15	6	9-17-13 / 1425	GWater	Grab	✓	✓							
MW-16	6	1105	GWater	Grab	✓	✓							
MW-16A	6	1040	GWater	Grab	✓	✓							
MW-20	6	1405	GWater	Grab	✓	✓							
MW-21	6	1325	GWater	Grab	✓	✓							
MW-23	6	0737	GWater	Grab	✓	✓							
MW-24	6	1355	GWater	Grab	✓	✓							
MW-24D	6	1334	GWater	Grab	✓	✓							
OW-1	6	1456	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 METALS 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) R Farley	Date/Time 9-20-13 0830	Relinquished by (signature)	Date/Time	Relinquished by (signature)	Date/Time
Received by (signature) Kathy Berry	9-20-13 0730	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

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
*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: NEWTON-NC; NC APPENDIX 1 VOL

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1	2	1						
OW-3	6	9-17-13 / 1436	GWater	Grab	✓	✓							
CR-1	6	1015	GWater	Grab	✓	✓							
SW-2	6	1035	GWater	Grab	✓	✓							
MW-13 DUPLICATE	18	1146	GWater	Grab	✓	✓							
MW- 16A DUPLICATE	18	1040	GWater	Grab	✓	✓							
TRIP BLANK # 4	2 VOA		Choose	Choose			✓						
			Choose	Choose									
			Choose	Choose									
			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 METALS ON ANY TOTAL METAL DETECTIONS

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

Temperature at arrival: °C ICED? Y___ N___

1		2		3	
Relinquished by (signature)	9-20-13 0630	Relinquished by (signature)	Date/Time	Relinquished by (signature)	Date/Time
Received by (signature)	9-20-13 0730	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	SWSL
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
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
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
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
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
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
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
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
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
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
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
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
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
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
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
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200
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
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
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
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
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
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
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
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0038	ND	ND	0.001
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
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
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
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
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
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
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
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	0.002	0.0012	ND	ND	ND	ND	ND	0.001
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
45	Vinyl acetate	mg/L		0.025	ND	0.056	ND	ND	ND	ND	ND	ND	0.070	ND	ND	ND	0.050
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
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
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0783	0.050

	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	38 Mar-2012
1	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	ND	0.0258	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	0.113	0.106	0.242	0.248	0.17	0.181	0.006	0.005	0.117	0.206	0.162	0.227	ND
6	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	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	ND
9	1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	ND	ND	ND	0.0054	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	ND	0.0022	0.005	ND	ND	ND	0.0006	0.001	ND	0.0057	ND	0.0061	0.0062
13	1,4-Dichlorobenzene	ND	J	ND	0.0016	ND	ND	0.006	0.001	ND	0.0017	0.0011	0.0018	0.0017
14	2-Butanone (Methyl ethyl ketone)	2.3	1.41	5.36	ND	5.4	ND	4	0.100	0.498	ND	9.47	13.5	11.8
15	2-Hexanone	0.0598	0.0807	0.132	0.192	0.183	0.169 J	0.04	0.050	0.103	0.189	0.110	0.172	0.179
16	4-Methyl-2-pentanone	0.225	0.187	0.491	0.581	0.718	0.857 J		0.100	0.703	1.15	0.908	1.23	1.10
17	Acetone	0.945	0.924	4.83	6.46	3.04	4.76	6	0.100	3.27	5.22	7.29	12.3	14.8
18	Acrylonitrile	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND	ND
19	Benzene	0.010	0.013	0.014	0.014	0.014	0.0154	0.001	0.001	0.0132	0.0141	0.0147	0.0146	0.0147
20	Bromochloromethane	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND	ND
21	Bromodichloromethane	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	ND	ND	ND	0.0002 J	ND	ND	0.05	0.003	ND	0.0002 J	ND	0.0002 J	ND
27	Chloroethane	0.301	0.372	0.472	0.426	0.248	0.402	3	0.010	0.322	0.337	0.374	0.168	0.233
28	Chloroform	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	ND	0.0078	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND
32	Dibromochloromethane	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	0.0066	0.014	0.0209	0.0237	0.0205	0.0265	0.6	0.001	0.0159	0.0236	0.0147	0.0246	0.0204
35	Iodomethane (Methyl iodide)	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	ND	ND	0.0207	0.026	0.0128	0.0119	0.005	0.001	0.0066	0.0164	0.0129	0.0206	0.0230
37	Styrene	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND
38	Tetrachloroethene	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND	ND
39	Toluene	0.453	0.232	0.527	0.566	0.239	0.25	0.6	0.001	0.185	0.293	0.171	0.195	0.221
40	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	ND	ND	ND	0.0005 J	ND	ND	0.003	0.001	ND	ND	ND	ND	0.0003 J
44	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0041	ND
45	Vinyl acetate	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	ND	ND	ND	0.028	0.023	0.0221	0.00003	0.001	0.0213	ND	0.0210	0.0171	0.0154
47	Xylenes	0.018	ND	0.031	0.033	0.029	0.0172	0.5	0.005	0.0259	0.0386	0.0276	0.0399	0.0355
48	Chromium	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	0.0033 J
49	Lead	ND	ND	0.0004 J	0.0004 J	ND	0.0005 J	0.015	0.010	ND	ND	ND	ND	ND
50	Nickel	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	0.0453 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 DATA SUMMARY

Monitoring Well: MW-1

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	39 Sep-2012	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.219	0.273 J	0.211
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0061	0.0055	0.0075
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0021	0.0018	0.0020
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	6.40	18.6	10.2
15	2-Hexanone	mg/L	0.04	0.050	0.141	0.196	0.198
16	4-Methyl-2-pentanone	mg/L		0.100	0.900	2.00 J	1.45
17	Acetone	mg/L	6	0.100	6.30	19.1	8.34 J
18	Acrylonitrile	mg/L		0.200	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0141	0.0129	0.0141
20	Bromochloromethane	mg/L		0.003	ND	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	0.0003 J	0.0002 J	ND
27	Chloroethane	mg/L	3	0.010	0.257	0.600 J	0.221
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	0.0298	0.0226	0.0247
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	0.0304	0.0238	0.0301
37	Styrene	mg/L	0.07	0.001	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND
39	Toluene	mg/L	0.6	0.001	0.153	0.370	0.254
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND	0.0169
47	Xylenes	mg/L	0.5	0.005	0.0424	0.0368	0.0437
48	Chromium	mg/L	0.01	0.010	0.0042 J	0.0037 J	0.0040 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	0.0545	0.0526	0.0585

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	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	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	0.0576 J	ND	ND	0.001	0.005	ND	ND	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	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	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	0.0483	0.0403
6	1,1-Dichloroethene	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	0.0036 J	0.0024 J
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	ND	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	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	0.0006 J	ND	ND
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	0.0587	0.0326 J	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	0.0144 J	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	0.0072 J	6	0.100	ND	ND	0.0154 J	0.0999	0.0462 J	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND	ND	ND
19	Benzene	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	0.0022	0.0014
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	0.0007 J	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND	ND	ND
27	Chloroethane	0.010	0.003	J	ND	0.0036 J	0.0027 J	0.0023 J	3	0.010	ND	.0030 J	0.0039 J	0.0072 J	0.0036 J	ND
28	Chloroform	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	J	ND	0.0007 J	ND	ND	0.003	0.001	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	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	0.0018 J	0.0014 J
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	0.004	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	0.0006 J	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	0.0002 J	ND	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND	ND	ND
36	Methylene chloride	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	0.0009 J	0.0014
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	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	0.0044	0.0029
39	Toluene	0.001	ND	ND	ND	0.0006 J	ND	ND	0.6	0.001	ND	.0004 J	0.0005 J	0.0008 J	0.0003 J	ND
40	trans-1,2-Dichloroethene	0.005	ND	ND	ND	0.003 J	ND	ND	0.10	0.005	ND	ND	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	ND	ND
42	trans-1,4-Dichloro-2-butene	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND	ND
43	Trichloroethene	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	0.0056	0.0037
44	Trichlorofluoromethane	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0016	ND	ND
45	Vinyl acetate	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	0.001	ND	ND	ND	0.0011	0.001 J	ND	0.00003	0.001	ND	ND	ND	ND	ND	ND
47	Xylenes	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	0.0127	0.0088
48	Chromium	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	0.0010 J	ND
49	Lead	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	0.0029 J	0.0016 J
50	Nickel	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	0.0058 J	0.0041 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 DATA SUMMARY

Monitoring Well: MW-3

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0414 J	0.0360 J
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.0038 J	0.0035 J
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	0.0076 J	0.0475 J
15	2-Hexanone	mg/L	0.04	0.050	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND
17	Acetone	mg/L	6	0.100	ND	0.0834 J
18	Acrylonitrile	mg/L		0.200	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0015	0.0015
20	Bromochloromethane	mg/L		0.003	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND
27	Chloroethane	mg/L	3	0.010	0.0049 J	0.0020 J
28	Chloroform	mg/L	0.07	0.005	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0012 J	ND
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	0.0047
37	Styrene	mg/L	0.07	0.001	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0025	0.0032
39	Toluene	mg/L	0.6	0.001	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	0.0038 J	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0051	0.0042
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND
47	Xylenes	mg/L	0.5	0.005	0.0099	0.0095
48	Chromium	mg/L	0.01	0.010	0.0011 J	ND
49	Lead	mg/L	0.015	0.010	0.0016 J	0.0046 J
50	Nickel	mg/L	0.1	0.050	0.0025 J	0.0057 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

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		
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	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		
4	1,1,2-Trichloroethane	mg/L		0.005	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		
6	1,1-Dichloroethene	mg/L	0.007	0.005	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		
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	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		
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	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		
12	1,2-Dichloropropane	mg/L	0.00051	0.001	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		
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND			ND		
15	2-Hexanone	mg/L		0.050	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		
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND			ND		
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND		
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND			ND		
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND		
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND			ND		
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND			ND		
23	Bromomethane (Methyl bromide)	mg/L		0.005	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		
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND			ND		
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND			ND		
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND			ND		
28	Chloroform	mg/L	0.07	0.005	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		
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	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		
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND		
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND		
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND			ND		
35	Iodomethane (Methyl iodide)	mg/L		0.025	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		
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND			ND		
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND			ND		
39	Toluene	mg/L	1.0	0.005	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		
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	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		
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	ND			ND		
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND			ND		
45	Vinyl acetate	mg/L		0.025	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		
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND			ND		
48	Chromium	mg/L	0.05	0.010	0.015	ND	ND	ND	ND	ND	ND			ND		
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND			ND		
50	Nickel	mg/L	0.1	0.050	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	38 Mar-2012	39 Sep-2012	40 Mar-2013
1	1,1,1,2-Tetrachloroethane	0.005	ND			ND			0.001	0.005	ND			ND			ND
2	1,1,1-Trichloroethane	0.001	ND			ND			0.2	0.001	ND			ND			ND
3	1,1,2,2-Tetrachloroethane	0.001	ND			ND			0.0002	0.003	ND			ND			ND
4	1,1,2-Trichloroethane	0.005	ND			ND			0.0006	0.001	ND			ND			ND
5	1,1-Dichloroethane	0.001	ND			ND			0.006	0.005	ND			ND			ND
6	1,1-Dichloroethene	0.005	ND			ND			0.007	0.005	ND			ND			ND
7	1,2,3-Trichloropropane	0.001	ND			ND			0.000005	0.001	ND			ND			ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.001	ND			ND			0.00004	0.013	ND			ND			ND
9	1,2-Dibromoethane (EDB)	0.001	ND			ND			0.00002	0.001	ND			ND			ND
10	1,2-Dichlorobenzene	0.005	ND			ND			0.02	0.005	ND			ND			ND
11	1,2-Dichloroethane	0.001	ND			ND			0.0004	0.001	ND			ND			ND
12	1,2-Dichloropropane	0.001	ND			ND			0.0006	0.001	ND			ND			ND
13	1,4-Dichlorobenzene	0.001	ND			ND			0.006	0.001	ND			ND			ND
14	2-Butanone (Methyl ethyl ketone)	0.100	ND			ND			4	0.100	ND			ND			ND
15	2-Hexanone	0.050	ND			ND			0.04	0.050	ND			ND			ND
16	4-Methyl-2-pentanone	0.100	ND			ND				0.100	ND			ND			ND
17	Acetone	0.100	ND			ND			6	0.100	ND			ND			ND
18	Acrylonitrile	0.200	ND			ND				0.200	ND			ND			ND
19	Benzene	0.001	ND			ND			0.001	0.001	ND			ND			ND
20	Bromochloromethane	0.003	ND			ND				0.003	ND			ND			ND
21	Bromodichloromethane	0.001	ND			ND			0.0006	0.001	ND			ND			ND
22	Bromoform	0.003	ND			ND			0.004	0.003	ND			ND			ND
23	Bromomethane (Methyl bromide)	0.010	ND			ND			0.01	0.010	ND			ND			ND
24	Carbon disulfide	0.100	ND			ND			0.7	0.100	ND			ND			ND
25	Carbon tetrachloride	0.001	ND			ND			0.0003	0.001	ND			ND			ND
26	Chlorobenzene	0.003	ND			ND			0.05	0.003	ND			ND			ND
27	Chloroethane	0.010	ND			ND			3	0.010	ND			ND			ND
28	Chloroform	0.005	ND			ND			0.07	0.005	ND			ND			ND
29	Chloromethane (Methyl chloride)	0.001	ND			ND			0.003	0.001	ND			ND			ND
30	cis-1,2-Dichloroethene	0.005	ND			ND			0.07	0.005	ND			ND			ND
31	cis-1,3-Dichloropropene	0.001	ND			ND			0.0004	0.001	ND			ND			ND
32	Dibromochloromethane	0.001	ND			ND			0.0004	0.003	ND			ND			ND
33	Dibromomethane (Methylene bromide)	0.001	ND			ND			0.07	0.001	ND			ND			ND
34	Ethylbenzene	0.001	ND			ND			0.6	0.001	ND			ND			ND
35	Iodomethane (Methyl iodide)	0.010	ND			ND				0.010	ND			ND			ND
36	Methylene chloride	0.001	ND			ND			0.005	0.001	ND			ND			ND
37	Styrene	0.001	ND			ND			0.07	0.001	ND			ND			ND
38	Tetrachloroethene	0.001	ND			ND			0.0007	0.001	ND			ND			ND
39	Toluene	0.001	ND			ND			0.6	0.001	ND			ND			ND
40	trans-1,2-Dichloroethene	0.005	ND			ND			0.10	0.005	ND			ND			ND
41	trans-1,3-Dichloropropene	0.001	ND			ND			0.0004	0.001	ND			ND			ND
42	trans-1,4-Dichloro-2-butene	0.100	ND			ND				0.100	ND			ND			ND
43	Trichloroethene	0.001	ND			ND			0.003	0.001	ND			ND			ND
44	Trichlorofluoromethane	0.001	ND			ND			2	0.001	ND			ND			ND
45	Vinyl acetate	0.050	ND			ND			0.088	0.050	ND			ND			ND
46	Vinyl chloride	0.001	ND			ND			0.00003	0.001	ND			ND			ND
47	Xylenes	0.003	ND			ND			0.5	0.005	ND			ND			ND
48	Chromium	0.010	J			0.0151			0.01	0.010	0.0041 J			0.0037 J			0.0018 J
49	Lead	0.010	ND			0.0013 J			0.015	0.010	0.0006 J			0.0004 J			ND
50	Nickel	0.050	ND			0.0085 J			0.1	0.050	0.0025 J			0.0030 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 DATA SUMMARY

Monitoring Well: MW-7A

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	
5	1,1-Dichloroethane	mg/L	0.006	0.005	
6	1,1-Dichloroethene	mg/L	0.007	0.005	
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	
11	1,2-Dichloroethane	mg/L	0.0004	0.001	
12	1,2-Dichloropropane	mg/L	0.0006	0.001	
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	
15	2-Hexanone	mg/L	0.04	0.050	
16	4-Methyl-2-pentanone	mg/L		0.100	
17	Acetone	mg/L	6	0.100	
18	Acrylonitrile	mg/L		0.200	
19	Benzene	mg/L	0.001	0.001	
20	Bromochloromethane	mg/L		0.003	
21	Bromodichloromethane	mg/L	0.0006	0.001	
22	Bromoform	mg/L	0.004	0.003	
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	
24	Carbon disulfide	mg/L	0.7	0.100	
25	Carbon tetrachloride	mg/L	0.0003	0.001	
26	Chlorobenzene	mg/L	0.05	0.003	
27	Chloroethane	mg/L	3	0.010	
28	Chloroform	mg/L	0.07	0.005	
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	
32	Dibromochloromethane	mg/L	0.0004	0.003	
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	
34	Ethylbenzene	mg/L	0.6	0.001	
35	Iodomethane (Methyl iodide)	mg/L		0.010	
36	Methylene chloride	mg/L	0.005	0.001	
37	Styrene	mg/L	0.07	0.001	
38	Tetrachloroethene	mg/L	0.0007	0.001	
39	Toluene	mg/L	0.6	0.001	
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	
43	Trichloroethene	mg/L	0.003	0.001	
44	Trichlorofluoromethane	mg/L	2	0.001	
45	Vinyl acetate	mg/L	0.088	0.050	
46	Vinyl chloride	mg/L	0.00003	0.001	
47	Xylenes	mg/L	0.5	0.005	
48	Chromium	mg/L	0.01	0.010	
49	Lead	mg/L	0.015	0.010	
50	Nickel	mg/L	0.1	0.050	

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	0.0159	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	0.039	0.077	0.070
48	Chromium	mg/L	0.05	0.010	0.032	0.076	0.0199	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	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	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	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	0.001	0.498	0.369	0.340	0.516	0.508	0.505	0.006	0.005	0.443	0.511	0.476	0.434	0.806	0.354
6	1,1-Dichloroethene	0.005	ND	J	ND	0.0035 J	0.0007 J	ND	0.007	0.005	ND	ND	ND	ND	0.0008 J	ND
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.001	ND	ND	ND	ND	ND	ND	0.000004	0.013	ND	ND	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	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	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	0.0760	0.0710
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	0.0335	0.0060
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	0.0096	0.0046
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	0.0701	ND	ND	ND		0.100	ND	ND	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	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	0.0192	0.0110
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	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	0.0016 J	0.0014 J	0.0015 J	0.0019 J	0.0014 J
27	Chloroethane	0.010	ND	ND	ND	0.0044 J	0.0027	ND	3	0.010	0.0026 J	0.0028 J	0.0031 J	0.0033 J	0.0025 J	ND
28	Chloroform	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	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	0.906	0.157
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.001	0.0108	0.0048	0.0072	0.017	0.0069	0.00138	0.6	0.001	0.032	0.0115	0.0134	0.0065	0.0159	0.0023
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	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	0.0037	0.0075
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	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	0.0014	ND
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	0.0238	0.0043
40	trans-1,2-Dichloroethene	0.005	J	J	ND	0.0005 J	0.0055	0.0046 J	0.10	0.005	0.0066	0.0073	0.0065	0.0088	0.0054	ND
41	trans-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	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	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	0.0029	ND
44	Trichlorofluoromethane	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0024	ND	ND
45	Vinyl acetate	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	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	0.110	0.143
47	Xylenes	0.003	0.079	0.344	0.0593	0.1019	0.0537	0.0371	0.5	0.005	0.1371	0.0567	0.0726	0.0493	0.0765	0.0306
48	Chromium	0.010	J	J	0.0095 J	0.0157	0.0119	0.032	0.1	0.010	0.0034 J	0.0032 J	0.0495	0.0052 J	0.0286	0.0037 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	0.0012 J	0.0041 J	0.0014 J	0.0047 J	0.0012 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	0.325	0.205

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 - Detected 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 DATA SUMMARY

Monitoring Well: MW-9

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.485 J	0.268
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	0.0896	0.117
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0314	0.0229
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0093	0.0096
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0161	0.0182
20	Bromochloromethane	mg/L		0.003	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	0.0016 J	0.0017 J
27	Chloroethane	mg/L	3	0.010	0.0016 J	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.382 E	0.366
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	0.0112	0.0130
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	0.0051	0.0049
37	Styrene	mg/L	0.07	0.001	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0024	0.0013
39	Toluene	mg/L	0.6	0.001	0.0058	0.0056
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	0.0014 J
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0056	0.0020
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0736	0.0932
47	Xylenes	mg/L	0.5	0.005	0.0603	0.0434
48	Chromium	mg/L	0.01	0.010	0.0130	0.0193
49	Lead	mg/L	0.015	0.010	0.0016 J	0.0037 J
50	Nickel	mg/L	0.1	0.050	0.339	0.304

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 - Detected 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	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	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	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	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	.0006 J	ND	ND	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	0.204	0.183 J
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	ND	ND
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	ND	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	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	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	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	0.0066	0.0072
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	0.0206	0.0164
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	0.0068	0.0059
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	0.0068	6	0.100	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	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	0.0055	0.0044
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	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	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	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	0.0011 J	ND
27	Chloroethane	0.010	J	J	ND	0.0013 J	0.0016	0.0021 J	3	0.010	.0025 J	.0025 J	0.0030 J	0.0023 J	ND	ND
28	Chloroform	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	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	0.0029 J	0.0022 J
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	0.0004 J	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND	ND	ND
36	Methylene chloride	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	.0007 J	ND	ND	0.0008 J	ND
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	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	0.0010	ND
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	0.0004 J	0.0015
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	0.0010 J	ND
41	trans-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	.0003 J	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	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	0.0003 J	ND
44	Trichlorofluoromethane	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0019	ND	ND
45	Vinyl acetate	0.050	ND	0.0191	ND	ND	ND	ND	0.088	0.050	ND	ND	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	0.0026	ND
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	0.0010 J	ND
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	0.0086 J	0.0014 J
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	0.0012 J	0.0003 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	0.0096 J	0.0074 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 DATA SUMMARY

Monitoring Well: MW-10A

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.138	0.214
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	0.0072	0.0057
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0133	0.0046
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0058	0.0062
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	0.0306 J
15	2-Hexanone	mg/L	0.04	0.050	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND
17	Acetone	mg/L	6	0.100	ND	0.0589 J
18	Acrylonitrile	mg/L		0.200	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0053	0.0055
20	Bromochloromethane	mg/L		0.003	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	0.0011 J	0.0012 J
27	Chloroethane	mg/L	3	0.010	0.0027 J	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0006 J	0.0005 J
39	Toluene	mg/L	0.6	0.001	0.0008 J	0.0043
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	0.0005 J
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	ND	ND
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND
47	Xylenes	mg/L	0.5	0.005	0.0007 J	0.0022 J
48	Chromium	mg/L	0.01	0.010	0.0024 J	0.0025 J
49	Lead	mg/L	0.015	0.010	0.0005 J	0.0018 J
50	Nickel	mg/L	0.1	0.050	0.0060 J	0.0073 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	SWSL
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
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
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
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
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
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
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
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
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
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
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
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
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
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
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
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
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
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
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
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
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
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
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050
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
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050

	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	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane		0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	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	ND	ND
3	1,1,2,2-Tetrachloroethane		0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane		0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	0.07	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	0.0382	0.0056
6	1,1-Dichloroethene	0.007	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	0.0006 J	ND
7	1,2,3-Trichloropropane	0.0000050	0.001	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	ND	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	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	ND	ND
10	1,2-Dichlorobenzene	0.024	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	0.00038	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	0.00051	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	0.0006 J	ND
13	1,4-Dichlorobenzene	0.0014	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	.0004 J	0.0005 J	0.0016	0.0003 J	ND
14	2-Butanone (Methyl ethyl ketone)	4.20	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	ND	ND	ND
15	2-Hexanone		0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone		0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND	ND
17	Acetone	0.7	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND	ND	ND
18	Acrylonitrile		0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND	ND	ND
19	Benzene	0.001	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND	ND	ND
20	Bromochloromethane		0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	0.00056	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
22	Bromoform	0.00443	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)		0.010	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	0.7	0.100	ND	ND	0.0046 J	ND	0.0024 J	0.0118 J	0.7	0.100	ND	ND	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	ND	ND
26	Chlorobenzene	0.05	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND	ND	ND
27	Chloroethane	2.80	0.010	ND	ND	ND	ND	ND	ND	3	0.010	ND	ND	ND	ND	ND	ND
28	Chloroform	0.07	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	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	ND	ND
30	cis-1,2-Dichloroethene	0.07	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	0.0145	ND
31	cis-1,3-Dichloropropene	0.00019	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane		0.005	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)		0.005	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.550	0.005	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)		0.025	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND	ND	ND
36	Methylene chloride	0.0046	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	0.0014	ND
37	Styrene	0.1	0.005	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	0.0007	0.001	ND	ND	0.0002 J	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND	ND	ND
39	Toluene	1.0	0.005	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	0.10	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	0.00019	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	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	ND	ND
43	Trichloroethene	0.0028	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	0.0057	ND
44	Trichlorofluoromethane	2.1	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0003 J	ND	ND
45	Vinyl acetate		0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	0.000015	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	ND	ND
47	Xylenes	0.53	0.005	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND	ND	ND
48	Chromium	0.05	0.010	J	J	0.0034 J	0.0014 J	ND	ND	0.01	0.010	ND	ND	0.0015 J	ND	ND	ND
49	Lead	0.015	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	0.0006 J	ND
50	Nickel	0.1	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	0.0021 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 DATA SUMMARY

Monitoring Well: MW-10B

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0684	0.0206
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0009 J	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND
20	Bromochloromethane	mg/L		0.003	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND
27	Chloroethane	mg/L	3	0.010	ND	0.0223
28	Chloroform	mg/L	0.07	0.005	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0044 J	ND
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	0.0006 J
37	Styrene	mg/L	0.07	0.001	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0002 J	0.0005 J
39	Toluene	mg/L	0.6	0.001	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0004 J	0.0006 J
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0228	0.0096
47	Xylenes	mg/L	0.5	0.005	ND	ND
48	Chromium	mg/L	0.01	0.010	ND	ND
49	Lead	mg/L	0.015	0.010	0.0002 J	ND
50	Nickel	mg/L	0.1	0.050	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-11

Monitoring Well: MW-11

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
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
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
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
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	0.001
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
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
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
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
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0026	ND	0.0037	0.001
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
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
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.200
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
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
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
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
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	0.001
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
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
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
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
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	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	0.001
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050

	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	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	0.0063	0.0085	0.0082	0.0096	0.0092	0.0098	0.006	0.005	0.0096	0.0108	0.0122	0.0115	0.0094	0.0100
6	1,1-Dichloroethene	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	0.0010 J	ND
7	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	ND	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	ND	ND
9	1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	0.02	0.005	0.0102	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	0.0041	0.006	0.0066	0.0068	0.0081	0.0066	0.0004	0.001	ND	0.0088	0.0108	0.0074	0.0054	0.0052
12	1,2-Dichloropropane	0.001	0.001	0.0011	0.0011	0.0013	0.001	0.0006	0.001	0.0010	0.0010	0.0013	0.0010	0.0010 J	ND
13	1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	0.0003 J	ND	ND
14	2-Butanone (Methyl ethyl ketone)	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	ND	ND	ND
15	2-Hexanone	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND	ND
17	Acetone	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND	ND	ND
19	Benzene	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND	ND	ND
20	Bromochloromethane	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
22	Bromoform	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND	ND	ND
27	Chloroethane	ND	ND	ND	ND	ND	ND	3	0.010	ND	ND	ND	ND	ND	ND
28	Chloroform	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	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	0.0007 J	ND
31	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND	ND	ND
36	Methylene chloride	ND	ND	ND	ND	ND	ND	0.005	0.001	.0007 J	ND	0.0023	0.0008 J	0.0014	ND
37	Styrene	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	J	0.0016	0.0016	0.0019	0.0019	0.0012	0.0007	0.001	ND	0.0018	0.0016	0.0021	0.0021	0.0016
39	Toluene	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND	ND
43	Trichloroethene	0.0012	0.0013	0.0014	0.0014	0.0015	0.0012	0.003	0.001	0.0012	0.0013	0.0016	0.0014	0.0013	ND
44	Trichlorofluoromethane	0.0173	0.0244	0.0211	0.0298	0.0218	0.0249	2	0.001	0.0228	0.0227	0.0253	0.0196	0.0139	0.0115
45	Vinyl acetate	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	ND	ND	ND	ND	ND	ND	0.00003	0.001	ND	ND	ND	ND	ND	ND
47	Xylenes	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND	ND	ND
48	Chromium	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	0.0028 J	0.0022 J
49	Lead	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	0.0005 J	ND
50	Nickel	ND	ND	ND	0.0025 J	ND	0.0022 J	0.1	0.050	ND	ND	0.0023 J	0.0023 J	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 DATA SUMMARY

Monitoring Well: MW-11

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0116	0.0127
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.0011 J	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	0.0062	0.0076
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0010 J	0.0010
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND
20	Bromochloromethane	mg/L		0.003	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND
27	Chloroethane	mg/L	3	0.010	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0008 J	0.0010 J
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	0.0030	0.0014
37	Styrene	mg/L	0.07	0.001	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0017	0.0017
39	Toluene	mg/L	0.6	0.001	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	0.0011 J	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0013	0.0014
44	Trichlorofluoromethane	mg/L	2	0.001	0.0163	0.0136
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND
47	Xylenes	mg/L	0.5	0.005	ND	ND
48	Chromium	mg/L	0.01	0.010	0.0013 J	0.0030 J
49	Lead	mg/L	0.015	0.010	0.0002 J	0.0009 J
50	Nickel	mg/L	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-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	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	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	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	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	0.0348 E	0.0467
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	0.0022 J	ND
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	ND	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	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	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	ND	ND
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	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	0.0004 J	ND
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	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	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND	ND	ND
27	Chloroethane	0.010	ND	ND	ND	ND	ND	ND	3	0.010	ND	ND	ND	ND	ND	ND
28	Chloroform	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	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	0.0503	0.0409
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND	ND	ND
36	Methylene chloride	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND	ND	ND
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	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	0.0028	0.0022
39	Toluene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	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	ND	ND
41	trans-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	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	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	0.0192	0.0183
44	Trichlorofluoromethane	0.001	0.019	0.021	ND	ND	0.0158	0.0186	2	0.001	0.0213	0.0150	ND	0.0126	0.0074	ND
45	Vinyl acetate	0.050	ND	ND	ND	0.0072	ND	ND	0.088	0.050	ND	ND	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	0.005	0.0054
47	Xylenes	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	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	0.0017 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	0.0005 J	ND
50	Nickel	0.050	ND	ND	ND	0.0025 J	ND	0.0022 J	0.1	0.050	ND	ND	ND	ND	ND	0.0075 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 DATA SUMMARY

Monitoring Well: MW-13

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0417 J	0.0455 J
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.0022 J	0.0022 J
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0004 J	0.0005 J
20	Bromochloromethane	mg/L		0.003	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND
27	Chloroethane	mg/L	3	0.010	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0412 J	0.0476 J
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0024	0.0026
39	Toluene	mg/L	0.6	0.001	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	0.0021 J	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0213	0.0220
44	Trichlorofluoromethane	mg/L	2	0.001	0.0101	0.0080
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0062	0.0057
47	Xylenes	mg/L	0.5	0.005	ND	ND
48	Chromium	mg/L	0.01	0.010	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND
50	Nickel	mg/L	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-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	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	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane		0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.2	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	ND	.0004 J	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane		0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane		0.005	ND	ND	ND	0.0006 J	ND	ND	0.0006	0.001	.0016 J	.0011 J	0.0008 J	ND	ND	ND
5	1,1-Dichloroethane	0.07	0.001	0.563	0.267	0.169	0.232	0.18	0.514	0.06	0.005	0.356	0.254	0.419	0.242	ND	0.271
6	1,1-Dichloroethene	0.007	0.005	ND	J	ND	ND	ND	ND	0.007	0.005	.0006 J	ND	0.0017 J	ND	0.0005 J	ND
7	1,2,3-Trichloropropane	0.000005	0.001	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.00004	0.013	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	0.00002	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.02	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	0.0008 J	ND
11	1,2-Dichloroethane	0.0004	0.001	ND	ND	0.0077	ND	ND	0.003	0.0004	0.001	0.007	0.0068	0.0071	0.0051	ND	0.0041
12	1,2-Dichloropropane	0.0006	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	0.0038	0.0032
13	1,4-Dichlorobenzene	0.006	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	0.0246	0.0234
14	2-Butanone (Methyl ethyl ketone)	4	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	ND	ND	ND
15	2-Hexanone	0.04	0.050	ND	ND	0.0069 J	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone		0.100	J	J	0.03 J	0.0235 J	0.0297 J	ND		0.100	ND	ND	ND	ND	ND	ND
17	Acetone	6	0.100	J	0.182	0.119	0.127	ND	ND	6	0.100	ND	ND	ND	ND	ND	ND
18	Acrylonitrile		0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND	ND	ND
19	Benzene	0.001	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	0.0162	0.0135
20	Bromochloromethane		0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	0.0006	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
22	Bromoform	0.004	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.01	0.010	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	0.7	0.100	ND	J	0.0068 J	ND	0.0043 J	ND	0.7	0.100	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	0.0003	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	0.05	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	0.0098	0.0088
27	Chloroethane	3	0.010	ND	0.0389	ND	0.0029 J	ND	0.0086 J	3	0.010	0.0223	0.0145	0.0129	0.0145	0.0102	0.0074 J
28	Chloroform	0.07	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.003	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	0.07	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	0.525	ND
31	cis-1,3-Dichloropropene	0.0004	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	0.0004	0.003	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.07	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.6	0.001	0.045	0.0417	0.0202	0.0475	0.0116	0.0706	0.6	0.001	0.039	0.0557	0.0641	0.0167	0.0036	0.0092
35	Iodomethane (Methyl iodide)		0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND	ND	ND
36	Methylene chloride	0.005	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	0.0024	0.0118
37	Styrene	0.07	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	0.0007	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	0.0027	0.0021
39	Toluene	0.6	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	0.0068	0.0124
40	trans-1,2-Dichloroethene	0.10	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	0.0016 J	ND
41	trans-1,3-Dichloropropene	0.0004	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	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	ND	ND
43	Trichloroethene	0.003	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	0.0183	0.0120
44	Trichlorofluoromethane	2	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0031	ND	ND
45	Vinyl acetate	0.088	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	0.00003	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	0.0828	0.0636
47	Xylenes	0.5	0.005	0.178	0.162	0.104	0.196	0.0767	0.128	0.5	0.005	0.224	0.300	0.227	0.210	0.320	0.261
48	Chromium	0.01	0.010	J	ND	0.0024 J	ND	ND	ND	0.01	0.010	ND	ND	0.0018 J	ND	ND	ND
49	Lead	0.015	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	ND	0.0007 J
50	Nickel	0.1	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	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 DATA SUMMARY

Monitoring Well: MW-14

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.224	0.181
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	0.0006 J	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	0.0036	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0034	0.0036
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0196	0.0232
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0158	0.0131
20	Bromochloromethane	mg/L		0.003	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	0.0081	0.0080
27	Chloroethane	mg/L	3	0.010	0.0072 J	0.0036 J
28	Chloroform	mg/L	0.07	0.005	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0754	0.251
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	0.0068	0.0048
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	0.0035	ND
37	Styrene	mg/L	0.07	0.001	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0017	0.0037
39	Toluene	mg/L	0.6	0.001	0.0050	0.0041
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0114	0.0232
44	Trichlorofluoromethane	mg/L	2	0.001	ND	0.0021
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0211	0.0286
47	Xylenes	mg/L	0.5	0.005	0.200	0.234
48	Chromium	mg/L	0.01	0.010	ND	ND
49	Lead	mg/L	0.015	0.010	ND	0.0006 J
50	Nickel	mg/L	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-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
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	0.007	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	0.012	0.008	0.010	0.009	0.011	0.009	0.011	0.014	0.016	0.0197	0.0151	0.0145
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	0.0016	0.002	0.003	0.0027	0.0032	0.003
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	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	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	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	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	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	0.0033 J	ND
6	1,1-Dichloroethene	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	ND	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	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	.0009 J	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	0.001	ND	ND	0.0006 J	ND	ND	0.0007 J	0.0004	0.001	ND	0.0012	0.0014	0.0012	0.0011	ND
12	1,2-Dichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	0.0050	0.0004 J	ND
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND	ND	ND
19	Benzene	0.001	ND	ND	ND	ND	ND	ND	0.001	0.001	ND	ND	ND	ND	ND	ND
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	0.0117 J	ND	0.0024 J	ND	0.7	0.100	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND	ND	ND
27	Chloroethane	0.010	ND	ND	ND	ND	ND	ND	3	0.010	ND	ND	ND	ND	ND	ND
28	Chloroform	0.005	ND	ND	0.0003 J	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	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	0.0028 J	ND
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND	ND	ND
36	Methylene chloride	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND	ND	ND
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	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	0.0314	0.0203
39	Toluene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	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	ND	ND
41	trans-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	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	ND	ND
43	Trichloroethene	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	0.0064	0.0049
44	Trichlorofluoromethane	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	0.0014	ND
45	Vinyl acetate	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	0.001	ND	ND	ND	ND	ND	ND	0.00003	0.001	ND	ND	ND	ND	ND	ND
47	Xylenes	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	0.0024 J	0.0004 J	ND
48	Chromium	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	0.0049 J	0.0046 J
49	Lead	0.010	ND	ND	0.0004 J	0.0005 J	ND	ND	0.015	0.010	ND	ND	0.0003 J	0.0002 J	0.0009 J	0.0002 J
50	Nickel	0.050	ND	ND	ND	ND	ND	ND	0.1	0.050	ND	ND	ND	0.0024 J	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 DATA SUMMARY

Monitoring Well: MW-14A

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0037 J	0.0035 J
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	0.0012	0.0014
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND
20	Bromochloromethane	mg/L		0.003	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND
27	Chloroethane	mg/L	3	0.010	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0035 J	0.0034 J
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0241	0.0221
39	Toluene	mg/L	0.6	0.001	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0073	0.0067
44	Trichlorofluoromethane	mg/L	2	0.001	0.0020	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND
47	Xylenes	mg/L	0.5	0.005	ND	ND
48	Chromium	mg/L	0.01	0.010	0.0044 J	0.0038 J
49	Lead	mg/L	0.015	0.010	0.0003 J	0.0002 J
50	Nickel	mg/L	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 unde 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 M 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	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	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane		0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.2	0.001	ND	0.0015	ND	ND	ND	0.0008 J	0.2	0.001	ND	.0008 J	0.0006 J	0.0006 J	ND	ND
3	1,1,2,2-Tetrachloroethane		0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane		0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	0.07	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	ND	0.246
6	1,1-Dichloroethene	0.007	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	0.0016 J	ND
7	1,2,3-Trichloropropane	0.0000050	0.001	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	ND	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	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	ND	ND
10	1,2-Dichlorobenzene	0.024	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	0.0006 J	ND
11	1,2-Dichloroethane	0.00038	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	.0006 J	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	0.00051	0.001	ND	0.0013	0.002	0.002	0.002	ND	0.0006	0.001	0.0011	0.0012	0.0015	0.0013	0.0010	ND
13	1,4-Dichlorobenzene	0.0014	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	0.0044	0.0040
14	2-Butanone (Methyl ethyl ketone)	4.20	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	ND	ND	ND
15	2-Hexanone		0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone		0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND	ND
17	Acetone	0.7	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND	ND	ND
18	Acrylonitrile		0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND	ND	ND
19	Benzene	0.001	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	0.0118	0.0088
20	Bromochloromethane		0.003	ND	ND	ND	ND	ND	ND		0.003	ND	0.0039	ND	ND	ND	ND
21	Bromodichloromethane	0.00056	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
22	Bromoform	0.00443	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)		0.010	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	0.7	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	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	ND	ND
26	Chlorobenzene	0.05	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	0.0041	0.0035
27	Chloroethane	2.80	0.010	ND	J	ND	0.0024 J	0.0021 J	0.0022 J	3	0.010	.0017 J	.0023 J	0.0022 J	0.0019 J	0.0014 J	ND
28	Chloroform	0.07	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	ND	ND
29	Chloromethane (Methyl chloride)	0.0026	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	0.07	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	0.383	0.238
31	cis-1,3-Dichloropropene	0.00019	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane		0.005	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)		0.005	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.550	0.005	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)		0.025	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND	ND	ND
36	Methylene chloride	0.0046	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	0.153	0.0801
37	Styrene	0.1	0.005	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	0.0007	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	0.0060	0.0042
39	Toluene	1.0	0.005	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	ND	ND
40	trans-1,2-Dichloroethene	0.10	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	0.0016 J	ND
41	trans-1,3-Dichloropropene	0.00019	0.001	0.054	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	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	ND	ND
43	Trichloroethene	0.0028	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	0.104	0.0870
44	Trichlorofluoromethane	2.1	0.001	0.043	ND	ND	ND	0.00226 J	0.032	2	0.001	0.025	0.0233	0.0229	0.0165	0.0054	ND
45	Vinyl acetate		0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	0.000015	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	0.0122	ND
47	Xylenes	0.53	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	0.0380	0.0306
48	Chromium	0.05	0.010	ND	ND	0.004 J	0.0016 J	ND	ND	0.01	0.010	ND	ND	0.0015 J	0.0012 J	ND	ND
49	Lead	0.015	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	0.0004 J	0.0007 J
50	Nickel	0.1	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	0.0046 J	0.0040 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.

Monitoring Well: MW-15

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013		
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND		
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND		
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND		
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND		
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.291	0.221		
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.0015 J	0.0011 J		
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND		
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND		
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND		
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	0.0007 J	0.0006 J		
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND		
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0010	0.0010		
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0044	0.0037		
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND		
15	2-Hexanone	mg/L	0.04	0.050	ND	ND		
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND		
17	Acetone	mg/L	6	0.100	ND	ND		
18	Acrylonitrile	mg/L		0.200	ND	ND		
19	Benzene	mg/L	0.001	0.001	0.0122	0.0101		
20	Bromochloromethane	mg/L		0.003	ND	ND		
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND		
22	Bromoform	mg/L	0.004	0.003	ND	ND		
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND		
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND		
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND		
26	Chlorobenzene	mg/L	0.05	0.003	0.0041	0.0035		
27	Chloroethane	mg/L	3	0.010	0.0017 J	ND		
28	Chloroform	mg/L	0.07	0.005	0.0003 J	ND		
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND		
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.353	0.242		
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND		
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND		
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND		
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND		
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND		
36	Methylene chloride	mg/L	0.005	0.001	0.0834	0.0450		
37	Styrene	mg/L	0.07	0.001	ND	ND		
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0044	0.0040		
39	Toluene	mg/L	0.6	0.001	ND	ND		
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	0.0015 J	ND		
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND		
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND		
43	Trichloroethene	mg/L	0.003	0.001	0.101	0.0748		
44	Trichlorofluoromethane	mg/L	2	0.001	ND	0.0076		
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND		
46	Vinyl chloride	mg/L	0.00003	0.001	0.0166	0.0116		
47	Xylenes	mg/L	0.5	0.005	0.0386	0.0293		
48	Chromium	mg/L	0.01	0.010	0.0025 J	ND		
49	Lead	mg/L	0.015	0.010	0.0015 J	0.0007 J		
50	Nickel	mg/L	0.1	0.050	0.0056 J	0.0042 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
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	0.053	0.047	0.045	0.061	0.087	0.085	0.109	0.089	0.126	0.148	0.144	0.131
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	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	0.001	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	0.004	0.003	0.0038	0.004	0.005	0.005	0.004	0.0036
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	0.011	ND	0.011	ND	ND	ND	0.0142	0.013	0.014	ND	0.0136	0.0133
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	0.024	0.028	0.027	0.025	0.041	0.024	0.0322	0.026	0.027	0.025	0.0173	0.0158
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	0.003	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	ND	ND	ND	ND	ND	0.003	0.0027	0.002	0.003	0.0025	0.0014	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	0.044	0.029	0.035	0.024	0.031	0.024	0.040	0.035	0.055	0.0425	0.0416	0.0400
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
45	Vinyl acetate	mg/L		0.025	ND	ND	0.014	ND	ND	ND	ND	ND	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
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	0.0459	0.024	0.015	0.016	0.0102	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	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	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane		0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	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	ND	ND
3	1,1,2,2-Tetrachloroethane		0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane		0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	0.07	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	0.152	0.125
6	1,1-Dichloroethene	0.007	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	0.0016	ND
7	1,2,3-Trichloropropane	0.0000050	0.001	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	ND	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	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	ND	ND
10	1,2-Dichlorobenzene	0.024	0.001	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	0.00038	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	.0005 J	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	0.00051	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	0.0008 J	ND
13	1,4-Dichlorobenzene	0.0014	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	0.0005 J	ND
14	2-Butanone (Methyl ethyl ketone)	4.20	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	ND	ND	ND
15	2-Hexanone		0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone		0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND	ND
17	Acetone	0.7	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND	ND	ND
18	Acrylonitrile		0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND	ND	ND
19	Benzene	0.001	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	0.0026	0.0016
20	Bromochloromethane		0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	0.00056	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
22	Bromoform	0.00443	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)		0.010	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	0.7	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	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	ND	ND
26	Chlorobenzene	0.05	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND	ND	ND
27	Chloroethane	2.80	0.010	0.0112	0.0116	0.0101	0.0098 J	0.0071 J	0.0074 J	3	0.010	0.0039 J	.0070 J	0.0070 J	0.0101	0.0090	ND
28	Chloroform	0.07	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	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	ND	ND
30	cis-1,2-Dichloroethene	0.07	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	0.0155	0.0116
31	cis-1,3-Dichloropropene	0.00019	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane		0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)		0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.550	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)		0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND	ND	ND
36	Methylene chloride	0.0046	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND	ND	ND
37	Styrene	0.1	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	0.0007	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	0.0015	ND
39	Toluene	1.0	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	0.10	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	.0005 J	ND	0.0007 J	ND	ND
41	trans-1,3-Dichloropropene	0.00019	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	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	ND	ND
43	Trichloroethene	0.0028	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	0.0182	0.0094
44	Trichlorofluoromethane	2.1	0.001	ND	ND	ND	ND	ND	0.0099	2	0.001	0.0125	0.0109	0.0112	0.0105	0.0045	ND
45	Vinyl acetate		0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	0.000015	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	0.0078	ND
47	Xylenes	0.53	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	0.0007 J	ND	ND
48	Chromium	0.05	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	0.0126	0.0039 J
49	Lead	0.015	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	0.0007 J	0.0004 J
50	Nickel	0.1	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	0.0145 J	0.0112 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 DATA SUMMARY

Monitoring Well: MW-16

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.108	0.114
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.0010 J	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0006 J	0.0007 J
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0005 J	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0019	0.0021
20	Bromochloromethane	mg/L		0.003	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND
27	Chloroethane	mg/L	3	0.010	0.0140	0.0104
28	Chloroform	mg/L	0.07	0.005	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0122	0.0097
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0008 J	ND
39	Toluene	mg/L	0.6	0.001	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	0.0010 J	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0116	0.0087
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0067	0.0060
47	Xylenes	mg/L	0.5	0.005	ND	ND
48	Chromium	mg/L	0.01	0.010	0.0193	0.0222
49	Lead	mg/L	0.015	0.010	0.0018 J	0.0017 J
50	Nickel	mg/L	0.1	0.050	0.0190 J	0.0184 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	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	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	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	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	ND	0.0402 J
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	0.0024	ND
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	ND	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	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	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	ND	ND
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	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	ND	ND
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	.0020 J	ND	ND	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND	ND	ND
27	Chloroethane	0.010	ND	ND	ND	ND	ND	ND	3	0.010	ND	ND	ND	ND	ND	ND
28	Chloroform	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	J	ND	ND	ND	ND	0.003	0.001	ND	ND	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	0.0470	ND
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND	ND	ND
36	Methylene chloride	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND	ND	ND
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	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	0.0020	0.0015
39	Toluene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	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	ND	ND
41	trans-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	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	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	0.0175	0.0149
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	0.0102	ND
45	Vinyl acetate	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	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	0.0041	ND
47	Xylenes	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND	ND	ND
48	Chromium	0.010	ND	ND	0.002 J	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND
49	Lead	0.010	ND	ND	ND	0.0003 J	ND	ND	0.015	0.010	ND	ND	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	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 DATA SUMMARY

Monitoring Well: MW-16A

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0385 J	0.0377 J
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.0026 J	0.0022 J
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0003 J	ND
20	Bromochloromethane	mg/L		0.003	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND
27	Chloroethane	mg/L	3	0.010	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0397 J	0.0389 J
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0015	0.0019
39	Toluene	mg/L	0.6	0.001	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	0.0025 J	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0177	0.0176
44	Trichlorofluoromethane	mg/L	2	0.001	0.0129	0.0096
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0053	0.0040
47	Xylenes	mg/L	0.5	0.005	ND	ND
48	Chromium	mg/L	0.01	0.010	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND
50	Nickel	mg/L	0.1	0.050	0.0080 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

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		
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	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		
4	1,1,2-Trichloroethane	mg/L		0.005	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		
6	1,1-Dichloroethene	mg/L	0.007	0.005	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		
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	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		
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	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		
12	1,2-Dichloropropane	mg/L	0.00051	0.001	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		
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND			ND		
15	2-Hexanone	mg/L		0.050	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		
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND			ND		
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND		
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND			ND		
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND		
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND			ND		
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND			ND		
23	Bromomethane (Methyl bromide)	mg/L		0.005	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		
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND			ND		
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND			ND		
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND			ND		
28	Chloroform	mg/L	0.07	0.005	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		
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	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		
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND		
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND		
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND			ND		
35	Iodomethane (Methyl iodide)	mg/L		0.025	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		
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND			ND		
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND			ND		
39	Toluene	mg/L	1.0	0.005	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		
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	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		
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	ND			ND		
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND			ND		
45	Vinyl acetate	mg/L		0.025	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		
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND			ND		
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND			ND		
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND			ND		
50	Nickel	mg/L	0.1	0.050	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	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane	0.005	ND			ND			0.001	0.005	ND			ND		
2	1,1,1-Trichloroethane	0.001	ND			ND			0.2	0.001	ND			ND		
3	1,1,2,2-Tetrachloroethane	0.001	ND			ND			0.0002	0.003	ND			ND		
4	1,1,2-Trichloroethane	0.005	ND			ND			0.0006	0.001	ND			ND		
5	1,1-Dichloroethane	0.001	ND			ND			0.006	0.005	ND			ND		
6	1,1-Dichloroethene	0.005	ND			ND			0.007	0.005	ND			ND		
7	1,2,3-Trichloropropane	0.001	ND			ND			0.000005	0.001	ND			ND		
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.001	ND			ND			0.00004	0.013	ND			ND		
9	1,2-Dibromoethane (EDB)	0.001	ND			ND			0.00002	0.001	ND			ND		
10	1,2-Dichlorobenzene	0.005	ND			ND			0.02	0.005	ND			ND		
11	1,2-Dichloroethane	0.001	ND			ND			0.0004	0.001	ND			ND		
12	1,2-Dichloropropane	0.001	ND			ND			0.0006	0.001	ND			ND		
13	1,4-Dichlorobenzene	0.001	ND			ND			0.006	0.001	ND			ND		
14	2-Butanone (Methyl ethyl ketone)	0.100	ND			ND			4	0.100	ND			ND		
15	2-Hexanone	0.050	ND			ND			0.04	0.050	ND			ND		
16	4-Methyl-2-pentanone	0.100	ND			ND				0.100	ND			ND		
17	Acetone	0.100	ND			ND			6	0.100	ND			ND		
18	Acrylonitrile	0.200	ND			ND				0.200	ND			ND		
19	Benzene	0.001	ND			ND			0.001	0.001	ND			ND		
20	Bromochloromethane	0.003	ND			ND				0.003	ND			ND		
21	Bromodichloromethane	0.001	ND			ND			0.0006	0.001	ND			ND		
22	Bromoform	0.003	ND			ND			0.004	0.003	ND			ND		
23	Bromomethane (Methyl bromide)	0.010	ND			ND			0.01	0.010	ND			ND		
24	Carbon disulfide	0.100	ND			ND			0.7	0.100	ND			ND		
25	Carbon tetrachloride	0.001	ND			ND			0.0003	0.001	ND			ND		
26	Chlorobenzene	0.003	ND			ND			0.05	0.003	ND			ND		
27	Chloroethane	0.010	ND			ND			3	0.010	ND			ND		
28	Chloroform	0.005	ND			ND			0.07	0.005	ND			ND		
29	Chloromethane (Methyl chloride)	0.001	ND			ND			0.003	0.001	ND			ND		
30	cis-1,2-Dichloroethene	0.005	ND			ND			0.07	0.005	ND			ND		
31	cis-1,3-Dichloropropene	0.001	ND			ND			0.0004	0.001	ND			ND		
32	Dibromochloromethane	0.001	ND			ND			0.0004	0.003	ND			ND		
33	Dibromomethane (Methylene bromide)	0.001	ND			ND			0.07	0.001	ND			ND		
34	Ethylbenzene	0.001	ND			ND			0.6	0.001	ND			ND		
35	Iodomethane (Methyl iodide)	0.010	ND			ND				0.010	ND			ND		
36	Methylene chloride	0.001	ND			ND			0.005	0.001	ND			ND		
37	Styrene	0.001	ND			ND			0.07	0.001	ND			ND		
38	Tetrachloroethene	0.001	ND			ND			0.0007	0.001	ND			ND		
39	Toluene	0.001	ND			ND			0.6	0.001	ND			ND		
40	trans-1,2-Dichloroethene	0.005	ND			ND			0.10	0.005	ND			ND		
41	trans-1,3-Dichloropropene	0.001	ND			ND			0.0004	0.001	ND			ND		
42	trans-1,4-Dichloro-2-butene	0.100	ND			ND				0.100	ND			ND		
43	Trichloroethene	0.001	ND			ND			0.003	0.001	ND			ND		
44	Trichlorofluoromethane	0.001	ND			ND			2	0.001	ND			ND		
45	Vinyl acetate	0.050	ND			ND			0.088	0.050	ND			ND		
46	Vinyl chloride	0.001	ND			ND			0.00003	0.001	ND			ND		
47	Xylenes	0.003	ND			ND			0.5	0.005	ND			ND		
48	Chromium	0.010	J			0.0028 J			0.01	0.010	0.0020 J			0.0020 J		
49	Lead	0.010	ND			0.0002 J			0.015	0.010	ND			ND		
50	Nickel	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 DATA SUMMARY

Monitoring Well: MW-18

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	
5	1,1-Dichloroethane	mg/L	0.006	0.005	ND	
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	
15	2-Hexanone	mg/L	0.04	0.050	ND	
16	4-Methyl-2-pentanone	mg/L		0.100	ND	
17	Acetone	mg/L	6	0.100	ND	
18	Acrylonitrile	mg/L		0.200	ND	
19	Benzene	mg/L	0.001	0.001	ND	
20	Bromochloromethane	mg/L		0.003	ND	
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	
22	Bromoform	mg/L	0.004	0.003	ND	
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	
24	Carbon disulfide	mg/L	0.7	0.100	ND	
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	
26	Chlorobenzene	mg/L	0.05	0.003	ND	
27	Chloroethane	mg/L	3	0.010	ND	
28	Chloroform	mg/L	0.07	0.005	ND	
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	
34	Ethylbenzene	mg/L	0.6	0.001	ND	
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	
36	Methylene chloride	mg/L	0.005	0.001	ND	
37	Styrene	mg/L	0.07	0.001	ND	
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	
39	Toluene	mg/L	0.6	0.001	ND	
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	
43	Trichloroethene	mg/L	0.003	0.001	ND	
44	Trichlorofluoromethane	mg/L	2	0.001	ND	
45	Vinyl acetate	mg/L	0.088	0.050	ND	
46	Vinyl chloride	mg/L	0.00003	0.001	ND	
47	Xylenes	mg/L	0.5	0.005	ND	
48	Chromium	mg/L	0.01	0.010	0.0019 J	
49	Lead	mg/L	0.015	0.010	ND	
50	Nickel	mg/L	0.1	0.050	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
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	0.006	ND	0.006	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	0.424	0.299*	0.469	0.009	0.568	0.547	0.890	0.010	0.802	0.460	0.793	0.890
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
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	0.0053	0.004	0.0039
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	0.012	0.010	ND	ND	0.019	0.021	0.0192	0.016	0.011	0.022	0.0164	0.0151
20	Bromochloromethane	mg/L		0.005	0.008	ND	ND	ND	ND	ND	0.0177	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	0.008	ND	ND	ND	ND	ND	0.0072	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	0.099	0.094*	0.166	0.240	0.223	0.174	0.444	0.266	0.634	0.375	0.636	0.869
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	1.93	0.904*	0.611	1.10	6.48	3.59	3.05	0.204	ND	0.201	0.334	0.071
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	0.026	0.026*	0.043	0.037	0.036	0.043	0.0621	0.037	0.040	0.0222	0.0284	0.0450
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	0.010	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	0.116	0.095*	0.221	0.189	0.190	0.175	0.466	0.134	0.585	0.198	0.520	0.493
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
45	Vinyl acetate	mg/L		0.025	ND	0.638	ND	ND	ND	ND	ND	ND	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
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
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	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.001	0.002	0.002	ND	ND	0.0022	0.0021	0.2	0.001	0.0023	0.0016	0.0015	0.0031	0.0017	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	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	ND	0.460
6	1,1-Dichloroethene	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	ND	0.0086
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	ND	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	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND	0.0004 J	ND
11	1,2-Dichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	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	0.0085	0.0069
13	1,4-Dichlorobenzene	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	0.0039	0.0033
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND	ND	ND
19	Benzene	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	0.0187	0.0129
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	.0014 J	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	0.0024 J	ND	ND	ND	0.7	0.100	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	0.0004 J	0.0003 J	ND	0.0003	0.001	ND	.0002 J	0.0003 J	ND	ND	ND
26	Chlorobenzene	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	0.0017	0.0013 J
27	Chloroethane	0.010	J	J	0.0013 J	ND	0.001 J	ND	3	0.010	.0011 J	.0012 J	0.0010 J	ND	0.0007 J	ND
28	Chloroform	0.005	ND	ND	ND	ND	0.0004 J	0.0004 J	0.07	0.005	.0005 J	.0004 J	0.0004 J	ND	0.0004 J	ND
29	Chloromethane (Methyl chloride)	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	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	2.38	0.977
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND	ND	ND
36	Methylene chloride	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	0.154	0.0510
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	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	0.146	0.0545
39	Toluene	0.001	ND	ND	ND	ND	ND	0.0002 J	0.6	0.001	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	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	0.0027	ND
41	trans-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	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	ND	ND
43	Trichloroethene	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	1.51	0.757
44	Trichlorofluoromethane	0.001	ND	0.0161	ND	ND	ND	0.0151	2	0.001	0.0164	0.0188	0.0214	0.0174	0.0141	ND
45	Vinyl acetate	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	0.001	ND	0.0074	0.0058	0.006	0.0052	0.0059	0.00003	0.001	0.0065	0.0057	0.0057	ND	0.0051	0.0046
47	Xylenes	0.003	J	ND	0.004	0.0031	0.0037	0.0078	0.5	0.005	0.0125	0.0182	0.0142	0.0172	0.0156	0.0094
48	Chromium	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	ND	ND
49	Lead	0.010	ND	ND	0.0002 J	0.0002 J	ND	ND	0.015	0.010	ND	.0003 J	0.0003 J	ND	0.0002 J	ND
50	Nickel	0.050	J	J	0.0029 J	0.0033 J	ND	ND	0.1	0.050	ND	ND	0.0033 J	0.0030 J	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 DATA SUMMARY

Monitoring Well: MW-20

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	0.0014	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.712	0.386 J
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.0110	0.0065
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	0.0005 J
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0073	0.0072
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0033	0.0034
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0160	0.0164
20	Bromochloromethane	mg/L		0.003	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	0.0013 J	0.0014 J
27	Chloroethane	mg/L	3	0.010	ND	ND
28	Chloroform	mg/L	0.07	0.005	0.0004 J	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	1.75	0.966
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	0.0850 J	0.0662
37	Styrene	mg/L	0.07	0.001	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0605	0.0605
39	Toluene	mg/L	0.6	0.001	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	0.0109	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	1.36	0.708
44	Trichlorofluoromethane	mg/L	2	0.001	0.0200	0.0179
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0064	0.0055
47	Xylenes	mg/L	0.5	0.005	0.0125	0.0194
48	Chromium	mg/L	0.01	0.010	ND	ND
49	Lead	mg/L	0.015	0.010	0.0002 J	0.0002 J
50	Nickel	mg/L	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-21

Monitoring Well: MW-21

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	38 Mar-2012	39 Sep-2012
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	0.001	0.005	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	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	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	0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.006	0.005	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	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	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	0.001	ND	ND	ND	ND	ND	ND	0.000005	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	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	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	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	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	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	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	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	0.100	ND	ND	ND	ND	ND	ND	4	0.100	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	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	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	0.100	ND	ND	ND	ND	ND	ND		0.100	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	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	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	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	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	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	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	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	0.01	0.010	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	0.100	ND	ND	ND	ND	0.0018 J	ND	0.7	0.100	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	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	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	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	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	0.010	ND	ND	ND	ND	ND	ND	3	0.010	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	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	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	0.001	ND	ND	ND	ND	ND	ND	0.003	0.001	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	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	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	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	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	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	0.07	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	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	0.010	ND	ND	ND	ND	ND	ND		0.010	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	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	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	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	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	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	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	0.100	ND	ND	ND	ND	ND	ND		0.100	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	0.001	ND	ND	ND	ND	0.0004 J	ND	0.003	0.001	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	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	0.0004 J	ND
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	0.088	0.050	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	0.001	ND	ND	ND	ND	ND	ND	0.00003	0.001	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	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	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	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	0.0026 J	0.0023 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	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	0.0031 J	0.0035 J	ND	ND	0.1	0.050	ND	ND	ND	0.0027 J	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 DATA SUMMARY

Monitoring Well: MW-21

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	ND	ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND
20	Bromochloromethane	mg/L		0.003	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND
27	Chloroethane	mg/L	3	0.010	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0002 J	ND
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND
39	Toluene	mg/L	0.6	0.001	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0003 J	0.0005 J
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND
47	Xylenes	mg/L	0.5	0.005	ND	ND
48	Chromium	mg/L	0.01	0.010	0.0057 J	0.0021 J
49	Lead	mg/L	0.015	0.010	ND	0.0007 J
50	Nickel	mg/L	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-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	16 Mar-2012	17 Sep-2012	18 Mar-2013	19 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	ND	ND	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	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	0.0002	0.003	ND	ND	ND	ND	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	0.0006	0.001	ND	ND	ND	ND	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	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	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	0.000005	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND	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	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	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	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	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	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	0.100	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	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	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	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	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	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	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	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	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	0.01	0.010	ND	ND	ND	ND	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	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	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	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	0.010	ND	ND	ND	ND	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	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	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	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	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	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	0.07	0.001	ND	ND	ND	ND	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	0.6	0.001	ND	ND	ND	ND	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	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	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	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	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	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	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	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	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	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	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	ND	ND	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	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	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	ND	ND	ND	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	0.0008 J	0.0013 J	0.0009 J	0.0007 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	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-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	16 Mar-2012	17 Sep-2012	18 Mar-2013	19+ Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	ND	ND	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	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	0.0002	0.003	ND	ND	ND	ND	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	0.0006	0.001	ND	ND	ND	ND	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	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	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	0.000005	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND	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	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	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	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	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	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	0.100	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	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	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	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	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	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	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	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	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	0.01	0.010	ND	ND	ND	ND	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	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	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	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	0.010	ND	ND	ND	ND	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	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	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	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	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	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	0.07	0.001	ND	ND	ND	ND	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	0.6	0.001	ND	ND	ND	ND	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	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	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	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	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	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	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	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	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	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	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	ND	ND	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	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	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	0.0035 J	ND	0.0046 J	0.0013 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	0.0014 J	0.0004 J	0.0012 J	0.0005 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	0.0040 J	0.0020 J	ND	0.0053 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	16 Mar-2012	17 Sep-2012	18 Mar-2013	19 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	ND	ND	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	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	0.0002	0.003	ND	ND	ND	ND	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	0.0006	0.001	ND	ND	ND	ND	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	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	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	0.000005	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	ND	ND	ND	ND	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	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	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	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	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	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	0.100	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	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	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	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	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	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	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	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	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	0.01	0.010	ND	ND	ND	ND	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	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	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	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	0.010	ND	ND	ND	ND	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	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	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	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	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	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	0.07	0.001	ND	ND	ND	ND	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	0.6	0.001	ND	ND	ND	ND	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	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	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	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	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	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	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	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	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	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	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	ND	ND	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	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	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	0.0032 J	0.0018 J	0.0022 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	0.0007 J	0.0005 J	0.0007 J	0.0005 J
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	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

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	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	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	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	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	0.0491	0.0516
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	ND	ND
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	ND	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	ND	ND
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	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	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	0.0011	ND
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	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	0.0052	0.0037
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	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	0.0024	0.0021 J
27	Chloroethane	0.010	J	0.013	ND	0.012	0.011	0.02298	3	0.010	0.0193	0.0175	0.0128	0.0091 J	0.0098	0.0086 J
28	Chloroform	0.005	ND	ND	0.0003 J	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	J	ND	ND	ND	ND	0.003	0.001	ND	ND	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	0.0377	0.0327
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.001	0.0017	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	0.0036	ND	ND	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	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	0.0014	0.0013
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	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	0.0057	0.0043
39	Toluene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	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	ND	ND
41	trans-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	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	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	0.0095	0.0071
44	Trichlorofluoromethane	0.001	ND	J	ND	ND	ND	0.0017	2	0.001	0.002	0.0017	0.0009 J	0.0008 J	ND	ND
45	Vinyl acetate	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	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	0.0119	ND
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	0.0085	0.0063
48	Chromium	0.010	J	0.0068	0.0017 J	ND	ND	ND	0.01	0.010	ND	ND	0.0011 J	ND	ND	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	0.0007 J	0.0002 J
50	Nickel	0.050	ND	ND	ND	ND	ND	ND	0.1	0.050	0.0025 J	.0024 J	ND	0.0022 J	ND	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 DATA SUMMARY

Monitoring Well: OW-1

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0444 J	0.0292 J
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0012	0.0011
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0043	0.0029
20	Bromochloromethane	mg/L		0.003	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	0.0024 J	0.0018 J
27	Chloroethane	mg/L	3	0.010	0.0117	0.0070 J
28	Chloroform	mg/L	0.07	0.005	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0368 J	0.0266 J
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	0.0011	ND
37	Styrene	mg/L	0.07	0.001	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0048	0.0046
39	Toluene	mg/L	0.6	0.001	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0103	0.0076
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0113	0.0091
47	Xylenes	mg/L	0.5	0.005	0.0036	0.0027 J
48	Chromium	mg/L	0.01	0.010	ND	ND
49	Lead	mg/L	0.015	0.010	0.0007 J	0.0009 J
50	Nickel	mg/L	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

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	38 Mar-2012	39 Sep-2012	40 Mar-2013
1	1,1,1,2-Tetrachloroethane	0.005	ND	NS	NS	NS	NS	NS	0.001	0.005	ND	ND	ND	NS	NS	NS	NS
2	1,1,1-Trichloroethane	0.001	ND	NS	NS	NS	NS	NS	0.2	0.001	ND	ND	ND	NS	NS	NS	NS
3	1,1,2,2-Tetrachloroethane	0.001	ND	NS	NS	NS	NS	NS	0.0002	0.003	ND	ND	ND	NS	NS	NS	NS
4	1,1,2-Trichloroethane	0.005	ND	NS	NS	NS	NS	NS	0.0006	0.001	ND	ND	ND	NS	NS	NS	NS
5	1,1-Dichloroethane	0.001	J	NS	NS	NS	NS	NS	0.006	0.005	ND	ND	ND	NS	NS	NS	NS
6	1,1-Dichloroethene	0.005	ND	NS	NS	NS	NS	NS	0.007	0.005	ND	ND	ND	NS	NS	NS	NS
7	1,2,3-Trichloropropane	0.001	ND	NS	NS	NS	NS	NS	0.000005	0.001	ND	ND	ND	NS	NS	NS	NS
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.001	ND	NS	NS	NS	NS	NS	0.00004	0.013	ND	ND	ND	NS	NS	NS	NS
9	1,2-Dibromoethane (EDB)	0.001	ND	NS	NS	NS	NS	NS	0.00002	0.001	ND	ND	ND	NS	NS	NS	NS
10	1,2-Dichlorobenzene	0.005	ND	NS	NS	NS	NS	NS	0.02	0.005	ND	ND	ND	NS	NS	NS	NS
11	1,2-Dichloroethane	0.001	ND	NS	NS	NS	NS	NS	0.0004	0.001	ND	ND	ND	NS	NS	NS	NS
12	1,2-Dichloropropane	0.001	ND	NS	NS	NS	NS	NS	0.0006	0.001	ND	ND	ND	NS	NS	NS	NS
13	1,4-Dichlorobenzene	0.001	ND	NS	NS	NS	NS	NS	0.006	0.001	ND	ND	ND	NS	NS	NS	NS
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	NS	NS	NS	NS	NS	4	0.100	ND	ND	ND	NS	NS	NS	NS
15	2-Hexanone	0.050	ND	NS	NS	NS	NS	NS	0.04	0.050	ND	ND	ND	NS	NS	NS	NS
16	4-Methyl-2-pentanone	0.100	ND	NS	NS	NS	NS	NS		0.100	ND	ND	ND	NS	NS	NS	NS
17	Acetone	0.100	ND	NS	NS	NS	NS	NS	6	0.100	.0072 J	ND	ND	NS	NS	NS	NS
18	Acrylonitrile	0.200	ND	NS	NS	NS	NS	NS		0.200	ND	ND	ND	NS	NS	NS	NS
19	Benzene	0.001	ND	NS	NS	NS	NS	NS	0.001	0.001	ND	ND	ND	NS	NS	NS	NS
20	Bromochloromethane	0.003	ND	NS	NS	NS	NS	NS		0.003	ND	ND	ND	NS	NS	NS	NS
21	Bromodichloromethane	0.001	ND	NS	NS	NS	NS	NS	0.0006	0.001	ND	ND	ND	NS	NS	NS	NS
22	Bromoform	0.003	ND	NS	NS	NS	NS	NS	0.004	0.003	ND	ND	ND	NS	NS	NS	NS
23	Bromomethane (Methyl bromide)	0.010	ND	NS	NS	NS	NS	NS	0.01	0.010	ND	ND	ND	NS	NS	NS	NS
24	Carbon disulfide	0.100	ND	NS	NS	NS	NS	NS	0.7	0.100	ND	ND	ND	NS	NS	NS	NS
25	Carbon tetrachloride	0.001	ND	NS	NS	NS	NS	NS	0.0003	0.001	ND	ND	ND	NS	NS	NS	NS
26	Chlorobenzene	0.003	ND	NS	NS	NS	NS	NS	0.05	0.003	ND	ND	ND	NS	NS	NS	NS
27	Chloroethane	0.010	ND	NS	NS	NS	NS	NS	3	0.010	ND	ND	ND	NS	NS	NS	NS
28	Chloroform	0.005	ND	NS	NS	NS	NS	NS	0.07	0.005	ND	ND	ND	NS	NS	NS	NS
29	Chloromethane (Methyl chloride)	0.001	ND	NS	NS	NS	NS	NS	0.003	0.001	ND	ND	ND	NS	NS	NS	NS
30	cis-1,2-Dichloroethene	0.005	J	NS	NS	NS	NS	NS	0.07	0.005	ND	ND	ND	NS	NS	NS	NS
31	cis-1,3-Dichloropropene	0.001	ND	NS	NS	NS	NS	NS	0.0004	0.001	ND	ND	ND	NS	NS	NS	NS
32	Dibromochloromethane	0.001	ND	NS	NS	NS	NS	NS	0.0004	0.003	ND	ND	ND	NS	NS	NS	NS
33	Dibromomethane (Methylene bromide)	0.001	ND	NS	NS	NS	NS	NS	0.07	0.001	ND	ND	ND	NS	NS	NS	NS
34	Ethylbenzene	0.001	ND	NS	NS	NS	NS	NS	0.6	0.001	ND	ND	ND	NS	NS	NS	NS
35	Iodomethane (Methyl iodide)	0.010	ND	NS	NS	NS	NS	NS		0.010	ND	ND	ND	NS	NS	NS	NS
36	Methylene chloride	0.001	ND	NS	NS	NS	NS	NS	0.005	0.001	ND	ND	ND	NS	NS	NS	NS
37	Styrene	0.001	ND	NS	NS	NS	NS	NS	0.07	0.001	ND	ND	ND	NS	NS	NS	NS
38	Tetrachloroethene	0.001	0.002	NS	NS	NS	NS	NS	0.0007	0.001	0.0023	0.0023	ND	NS	NS	NS	NS
39	Toluene	0.001	ND	NS	NS	NS	NS	NS	0.6	0.001	ND	ND	ND	NS	NS	NS	NS
40	trans-1,2-Dichloroethene	0.005	ND	NS	NS	NS	NS	NS	0.10	0.005	ND	ND	ND	NS	NS	NS	NS
41	trans-1,3-Dichloropropene	0.001	ND	NS	NS	NS	NS	NS	0.0004	0.001	ND	ND	ND	NS	NS	NS	NS
42	trans-1,4-Dichloro-2-butene	0.100	ND	NS	NS	NS	NS	NS		0.100	ND	ND	ND	NS	NS	NS	NS
43	Trichloroethene	0.001	0.0017	NS	NS	NS	NS	NS	0.003	0.001	ND	ND	ND	NS	NS	NS	NS
44	Trichlorofluoromethane	0.001	ND	NS	NS	NS	NS	NS	2	0.001	ND	ND	ND	NS	NS	NS	NS
45	Vinyl acetate	0.050	ND	NS	NS	NS	NS	NS	0.088	0.050	ND	ND	ND	NS	NS	NS	NS
46	Vinyl chloride	0.001	ND	NS	NS	NS	NS	NS	0.00003	0.001	ND	ND	ND	NS	NS	NS	NS
47	Xylenes	0.003	J	NS	NS	NS	NS	NS	0.5	0.005	ND	ND	ND	NS	NS	NS	NS
48	Chromium	0.010	J	NS	NS	NS	NS	NS	0.01	0.010	ND	.0014 J	IS	NS	NS	NS	NS
49	Lead	0.010	J	NS	NS	NS	NS	NS	0.015	0.010	.0005 J	.0052 J	IS	NS	NS	NS	NS
50	Nickel	0.050	ND	NS	NS	NS	NS	NS	0.1	0.050	.0030 J	.0027 J	IS	NS	NS	NS	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 DATA SUMMARY

Monitoring Well: OW-3

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	41 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND
15	2-Hexanone	mg/L	0.04	0.050	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND
17	Acetone	mg/L	6	0.100	0.0083 J
18	Acrylonitrile	mg/L		0.200	ND
19	Benzene	mg/L	0.001	0.001	ND
20	Bromochloromethane	mg/L		0.003	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND
22	Bromoform	mg/L	0.004	0.003	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND
27	Chloroethane	mg/L	3	0.010	ND
28	Chloroform	mg/L	0.07	0.005	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND
36	Methylene chloride	mg/L	0.005	0.001	ND
37	Styrene	mg/L	0.07	0.001	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0008 J
39	Toluene	mg/L	0.6	0.001	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND
43	Trichloroethene	mg/L	0.003	0.001	ND
44	Trichlorofluoromethane	mg/L	2	0.001	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND
47	Xylenes	mg/L	0.5	0.005	ND
48	Chromium	mg/L	0.01	0.010	ND
49	Lead	mg/L	0.015	0.010	0.0027 J
50	Nickel	mg/L	0.1	0.050	0.0037 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

CR-1

Monitoring Well: CR-1

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
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	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
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	0.007	ND	0.011	0.008	0.0092	0.005	ND	ND	0.0078	0.0079
6	1,1-Dichloroethene	mg/L	0.007	0.005	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
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	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
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	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	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	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
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
17	Acetone	mg/L	0.7	0.05	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
19	Benzene	mg/L	0.001	0.001	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
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
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	ND	ND
27	Chloroethane	mg/L	2.80	0.005	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
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	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
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
33	Dibromomethane (Methylene bromide)	mg/L		0.005	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
35	Iodomethane (Methyl iodide)	mg/L		0.025	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
37	Styrene	mg/L	0.1	0.005	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
39	Toluene	mg/L	1.0	0.005	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
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	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
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	0.001	ND	0.0011	ND	ND	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2.1	0.005	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
46	Vinyl chloride	mg/L	0.000015	0.001	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
48	Chromium	mg/L	0.05	0.010	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
50	Nickel	mg/L	0.1	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

	Parameter	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	21 Mar-2012	22 Sep-2012	23 Mar-2013	24 Sep-2013
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	ND	ND	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	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	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	ND	ND	0.0061	0.0028 J
6	1,1-Dichloroethene	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.000005	0.001	ND	ND	ND	ND	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	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	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	ND	ND	ND	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	0.100	ND	ND	ND	ND	ND	ND	6	0.100	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	0.001	ND	ND	0.0002 J	ND	ND	ND	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.010	ND	ND	ND	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	0.010	J	ND	0.0026 J	0.0023 J	0.0031 J	0.0016 J	3	0.010	0.0028 J	.0014 J	0.0038 J	0.0020 J	0.0032	ND	0.0049 J	0.0027 J
28	Chloroform	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	ND	0.002	ND	ND	ND	0.003	0.001	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	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	0.0007 J	ND	0.0008 J	ND
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.001	ND	ND	ND	ND	ND	ND	0.6	0.001	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	0.001	ND	ND	ND	ND	ND	ND	0.005	0.001	ND	ND	ND	ND	ND	ND	ND	ND
37	Styrene	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND	ND
39	Toluene	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	ND	ND	0.0004 J	ND
40	trans-1,2-Dichloroethene	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	ND	ND	ND	ND	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	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	ND	ND	ND	ND
43	Trichloroethene	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	ND	ND	0.0004 J	ND
44	Trichlorofluoromethane	0.001	ND	ND	ND	ND	0.0009 J	0.0004 J	2	0.001	.0004 J	ND	0.0004 J	ND	ND	ND	ND	ND
45	Vinyl acetate	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	0.001	ND	ND	ND	ND	0.0007 J	0.0002 J	0.00003	0.001	.0005 J	ND	0.0004 J	ND	ND	ND	0.0004 J	ND
47	Xylenes	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND	ND	ND	ND	ND
48	Chromium	0.010	ND	ND	0.0023 J	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND	ND	ND
49	Lead	0.010	ND	ND	ND	ND	ND	ND	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	0.05	ND	ND	0.0049 J	ND	ND	ND	0.1	0.050	ND	ND	ND	ND	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	21 Mar-2012	22 Sep-2012
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	0.001	0.005	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	0.001	ND	ND	ND	ND	ND	ND	0.2	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.0002	0.003	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	0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	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	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	0.0014	ND
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	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	0.000005	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.00004	0.013	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	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	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	0.005	ND	ND	ND	ND	ND	ND	0.02	0.005	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	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.006	0.001	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	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	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	0.04	0.050	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	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	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	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	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	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	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	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	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	0.01	0.010	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	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	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	0.001	ND	ND	ND	ND	ND	ND	0.0003	0.001	ND	ND	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	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	0.010	.001 J	ND	0.0013 J	ND	ND	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	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	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	ND	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	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	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	0.07	0.001	ND	ND	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	0.6	0.001	ND	ND	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	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	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	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	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	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	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	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	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	ND	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	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	0.088	0.050	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	0.001	ND	ND	ND	ND	0.0003 J	ND	0.00003	0.001	ND	ND	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	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	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	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	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 DATA SUMMARY

Monitoring Well: SW-2

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	23 Mar-2013	24 Sep-2013
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0021 J	ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND
20	Bromochloromethane	mg/L		0.003	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND
27	Chloroethane	mg/L	3	0.010	0.0013 J	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0004 J	ND
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND
39	Toluene	mg/L	0.6	0.001	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	ND	ND
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND
47	Xylenes	mg/L	0.5	0.005	ND	ND
48	Chromium	mg/L	0.01	0.010	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND
50	Nickel	mg/L	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.

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix F:

Static Water Levels and % LEL

Newton Landfill

Permit Number: 18-01

2nd Semi 2013

Sample Date: 9/16/2013

Samplers: Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Sunny 75°F

	~ *Static Water Levels* ~		*Methane*	
Monitoring Point	Sampling Date	Depths to Water (feet)	Intial % LEL	%LEL Stabilized
MW-1	9/16/2013	13.84	0	0
MW-3	9/16/2013	28.10	0	0
MW-4	9/16/2013	11.40	0	0
MW-5	9/16/2013	8.57	0	0
MW-6	9/16/2013	18.62	0	0
MW-7A	9/16/2013	14.97	0	0
MW-9	9/16/2013	35.72	0	0
MW-10A	9/16/2013	35.22	0	0
MW-10B	9/16/2013	32.35	52	0
MW-11	9/16/2013	16.82	0	0
MW-13	9/16/2013	17.59	0	0
MW-14	9/16/2013	28.47	100	100
MW-14A	9/16/2013	29.44	0	0
MW-15	9/16/2013	18.82	0	0
MW-15A	9/16/2013	25.81	0	0
MW-16	9/16/2013	8.46	0	0
MW-16A	9/16/2013	5.11	0	0
MW-18	9/16/2013	15.95	0	0
MW-19	9/16/2013	16.22	0	0
MW-20	9/16/2013	29.10	0	0
MW-21	9/16/2013	21.16	0	0
MW-22	9/16/2013	37.11	0	0
MW-23	9/16/2013	17.30	0	0
MW-24	9/16/2013	20.30	0	0
MW-24D	9/16/2013	23.54	0	0
OW-1	9/16/2013	27.73	0	0
OW-2	9/16/2013	25.05	0	0
OW-3	9/16/2013	29.20	15	24

Newton Landfill

Permit Number: 18-01

2nd Semi 2013

Sample Date: 9/16/2013

Samplers: Randy Farley / Allen McBride / Billy Shirley

Weather Conditions: Sunny 75°F

MISCELLANEOUS	~ *Static Water Levels* ~		*Methane*	
Monitoring Point	Sampling Date	Depths to Water (feet)	Intial % LEL	%LEL Stabilized
MW-2A	9/16/2013	19.85	100	100
MW-7A	9/16/2013	17.77	0	0
MW-8	9/16/2013	12.50	0	0
MW-12	9/16/2013	16.61	0	0
MW-17	-	-	-	-
RW-1	9/16/2013	18.72	0	0
RW-2	9/16/2013	16.16	0	0
RW-3	9/16/2013	10.25	27	15

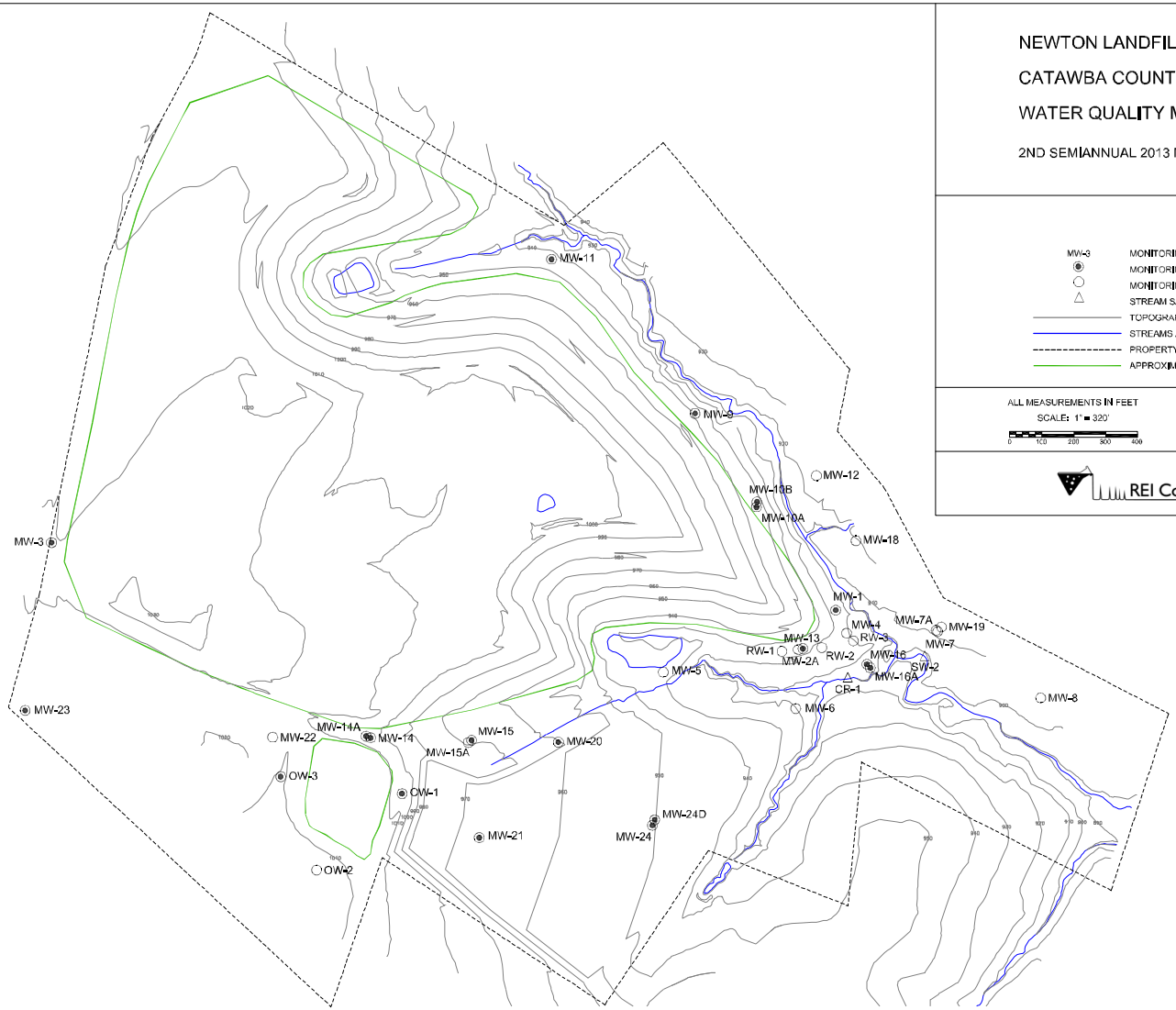
Newton Landfill

(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 2013 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 2013

REI Consultants, Inc.

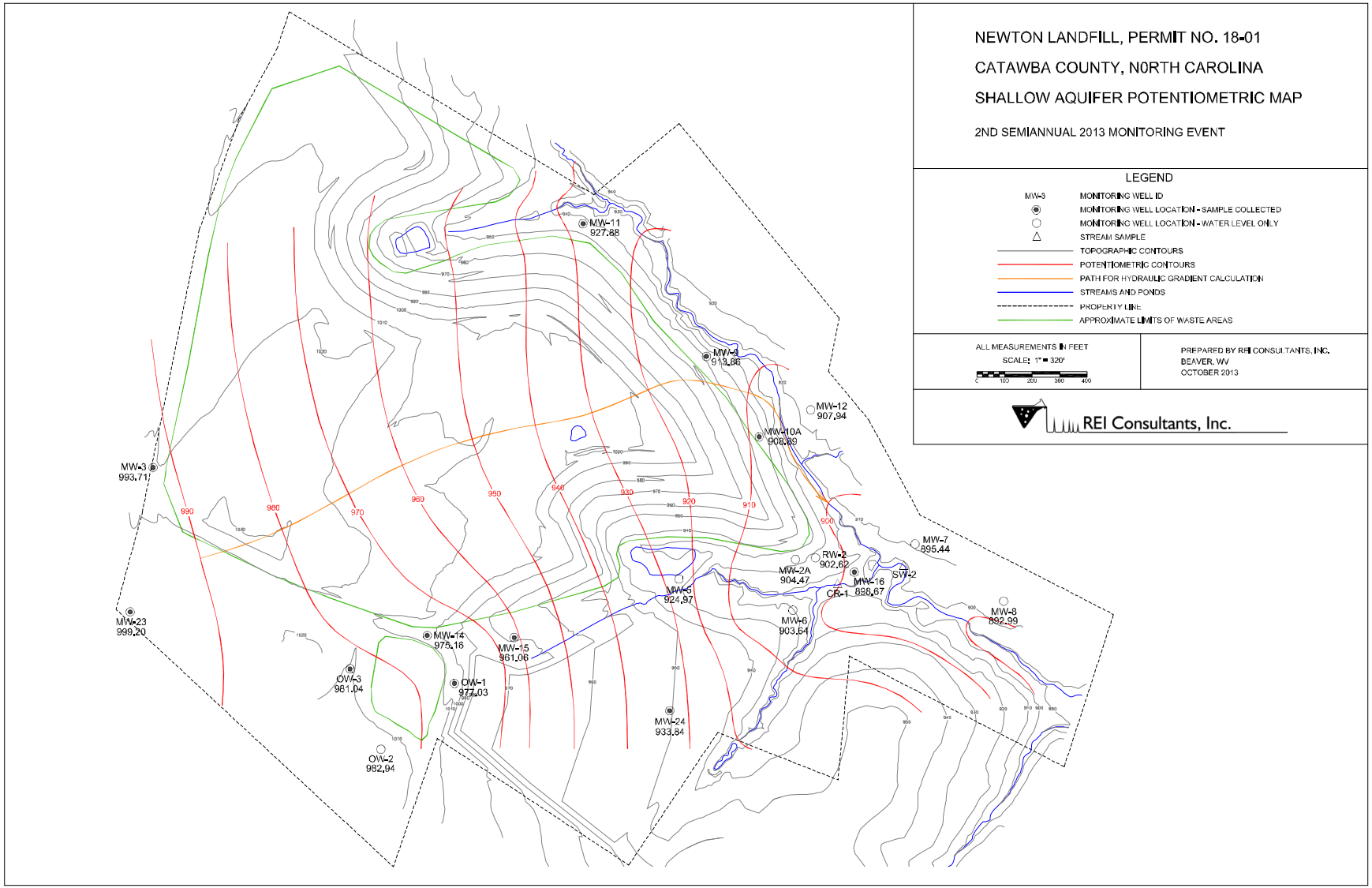
Newton Landfill

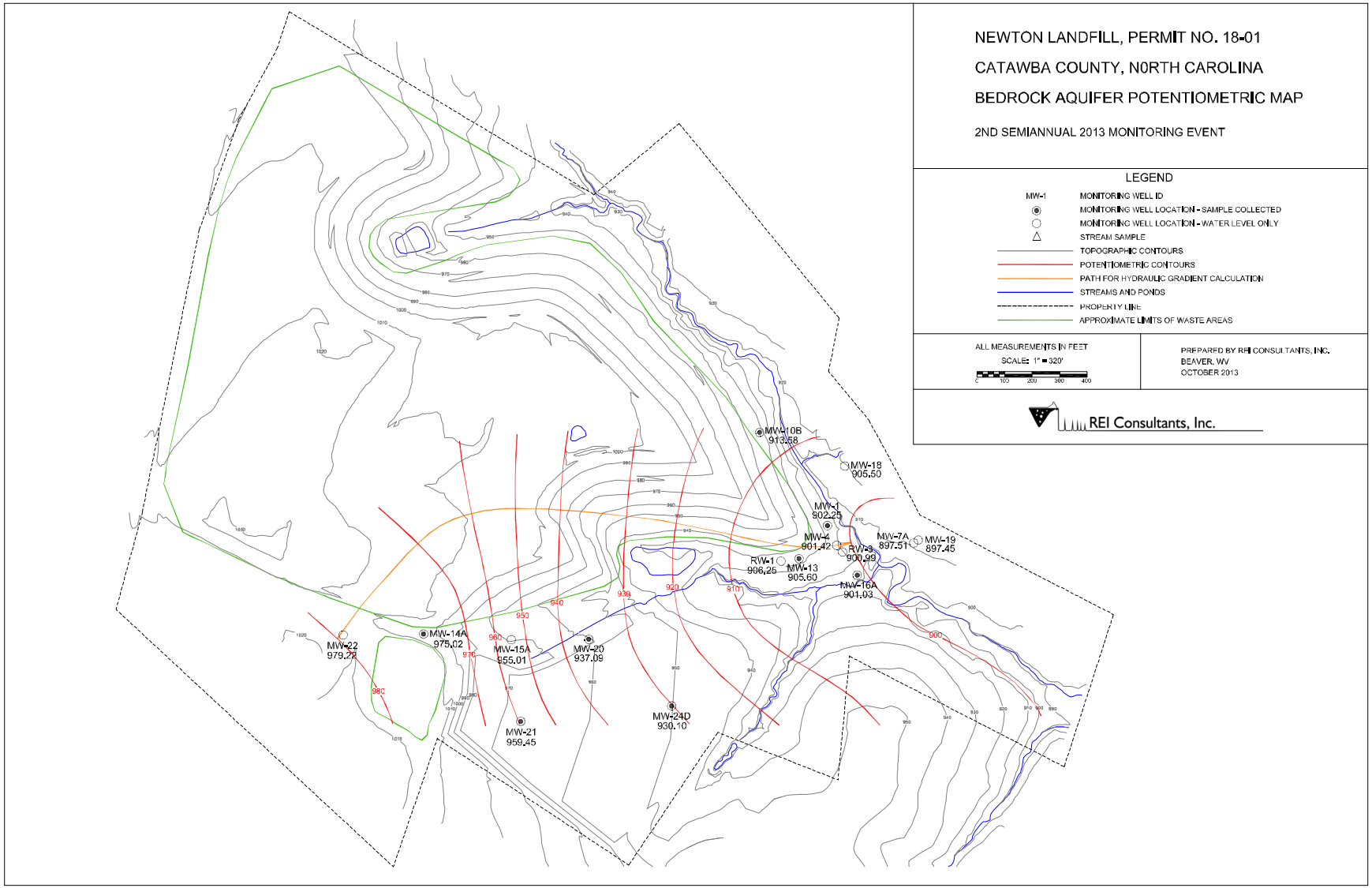
(Catawba County, North Carolina)

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 2013 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'
PREPARED BY REI CONSULTANTS, INC.
BEAVER, WV
OCTOBER 2013
REI Consultants, Inc.
MW-11 927.88
MW-4 913.86
MW-12 907.94
MW-10A 908.89
MW-3 993.71
MW-7 895.44
RW-2 902.62
MW-2A 904.47
MW-16 898.67
SW-2
CR-1
MW-5 924.97
MW-6 903.64
MW-8 892.99
MW-23 999.20
MW-14 975.16
MW-15 961.06
OW-3 961.04
OW-1 977.03
MW-24 933.84
OW-2 952.94


NEWTON LANDFILL, PERMIT NO. 18-01
CATAWBA COUNTY, N0RTH CAROLINA
BEDROCK AQUIFER POTENTIOMETRIC MAP
2ND SEMIANNUAL 2013 MONITORING EVENT
LEGEND
MW-1 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'
PREPARED BY REI CONSULTANTS, INC.
BEAVER, WV
OCTOBER 2013
REI Consultants, Inc.
MW-10B 913.58
MW-18 905.50
MW-1 902.25
MW-4 901.42
RW-3 900.99
MW-7A 897.51
MW-19 897.45
RW-1 906.25
MW-13 905.60
MW-16A 901.03
MW-14A 975.02
MW-22 979.22
MW-15A 955.01
MW-20 937.09
MW-24D 930.10
MW-21 959.45

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 2013

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	19.85	904.47	911.12	901.12	906.12
MW-13	1359184.60	699134.60	921.69	923.19	Rock	17.59	905.60	856.69	846.69	851.69
			COMPARISON	**DH (Ft.)**	**DZ (Ft.)**	**DH/DZ (Ft./Ft.)**	**CONDITION**			
			MW-2A TO MW-13	-1.13	54.43	-0.021	DISCHARGE			
MW-7	1359605.50	699187.80	910.31	913.21	Sediment	17.77	895.44	897.01	887.01	892.01
MW-7A	1359601.00	699191.40	909.48	912.48	Rock	14.97	897.51	843.48	833.48	838.48
MW-19	1359617.60	699201.90	911.36	913.67	Rock? No Log	16.22	897.45	805.17	795.17	800.17
			COMPARISON	**DH (Ft.)**	**DZ (Ft.)**	**DH/DZ (Ft./Ft.)**	**CONDITION**			
			MW-7 TO MW-7A	-2.07	53.53	-0.039	DISCHARGE			
			MW-7A TO MW-19	0.06	38.31	0.002	RECHARGE			
			MW-7 TO MW-19	-2.01	91.84	-0.022	DISCHARGE			
MW-10A	1359040.10	699576.50	942.61	944.11	Sediment	35.22	908.89	904.61	894.61	899.61
MW-10B	1359041.30	699592.60	942.60	945.93	Rock	32.35	913.58	868.15	858.15	863.15
			COMPARISON	**DH (Ft.)**	**DZ (Ft.)**	**DH/DZ (Ft./Ft.)**	**CONDITION**			
			MW-10A TO MW-10B	-4.69	36.46	-0.129	DISCHARGE			
MW-14	1357834.90	698855.70	1002.13	1003.63	Sediment	28.47	975.16	979.13	969.13	972.15
MW-14A	1357821.20	698861.10	1002.46	1004.46	Rock? No Log	29.44	975.02	929.46	919.46	924.46
			COMPARISON	**DH (Ft.)**	**DZ (Ft.)**	**DH/DZ (Ft./Ft.)**	**CONDITION**			
			MW-14 TO MW-14A	0.14	47.685	0.003	RECHARGE			
MW-15	1358150.40	698848.20	977.60	979.88	Sediment	18.82	961.06	955.60	945.60	950.60
MW-15A	1358139.90	698840.70	978.54	980.82	Rock? No Log	25.81	955.01	908.54	898.54	903.54
			COMPARISON	**DH (Ft.)**	**DZ (Ft.)**	**DH/DZ (Ft./Ft.)**	**CONDITION**			
			MW-15 TO MW-15A	6.05	47.06	0.129	RECHARGE			
MW-16	1359385.20	699085.70	905.63	907.13	Sediment? No Log	8.46	898.67	897.63	887.63	892.63
MW-16A	1359395.60	699074.50	904.14	906.14	Rock	5.11	901.03	833.84	823.84	828.84
			COMPARISON	**DH (Ft.)**	**DZ (Ft.)**	**DH/DZ (Ft./Ft.)**	**CONDITION**			
			MW-16 TO MW-16A	-2.36	63.79	-0.037	DISCHARGE			
MW-24	1358715.00	698582.70	951.20	954.14	Sediment	20.30	933.84	927.70	917.70	922.70
MW-24D	1358722.10	698600.00	950.23	953.64	Rock? No Log	23.54	930.10	877.60	867.60	872.60
			COMPARISON	**DH (Ft.)**	**DZ (Ft.)**	**DH/DZ (Ft./Ft.)**	**CONDITION**			
			MW-24 TO MW-24D	3.74	50.1	0.075	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