1st Semi-Annual 2015 Groundwater Monitoring Report

for the

Newton Landfill

Catawba County, North Carolina

Permit# 18-01

Groundwater Monitoring Program

March 2015

Improving the environment, one client at a time...
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DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

REI Consultants, Inc./REI Consultants of North Carolina, PLLC

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

Name: Michael Hofe, PE Phone: (304) 255-2500

E-mail: mhofe@reiclabs.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Newton Landfill	Bethany Church Rd, Newton, NC	18-01	.0500	March 24, 2015

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Michael Hofe, PE — Facility Representative Name (Print)

Consultant for Facility — Title

(304) 255-2500 — (Area Code) Telephone Number

Signature

5-18-15 — Date

Affix NC Licensed/ Professional Geologist Seal

PO Box 286, Beaver, WV 25813

Facility Representative Address

P-1018

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

1st Semiannual 2015

Groundwater Monitoring Report

Newton Landfill

Catawba County, North Carolina

Permit Number: 18-01

1st Semi-Annual 2015 Groundwater Monitoring Report

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EXECUTIVE SUMMARY

REI Consultants, Inc., (REIC) has prepared the 1st Semi-Annual 2015 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 regulations from 15A NCAC 13B, and communications with North Carolina Department of the Environment and Natural Resources (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 1st semi-annual 2015 event, groundwater samples were obtained by REIC's environmental field technicians, utilizing protocols established by NCDENR. No anomalies were experienced during this sampling with the exception of significant levels of suspended solids in several groundwater samples.

Static water levels were measured in all monitoring wells during the 1st semi-annual 2015 event. Static water levels and topographic contours were utilized to generate groundwater potentiometric maps for the uppermost and bedrock aquifers. These maps were utilized to estimate groundwater hydraulic gradients, from which groundwater flow rates were calculated. Velocities estimated from the current event are of similar magnitude as those of previous events.

Results from the 1st semi-annual 2015 sampling event were compared to North Carolina groundwater standards. Parameters determined to be above North Carolina groundwater standards are as follows:

Parameter	Monitoring Point
1,1,2-Trichloroethane	MW-10A
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
1,1-Dichloroethene	MW-20
1,2-Dichloroethane	MW-10A, MW-11, MW-14, MW-14A
1,2-Dichloropropane	MW-1, MW-9, MW-10A, MW-11, MW-14, MW-16
1,4-Dichlorobenzene	MW-9, MW-10A, MW-14
2-Butanone	MW-1
2-Hexanone	MW-1
4-Methyl-2-pentanone	MW-1
Acetone	MW-1
Benzene	MW-1, MW-3, MW-9, MW-10A, MW-14, MW-15, MW-16, MW-20, OW-1
Bromodichloromethane	MW-10A
cis-1,2-Dichloroethene	MW-9, MW-14, MW-15, MW-20
cis-1,3-Dichloropropene	MW-10A
Methylene chloride	MW-1, MW-9, MW-11, MW-15, MW-20
Tetrachloroethene	MW-3, MW-11, MW-13, MW-14A, MW-15, MW-16, MW-16A, MW-20, OW-1
trans-1,3-Dichloropropene	MW-10A
Trichloroethene	MW-3, MW-13, MW-14, MW-14A, MW-15, MW-16, MW-16A, MW-20, OW-1
Vinyl chloride	MW-9, MW-10B, MW-13, MW-14, MW-15, MW-16, MW-16A, MW-20, OW-1
Nickel	MW-9

Based on 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 2nd semi-annual sampling event of 2015.

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. These monitoring locations, in addition to wells that are used for water level measurements only, are indicated on Figure 1.

During the 1st semi-annual 2015 monitoring event, REIC collected groundwater samples from all of the above semiannual monitoring wells with the exception of well OW-3, which was dry. 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 A. 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 (as %LEL), as well as static water levels measured prior to purging, are presented in Appendix B, along with additional monitoring well details including total depths, diameters, and screened intervals.

GROUNDWATER FLOW RATE AND DIRECTION

Models of two potentiometric surfaces have been prepared from the field data collected during the 1st semi-annual 2015 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 surveyed mapping based on North Carolina State Plane coordinates. The potentiometric maps for each aquifer include topographic contours, waste disposal area boundaries, and streams.

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 this report as Figure 2.

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 included in this report as Figure 3.

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.

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 C.

Groundwater horizontal flow velocities were estimated for the two aquifers using a form of Darcy's Law:

$$V = (K_h * i) / n_e$$

where:

V = groundwater velocity
K_h = horizontal hydraulic conductivity
i = hydraulic gradient
n_e = effective porosity

Hydraulic parameters and estimated flow velocities for each aquifer are provided in the following table:

Aquifer	Groundwater Velocity (ft/yr)	Hydraulic Conductivity (cm/sec)	Hydraulic Gradient (ft/ft)	Effective Porosity (unitless)
Shallow	48	2.8×10^{-4}	0.033	0.20
Bedrock	980	2.5×10^{-3}	0.038	0.10

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 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 results detected above SWSLs are summarized in the table in Appendix D. Values greater than the North Carolina groundwater standards are shown in red print. A summary of dissolved metals and total suspended solids results is included in Appendix E.

Parameters determined to be above North Carolina groundwater standards for the 1st semi-annual 2015 groundwater sampling event are summarized as follows:

Parameter	Monitoring Point
1,1,2-Trichloroethane	MW-10A
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
1,1-Dichloroethene	MW-20
1,2-Dichloroethane	MW-10A, MW-11, MW-14, MW-14A
1,2-Dichloropropane	MW-1, MW-9, MW-10A, MW-11, MW-14, MW-16
1,4-Dichlorobenzene	MW-9, MW-10A, MW-14
2-Butanone	MW-1
2-Hexanone	MW-1
4-Methyl-2-pentanone	MW-1
Acetone	MW-1
Benzene	MW-1, MW-3, MW-9, MW-10A, MW-14, MW-15, MW-16, MW-20, OW-1
Bromodichloromethane	MW-10A
cis-1,2-Dichloroethene	MW-9, MW-14, MW-15, MW-20
cis-1,3-Dichloropropene	MW-10A
Methylene chloride	MW-1, MW-9, MW-11, MW-15, MW-20
Tetrachloroethene	MW-3, MW-11, MW-13, MW-14A, MW-15, MW-16, MW-16A, MW-20, OW-1
trans-1,3-Dichloropropene	MW-10A
Trichloroethene	MW-3, MW-13, MW-14, MW-14A, MW-15, MW-16, MW-16A, MW-20, OW-1
Vinyl chloride	MW-9, MW-10B, MW-13, MW-14, MW-15, MW-16, MW-16A, MW-20, OW-1
Nickel	MW-9

Per NCDENR directive, no statistical analysis of groundwater data was conducted. The laboratory report and chain-of-custody form for the event is included in Appendix F. All available analytical results of previous sampling events are included in Appendix G.

CONCLUSIONS AND RECOMMENDATIONS

- The 1st semi-annual 2015 water quality monitoring event at Newton Landfill has been performed in accordance with state and federal guidelines and NCDENR directives.

- The horizontal groundwater flow rate of the shallow aquifer has been estimated at 48 ft/year. The groundwater flow rate of the bedrock aquifer has been estimated at 980 ft/year.

- Field sampling and laboratory analysis activities were performed with no significant procedural deviations and within acceptable QA/QC parameters.

- Several parameters exceeded groundwater standards. However, results are consistent with data from previous events.

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 2nd semi-annual sampling event of 2015.

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Figures:

Sampling Locations
and
Topographical Contours

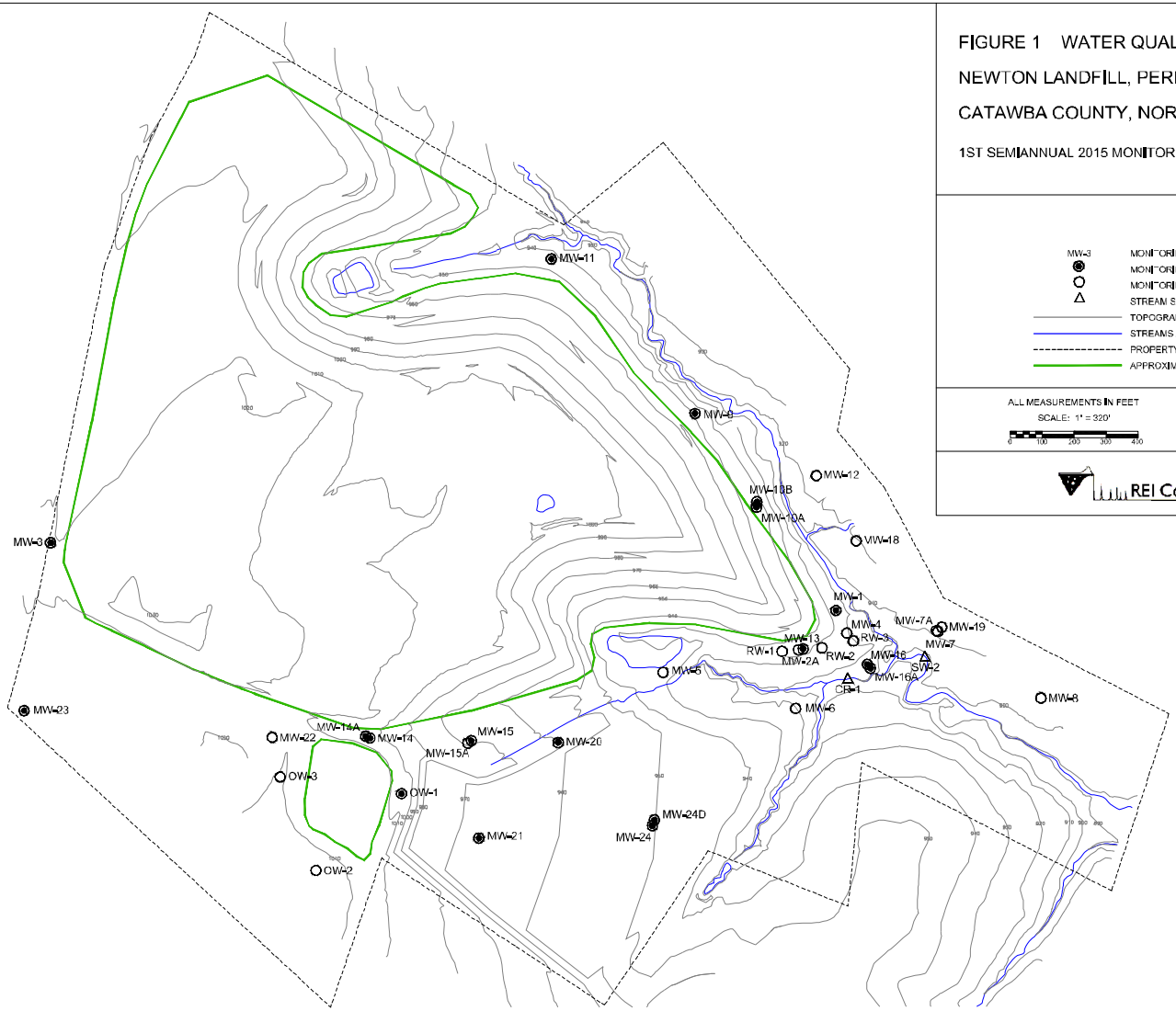

FIGURE 1 WATER QUALITY MONITORING LOCATIONS

NEWTON LANDFILL, PERMIT NO. 18-01

CATAWBA COUNTY, NORTH CAROLINA

1ST SEMIANNUAL 2015 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
APRIL 2015

REI Consultants, Inc.

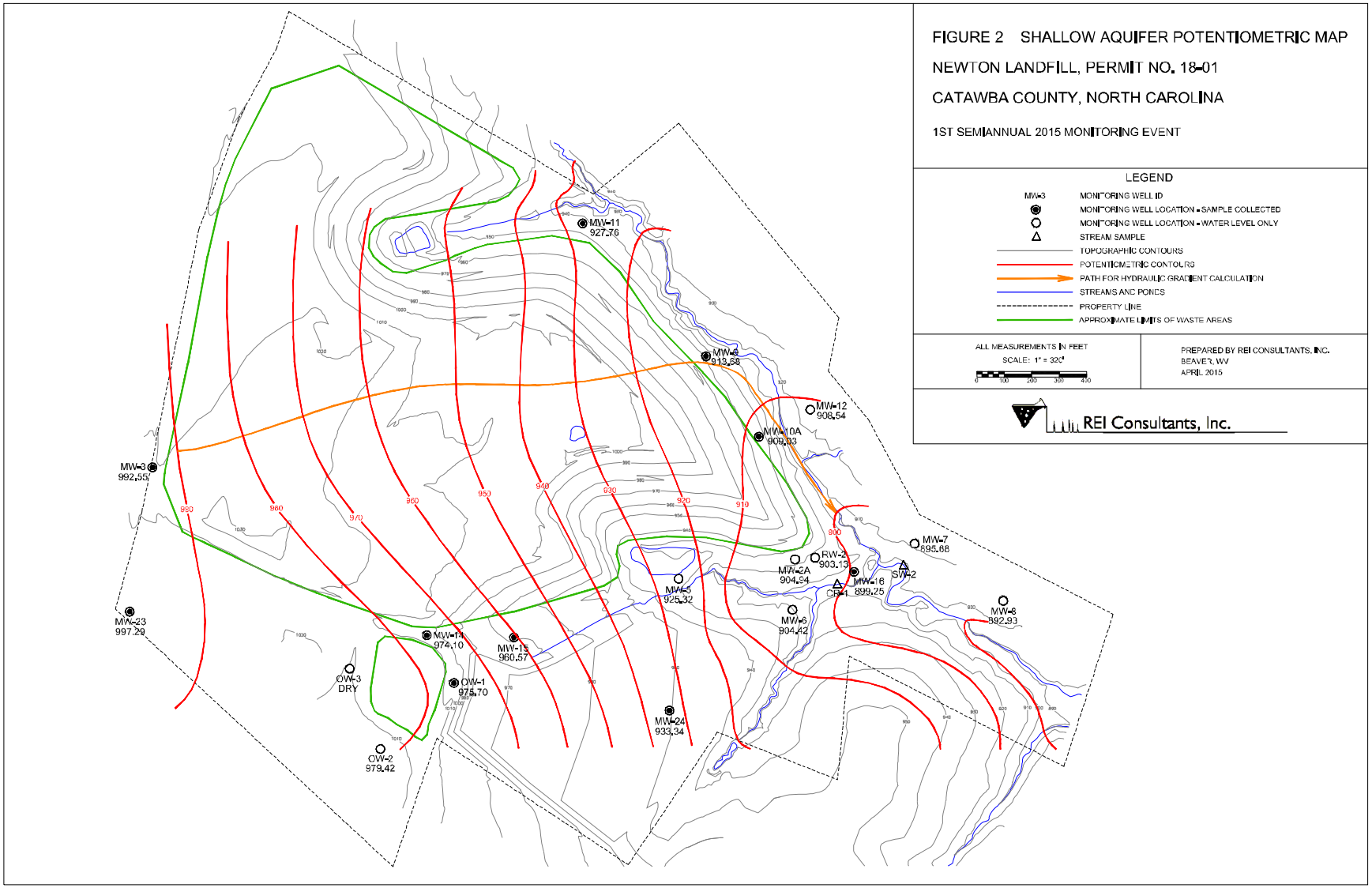
FIGURE 2 SHALLOW AQUIFER POTENTIOMETRIC MAP
NEWTON LANDFILL, PERMIT NO. 18-01
CATAWBA COUNTY, NORTH CAROLINA
1ST SEMIANNUAL 2015 MONITORING EVENT
LEGEND
MW-3 MONITORING WELL ID
MONITORING WELL LOCATION - SAMPLE COLLECTED
MONITORING WELL LOCATION - WATER LEVEL ONLY
STREAM SAMPLE
TOPOGRAPHIC CONTOURS
POTENTIOMETRIC CONTOURS
PATH FOR HYDRAULIC GRADIENT CALCULATION
STREAMS AND PONDS
PROPERTY LINE
APPROXIMATE LIMITS OF WASTE AREAS
ALL MEASUREMENTS IN FEET
SCALE: 1" = 320'
0 100 200 300 400
PREPARED BY REI CONSULTANTS, INC.
BEAVER, WV
APRIL 2015
REI Consultants, Inc.
MW-11
927.76
MW-9
913.68
MW-12
908.54
MW-10A
909.03
MW-3
992.55
MW-7
895.68
RW-2
903.13
MW-2A
904.94
MW-16
899.25
SW-2
CB-1
MW-5
925.32
MW-6
904.42
MW-8
892.93
MW-23
997.29
MW-17
974.10
MW-15
960.57
OW-3
DRY
OW-1
975.70
MW-24
933.34
OW-2
979.42
930
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1010
1020
920
910
900

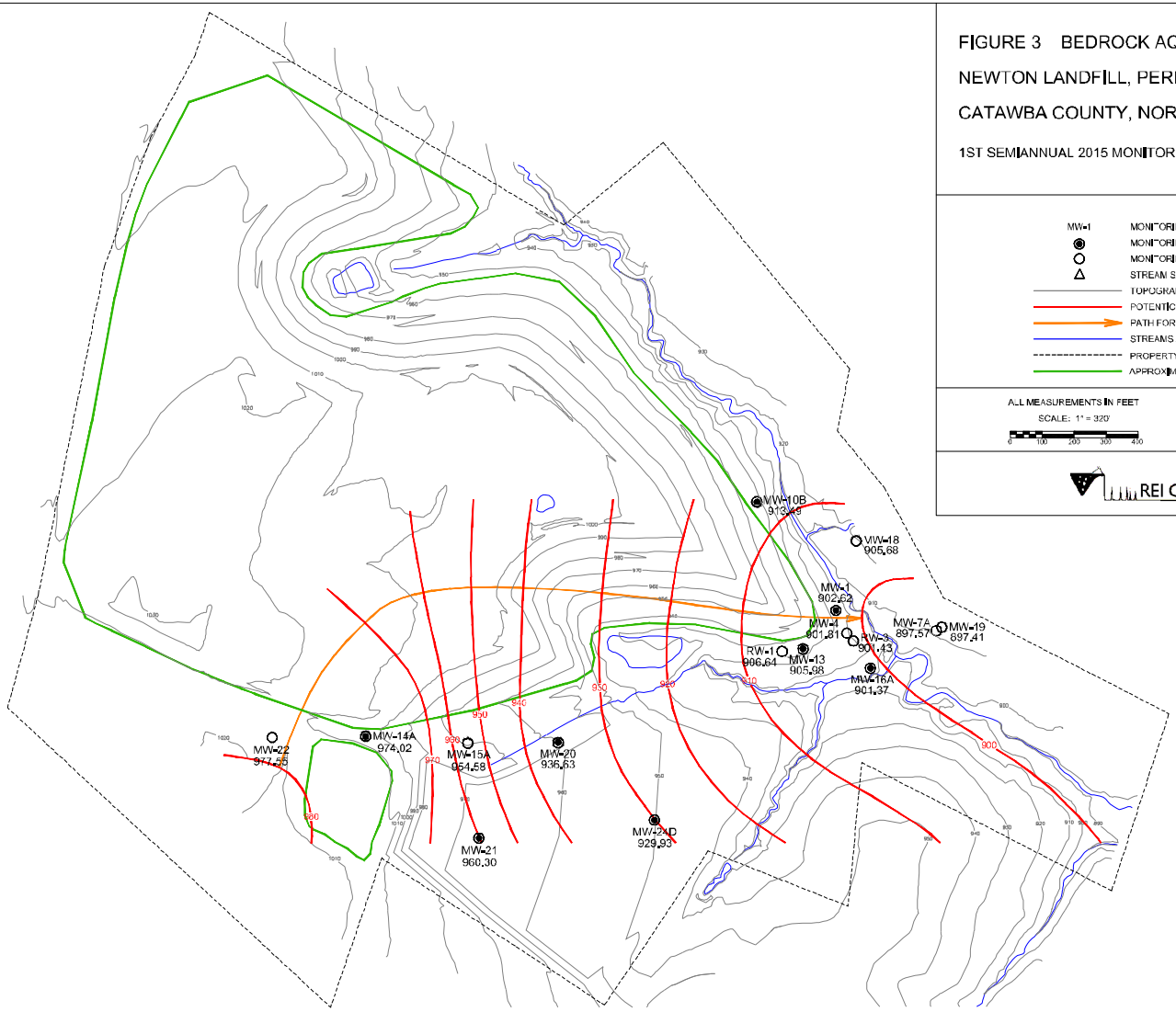

FIGURE 3 BEDROCK AQUIFER POTENTIOMETRIC MAP

NEWTON LANDFILL, PERMIT NO. 18-01

CATAWBA COUNTY, NORTH CAROLINA

1ST SEMIANNUAL 2015 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'

0 100 200 300 400

PREPARED BY REI CONSULTANTS, INC.
BEAVER, WV
APRIL 2015

REI Consultants, Inc.

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix A:

Sampling / Field Log Summaries and Field Sample Logs

SAMPLING LOG SUMMARY

Newton Landfill (Permit: #18-01)

REIC Job #: 1503V14

Sampling Date: 3/24/2015

Sampler(s): Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Weather Conditions: Cloudy, Overcast, Sunny and Partly Sunny 45-68°F

Property	**Units**	**MW-1**	**MW-3**	**MW-7A**	**MW-9**
Sampling Depth	**Feet**	16.69	32.38	-	35.90
Static Depth	**Feet**	13.47	29.26	-	35.90
Well Depth	**Feet**	29.60	40.40	-	45.63
Water Column Height	**Feet**	16.13	11.14	-	9.73
Volume Purged	**Liters**	28	14	-	0
Purging Status	**-**	Finished Purging	Purged Dry	-	0
Physical Property	**Units**	**MW-1**	**MW-3**	**MW-7A**	**MW-9**
pH	**SU**	6.44	5.06	-	5.54
Temperature	**°C**	14.6	15.9	-	16.1
Conductivity	**umhos/cm**	3440	54.6	-	1480
Turbidity	**NTU**	26.2	41.9	-	217
Appearance	**-**	Cloudy	Cloudy	-	Cloudy
Odor	**-**	Strong Odor	No Odor	-	Slight Odor
Total Suspended Solids (TSS)	**mg/L**	116	22	-	254

Property	**Units**	**MW-10A**	**MW-10B**	**MW-11**	**MW-13**
Sampling Depth	**Feet**	40.36	32.44	21.11	18.68
Static Depth	**Feet**	35.08	32.44	16.94	17.21
Well Depth	**Feet**	49.02	87.78	36.12	78.70
Water Column Height	**Feet**	13.94	55.34	19.18	61.49
Volume Purged	**Liters**	25	0	35	107
Purging Status	**-**	Finished Purging	0	Finished Purging	Finished Purging
Physical Property	**Units**	**MW-10A**	**MW-10B**	**MW-11**	**MW-13**
pH	**SU**	6.67	6.69	6.27	6.68 Dup 6.65
Temperature	**°C**	16.5	16.2	15.6	15.4 Dup 15.5
Conductivity	**umhos/cm**	1910	294	152	236 Dup 236
Turbidity	**NTU**	58.3	12.51	51.5	8.09 Dup 7.98
Appearance	**-**	Cloudy	Clear	Cloudy	Clear
Odor	**-**	No Odor	Slight Odor	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	74	10.5	66	6

SAMPLING LOG SUMMARY

Newton Landfill (Permit: #18-01)

REIC Job #: 1503V14

Sampling Date: 3/24/2015

Sampler(s): Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Weather Conditions: Cloudy, Overcast, Sunny and Partly Sunny 45-68°F

Property	**Units**	**MW-14**	**MW-14A**	**MW-15**	**MW-16**
Sampling Depth	**Feet**	31.29	34.50	27.19	11.11
Static Depth	**Feet**	29.53	30.44	19.31	7.88
Well Depth	**Feet**	34.45	85.56	33.78	20.40
Water Column Height	**Feet**	4.92	55.12	14.47	12.52
Volume Purged	**Liters**	9	100	25	23
Purging Status	**-**	Finished Purging	Finished Purging	Finished Purging	Finished Purging
Physical Property	**Units**	**MW-14**	**MW-14A**	**MW-15**	**MW-16**
pH	**SU**	6.18	6.11	4.41	6.05
Temperature	**°C**	17.1	16.8	16.4	13.0
Conductivity	**umhos/cm**	677	68.9	45.4	503
Turbidity	**NTU**	26.9	28.5	145	30.1
Appearance	**-**	Cloudy	Cloudy	Cloudy	Cloudy
Odor	**-**	Slight Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	33	20.5	164	18.5

Property	**Units**	**MW-16A**	**MW-18**	**MW-20**	**MW-21**
Sampling Depth	**Feet**	25.00	-	56.21	20.31
Static Depth	**Feet**	4.77	-	29.56	20.31
Well Depth	**Feet**	81.70	-	84.80	69.80
Water Column Height	**Feet**	76.93	-	55.24	49.49
Volume Purged	**Liters**	134	-	37	0
Purging Status	**-**	Finished Purging	-	Purged Dry	0
Physical Property	**Units**	**MW-16A**	**MW-18**	**MW-20**	**MW-21**
pH	**SU**	7.30 Dup 7.29	-	5.46	8.13
Temperature	**°C**	14.0 Dup 14.1	-	16.5	16.0
Conductivity	**umhos/cm**	277 Dup 279	-	153	94.5
Turbidity	**NTU**	2.17 Dup 2.21	-	10.9	47.3
Appearance	**-**	Clear	-	Clear	Cloudy
Odor	**-**	No Odor	-	Slight Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	<5.0	-	8.5	35.5

SAMPLING LOG SUMMARY

Newton Landfill (Permit: #18-01)

REIC Job #: 1503V14

Sampling Date: 3/24/2015

Sampler(s): Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Weather Conditions: Cloudy, Overcast, Sunny and Partly Sunny 45-68°F

Property	**Units**	**MW-23**	**MW-24**	**MW-24D**	**OW-1**
Sampling Depth	**Feet**	25.13	28.89	60.31	30.04
Static Depth	**Feet**	19.21	20.80	23.71	29.06
Well Depth	**Feet**	34.11	36.60	86.32	36.46
Water Column Height	**Feet**	14.90	15.80	63.11	7.40
Volume Purged	**Liters**	26	28	66	12
Purging Status	**-**	Finished Purging	Finsihed Purging	Purged Dry	Purged Dry
Physical Property	**Units**	**MW-23**	**MW-24**	**MW-24D**	**OW-1**
pH	**SU**	4.69	4.86	6.13	5.26
Temperature	**°C**	17.1	15.9	16.6	17.4
Conductivity	**umhos/cm**	24.8	72.6	49.0	172
Turbidity	**NTU**	275	>800	50.1	71.2
Appearance	**-**	Cloudy	Red	Cloudy	Cloudy
Odor	**-**	No Odor	No Odor	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	462	1620	31.5	31

Property	**Units**	**OW-3**	**CR-1**	**SW-2**
Sampling Depth	**Feet**	-	-	-
Static Depth	**Feet**	Dry	-	-
Well Depth	**Feet**	30.90	-	-
Water Column Height	**Feet**	-	-	-
Volume Purged	**Liters**	-	-	-
Purging Status	**-**	-	-	-
Physical Property	**Units**	**OW-3**	**CR-1**	**SW-2**
pH	**SU**	-	7.43	7.75
Temperature	**°C**	-	11.9	11.2
Conductivity	**umhos/cm**	-	256	251
Turbidity	**NTU**	-	2.78	2.61
Appearance	**-**	-	Clear	Clear
Odor	**-**	-	No Odor	No Odor
Total Suspended Solids (TSS)	**mg/L**	-	<5.0	<5.0

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 09:51 | Weather Conditions: Cloudy 51 °F

Static Depth (Depth to Water)	13.47 (Ft)		Volume	9.33 (Liters)
Well Depth	29.60 (Ft)		3 Volumes	28.01 (Liters)
Water Column Height	16.13 (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)
09:54	6.53	2,650.0	14.3	51.1	1
09:56	6.54	2,780.0	14.8	138.0	5
09:58	6.52	2,970.0	15.3	54.3	10
10:00	6.53	2,960.0	15.3	109.0	15
10:02	6.56	3,050.0	15.3	155.0	20
10:04	6.54	3,060.0	15.4	>800	25
10:07		Finished Purging			28

SAMPLING DATA

Date: 3/24/2015 | Time: 10:16

Method: Teflon Bailer | Sampling Depth: 16.69'

pH: 6.44 ***(SU)*** | Conductivity: 3440 ***(umhos/cm)***

Temperature: 14.6 ***(^{o} C)*** | Turbidity: 26.2 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: Strong Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 07:55 | Weather Conditions: Cloudy 55 °F

Static Depth (Depth to Water)	29.26	(Ft)	Volume	6.45 (Liters)
Well Depth	40.40	(Ft)	3 Volumes	19.35 (Liters)
Water Column Height	11.14	(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)
07:57	5.10	52.3	15.8	8.2	1
07:59	5.12	57.4	16.1	42.3	4
08:01	5.19	65.6	16.4	42.7	8
08:04	5.40	72.1	16.3	394.0	12
08:06		Purged Dry			14

SAMPLING DATA

Date: 3/24/2015 | Time: 08:15

Method: Teflon Bailer | Sampling Depth: 32.38'

pH: 5.06 ***(SU)*** | Conductivity: 54.6 ***(umhos/cm)***

Temperature: 15.9 ***(^oC)*** | Turbidity: 41.9 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 08:54 | Weather Conditions: Cloudy 46 °F

Static Depth (Depth to Water)	35.90	(Ft)	Volume	5.63	(Liters)
Well Depth	45.63	(Ft)	3 Volumes	16.90	(Liters)
Water Column Height	9.73	(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: 3/24/2015 | Time: 08:55

Method: Teflon Bailer | Sampling Depth: 35.90'

pH: 5.54 ***(SU)*** | Conductivity: 1480 ***(umhos/cm)***

Temperature: 16.1 ***(^{o} C)*** | Turbidity: 217 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: Slight Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 09:08 | Weather Conditions: Cloudy 47 °F

Static Depth (Depth to Water)	35.08	(Ft)	Volume	8.07 (Liters)
Well Depth	49.02	(Ft)	3 Volumes	24.21 (Liters)
Water Column Height	13.94	(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)
09:15	6.62	1,849.0	15.7	14.54	1
09:17	6.67	1,960.0	16.2	32.30	5
09:20	6.63	1,900.0	16.5	23.00	10
09:22	6.65	1,920.0	16.5	31.00	15
09:24	6.67	1,920.0	16.5	38.00	20
09:26	6.67	1,910.0	16.5	44.50	25
09:26		Finished Purging			25

SAMPLING DATA

Date: 3/24/2015 | Time: 09:29

Method: Teflon Bailer | Sampling Depth: 40.36'

pH: 6.67 ***(SU)*** | Conductivity: 1910 ***(umhos/cm)***

Temperature: 16.5 ***(^{o} C)*** | Turbidity: 58.3 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 09:33 | Weather Conditions: Cloudy 46 °F

Static Depth (Depth to Water)	32.44	(Ft)	Volume	4.78 (Liters)
Well Depth	87.78	(Ft)	3 Volumes	14.34 (Liters)
Water Column Height	55.34	(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: 3/24/2015 | Time: 09:36

Method: Disposable Bailer | Sampling Depth: 32.44'

pH: 6.69 ***(SU)*** | Conductivity: 294 ***(umhos/cm)***

Temperature: 16.2 ***(^{o} C)*** | Turbidity: 12.51 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: Slight Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 08:27 | Weather Conditions: Cloudy 46 °F

Static Depth (Depth to Water)	16.94 (Ft)		Volume	11.10 (Liters)
Well Depth	36.12 (Ft)		3 Volumes	33.31 (Liters)
Water Column Height	19.18 (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)
08:31	6.25	151.5	13.6	4.39	1
08:34	6.40	155.1	14.7	34.20	7
08:36	6.35	152.9	15.1	26.80	14
08:38	6.30	152.1	15.2	28.10	21
08:41	6.30	151.8	15.2	41.80	28
08:43	6.31	151.6	15.3	62.70	35
08:43		Finished Purging			35

SAMPLING DATA

Date: 3/24/2015 | Time: 08:45

Method: Teflon Bailer | Sampling Depth: 21.11'

pH: 6.27 ***(SU)*** | Conductivity: 152.2 ***(umhos/cm)***

Temperature: 15.6 ***(^oC)*** | Turbidity: 51.5 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 09:22 | Weather Conditions: Overcast 49 °F

Static Depth (Depth to Water)	17.21	(Ft)	Volume	35.60	(Liters)
Well Depth	78.70	(Ft)	3 Volumes	106.80	(Liters)
Water Column Height	61.49	(Ft)	Volume Purged	107.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
09:27	6.90	244.0	14.8	1.85	1
09:32	6.75	238.0	15.5	14.35	20
09:38	6.70	238.0	15.5	16.80	40
09:43	6.64	236.0	15.6	11.41	60
09:49	6.62	236.0	15.5	10.85	80
09:54	6.63	236.0	15.6	13.01	100
09:57		Finished Purging			107

SAMPLING DATA

Date: 3/24/2015 | Time: 10:00

Method: Teflon Bailer | Sampling Depth: 18.68'

pH: 6.68 Dup 6.65 ***(SU)*** | Conductivity: 236 Dup 236 ***(umhos/cm)***

Temperature: 15.4 Dup 15.5 ***(^{o} C)*** | Turbidity: 8.09 Dup 7.98 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 12:13 | Weather Conditions: Sunny 68 °F

Static Depth (Depth to Water)	29.53	(Ft)	Volume	2.84 (Liters)
Well Depth	34.45	(Ft)	3 Volumes	8.54 (Liters)
Water Column Height	4.92	(Ft)	Volume Purged	9.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
12:17	6.04	574.0	17.2	8.81	1
12:18	6.12	653.0	17.5	26.20	3
12:19	6.19	667.0	17.1	24.20	5
12:21	6.16	662.0	17.1	21.20	7
12:23	6.21	671.0	17.1	14.31	9
12:23		Finished Purging			9

SAMPLING DATA

Date: 3/24/2015 | Time: 12:26

Method: Teflon Bailer | Sampling Depth: 31.29'

pH: 6.18 ***(SU)*** | Conductivity: 677 ***(umhos/cm)***

Temperature: 17.1 ***(^{o} C)*** | Turbidity: 26.9 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: Slight Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 12:04 | Weather Conditions: Sunny 66 °F

Static Depth (Depth to Water)	30.44 (Ft)		Volume	31.91 (Liters)
Well Depth	85.56 (Ft)		3 Volumes	95.74 (Liters)
Water Column Height	55.12 (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)
12:10	6.16	67.4	17.3	11.31	1
12:15	6.17	67.4	16.6	4.48	20
12:21	6.18	68.6	16.5	13.47	40
12:27	6.18	68.2	16.7	20.50	60
12:32	6.15	69.0	16.5	26.90	80
12:38	6.15	68.6	16.4	20.30	100
12:38		Finished Purging			100

SAMPLING DATA

Date: 3/24/2015 | Time: 12:42

Method: Teflon Bailer | Sampling Depth: 34.50'

pH: 6.11 ***(SU)*** | Conductivity: 68.9 ***(umhos/cm)***

Temperature: 16.8 ***(^oC)*** | Turbidity: 28.5 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 10:52 | Weather Conditions: Cloudy 56 °F

Static Depth (Depth to Water)	19.31	(Ft)	Volume	8.37	(Liters)
Well Depth	33.78	(Ft)	3 Volumes	25.13	(Liters)
Water Column Height	14.47	(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)
10:56	4.30	69.7	15.9	49.00	1
10:58	4.28	68.8	16.2	105.00	5
11:00	4.35	49.9	16.3	82.40	10
11:02	4.40	43.8	16.4	74.10	15
11:04	4.40	48.2	16.5	83.10	20
11:06	4.42	47.9	16.4	209.00	25
11:06		Finished Purging			25

SAMPLING DATA

Date: 3/24/2015 | Time: 11:09

Method: Teflon Bailer | Sampling Depth: 27.19'

pH: 4.41 ***(SU)*** | Conductivity: 45.4 ***(umhos/cm)***

Temperature: 16.4 ***(^{o} C)*** | Turbidity: 145 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 08:54 | Weather Conditions: Overcast °F

Static Depth (Depth to Water)	7.88	(Ft)	Volume	7.24	(Liters)
Well Depth	20.40	(Ft)	3 Volumes	21.74	(Liters)
Water Column Height	12.52	(Ft)	Volume Purged	23.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
08:58	6.16	520.0	12.0	10.31	1
09:00	6.15	533.0	12.0	307.00	4
09:02	6.12	528.0	12.3	80.30	8
09:03	6.13	521.0	12.3	48.60	12
09:05	6.08	504.0	12.5	42.90	16
09:07	6.07	494.0	12.5	50.50	20
09:08		Finished Purging			23

SAMPLING DATA

Date: 3/24/2015 | Time: 09:11

Method: Teflon Bailer | Sampling Depth: 11.11'

pH: 6.05 ***(SU)*** | Conductivity: 503 ***(umhos/cm)***

Temperature: 13.0 ***(^{o} C)*** | Turbidity: 30.1 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 07:45 | Weather Conditions: Overcast 45 °F

Static Depth (Depth to Water)	4.77 (Ft)		Volume	44.52 (Liters)
Well Depth	81.70 (Ft)		3 Volumes	133.62 (Liters)
Water Column Height	76.93 (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)
07:50	7.07	281.0	11.4	3.13	1
07:57	7.14	277.0	13.9	18.51	24
08:03	7.29	317.0	14.6	20.30	48
08:10	7.33	327.0	14.7	31.20	72
08:18	7.28	305.0	14.8	18.71	96
08:26	7.27	293.0	14.8	15.46	120
08:31		Finished Purging			134

SAMPLING DATA

Date: 3/24/2015 | Time: 08:40

Method: Teflon Bailer | Sampling Depth: 25.00'

pH: 7.30 Dup 7.29 ***(SU)*** | Conductivity: 277 Dup 279 ***(umhos/cm)***

Temperature: 14.0 Dup 14.1 ***(^{o} C)*** | Turbidity: 2.17 Dup 2 ***2.21 (NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 10:24 | Weather Conditions: Cloudy 53 °F

Static Depth (Depth to Water)	29.56	(Ft)	Volume	31.98 (Liters)
Well Depth	84.80	(Ft)	3 Volumes	95.95 (Liters)
Water Column Height	55.24	(Ft)	Volume Purged	37.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
10:28	5.34	169.6	15.8	2.25	1
10:34	5.46	194.2	15.9	1.91	16
10:40	5.43	186.8	15.9	750.00	32
10:44		Purged Dry			37

SAMPLING DATA

Date: 3/24/2015 | Time: 12:00

Method: Teflon Bailer | Sampling Depth: 56.21'

pH: 5.46 ***(SU)*** | Conductivity: 152.7 ***(umhos/cm)***

Temperature: 16.5 ***(^{o} C)*** | Turbidity: 10.92 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Clear | Odor: Slight Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: Well has obstruction at approximately 25' from TOC

PURGING DATA

Date/Time: 3/24/2015 11:46 | Weather Conditions: Sunny 66 °F

Static Depth (Depth to Water)	20.31	(Ft)	Volume	28.65 (Liters)
Well Depth	69.80	(Ft)	3 Volumes	85.96 (Liters)
Water Column Height	49.49	(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: 3/24/2015 | Time: 11:48

Method: Disposable Bailer | Sampling Depth: 20.31'

pH: 8.13 ***(SU)*** | Conductivity: 94.5 ***(umhos/cm)***

Temperature: 16.0 ***(^{o} C)*** | Turbidity: 47.3 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 07:29 | Weather Conditions: Cloudy 45 °F

Static Depth (Depth to Water)	19.21 (Ft)		Volume	8.62 (Liters)
Well Depth	34.11 (Ft)		3 Volumes	25.88 (Liters)
Water Column Height	14.90 (Ft)		Volume Purged	26.00 (Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
07:32	4.76	28.0	16.5	3.74	1
07:34	4.62	26.5	17.3	372.0	5
07:36	4.55	25.7	17.6	>800	10
07:37	4.61	26.9	17.6	>800	15
07:39	4.60	26.5	17.6	767.0	20
07:41	4.65	24.6	17.6	>800	25
07:41		Finished Purging			26

SAMPLING DATA

Date: 3/24/2015 | Time: 07:44

Method: Teflon Bailer | Sampling Depth: 25.13'

pH: 4.69 ***(SU)*** | Conductivity: 24.8 ***(umhos/cm)***

Temperature: 17.1 ***(^oC)*** | Turbidity: 275 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 11:13 | Weather Conditions: Partly Sunny 56 °F

Static Depth (Depth to Water)	20.80	(Ft)	Volume	9.14 (Liters)
Well Depth	36.60	(Ft)	3 Volumes	27.44 (Liters)
Water Column Height	15.80	(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)
11:15	4.98	64.6	15.5	32.40	1
11:17	4.68	84.6	15.7	506.00	5
11:19	4.73	87.6	15.7	>800	10
11:21	4.75	86.6	15.9	>800	15
11:22	4.77	77.8	15.9	>800	20
11:24	4.81	71.8	15.9	>800	25
11:25		Finsihed Purging			28

SAMPLING DATA

Date: 3/24/2015 | Time: 11:29

Method: Teflon Bailer | Sampling Depth: 28.89'

pH: 4.86 ***(SU)*** | Conductivity: 72.6 ***(umhos/cm)***

Temperature: 15.9 ***(^{o} C)*** | Turbidity: >800 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Red | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 10:42 | Weather Conditions: Sunny 56 °F

Static Depth (Depth to Water)	23.71	(Ft)	Volume	36.54	(Liters)
Well Depth	86.32	(Ft)	3 Volumes	109.62	(Liters)
Water Column Height	63.11	(Ft)	Volume Purged	66.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
10:48	6.94	46.7	15.2	1.97	1
10:53	6.47	45.9	15.4	23.70	20
11:00	6.34	46.8	15.5	280.00	40
11:06	6.32	46.7	15.5	>800	60
11:09		Purged Dry			66

SAMPLING DATA

Date: 3/24/2015 | Time: 11:38

Method: Teflon Bailer | Sampling Depth: 60.31'

pH: 6.13 ***(SU)*** | Conductivity: 49 ***(umhos/cm)***

Temperature: 16.6 ***(^oC)*** | Turbidity: 50.1 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

REI CONSULTANTS, INC. GROUNDWATER SAMPLING LOG

Project Name: Newton Landfill | Project : 1st Semi 2015 | 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: 3/24/2015 11:23 | Weather Conditions: Cloudy 57 °F

Static Depth (Depth to Water)	29.06	(Ft)	Volume	4.28	(Liters)
Well Depth	36.46	(Ft)	3 Volumes	12.85	(Liters)
Water Column Height	7.40	(Ft)	Volume Purged	12.00	(Liters)

EVACUATION/STABILIZATION TEST DATA

Time	pH (SU)	Temperature Corrected Conductivity (umhos/cm)	Temperature (^oC)	Turbidity (NTU)	Volume Purged (Liters)
11:27	5.20	141.0	16.5	12.9	1
11:28	5.43	184.7	16.5	86.0	3
11:29	5.32	182.9	16.5	225.0	6
11:30	5.37	179.7	16.5	211.0	9
11:32	5.44	173.2	16.6	215.0	12
11:32		Purged Dry			12

SAMPLING DATA

Date: 3/24/2015 | Time: 11:55

Method: Teflon Bailer | Sampling Depth: 30.04'

pH: 5.26 ***(SU)*** | Conductivity: 171.7 ***(umhos/cm)***

Temperature: 17.4 ***(^{o} C)*** | Turbidity: 71.2 ***(NTU)***

PHYSICAL CHARACTERISTICS OF SAMPLE

Appearance: Cloudy | Odor: No Odor

Comments:

Sampled By: Randy Farley / Allen McBride / Ricky Talley / J.D. Bennett

Sampler's Signature: Allen McBride | Date: 3/24/2015

Surface Water Sampling Log

REI Consultants, Inc.

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

Outlet:	SW-2		
Date:	3/24/2015	Time:	10:25
pH:	7.75	Conductivity:	251 ***umhos/cm***
Flow:	N/A	Temperature:	11.2 ***°C***
Sample Odor and Physical Appearance:	Clear / No Odor		
Comments:	Turbidity = 2.61 NTU		

Outlet:	CR-1		
Date:	3/24/2015	Time:	10:10
pH:	7.43	Conductivity:	256 ***umhos/cm***
Flow:	N/A	Temperature:	11.9 ***°C***
Sample Odor and Physical Appearance:	Clear / No Odor		
Comments:	Turbidity = 2.78 NTU		

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

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix B:

Static Water Levels and % LEL

SUMMARY OF ALL STATIC WATER LEVELS AND %LEL

Well ID	Installation Date	Well Diameter (in)	Total Well Depth (ft)	Depth to Top of Screen (ft)	Length of Screened Interval (ft)	Geology of Screened Interval	Top of Casing Elevation	Ground Elevation	Static Depth to Water	Groundwater Elevation	Easting	Northing	% LEL Initial	% LEL Stabilized
MW-1	N/A	2	29.60	20.8	10	Silt	916.09	914.91	13.47	902.62	1359287.6	699254.6	0	0
MW-2A	N/A	2	20	10.0	10	Silt	924.32	921.12	19.38	904.94	1359171.2	699131.5	100	83
MW-3	N/A	2	40.40	30.9	10	Silt	1021.81	1020.63	29.26	992.55	1356838.9	699465.4	0	0
MW-4	N/A	2	30	20.0	10	PWR, Sand	912.82	910.72	11.01	901.81	1359321.3	699182.8	0	0
MW-5	N/A	2	35	25.0	10	Silt, Sand	933.54	931.04	8.22	925.32	1358748.9	699060.6	0	0
MW-6	N/A	2	35	25.0	10	Silt, Sand	922.26	919.76	17.84	904.42	1359162.5	698947.7	0	0
MW-7	N/A	2	23.3	13.3	10	Silt, Sand	913.21	910.31	17.53	895.68	1359605.5	699187.8	0	0
MW-7A	N/A	2	78.38	66.0	10	Bedrock	912.48	909.48	14.91	897.57	1359601.0	699191.4	0	0
MW-8	N/A	2	N/A	N/A	N/A	Sediment	905.49	903.39	12.56	892.93	1359927.4	698980.4	0	0
MW-9	N/A	2	45.63	31.1	12	Sand	949.58	948.08	35.90	913.68	1358848.3	699868.8	0	0
MW-10A	N/A	2	49.02	38.0	10	Sediment	944.11	942.60	35.08	909.03	1359040.1	699576.5	0	0
MW-10B	N/A	2	87.78	74.0	10	Bedrock	945.93	942.60	32.44	913.49	1359041.3	699592.6	42	20
MW-11	N/A	2	36.12	24.0	10	Sand	944.7	942.70	16.94	927.76	1358400.1	700350.2	0	0
MW-12	N/A	2	35	25.0	10	Sand	924.55	923.00	16.01	908.54	1359226.8	699674.4	0	0
MW-13	N/A	2	78.70	65.0	10	PWR	923.19	921.70	17.21	905.98	1359184.6	699134.6	0	0
MW-14	N/A	2	34.45	23.0	10	Silt, Sand	1003.63	1002.10	29.53	974.10	1357834.9	698855.7	0	0
MW-14A	N/A	2	85.56	73.0	10	Bedrock	1004.46	1002.50	30.44	974.02	1357821.2	698861.1	0	0
MW-15	N/A	2	33.78	22.9	10	Sand	979.88	978.46	19.31	960.57	1358150.4	698848.2	0	0
MW-15A	N/A	2	80.8	70.8	10	Bedrock	980.82	979.25	26.24	954.58	1358139.9	698840.7	0	0
MW-16	N/A	2	20.40	8.0	10	N/A	907.13	905.60	7.88	899.25	1359385.2	699085.7	0	0
MW-16A	N/A	2	81.78	70.3	10	Bedrock	906.14	904.10	4.77	901.37	1359395.6	699074.5	0	0
MW-18	N/A	2	83.31	70.5	10	Bedrock	921.45	918.48	15.77	905.68	1359350.7	699470.9	0	0
MW-19	N/A	2	116.4	106.4	10	Bedrock	913.67	911.36	16.26	897.41	1359617.6	699201.9	0	0
MW-20	N/A	2	84.80	78.4	5	Saprolite	966.19	962.52	29.56	936.63	1358421.2	698842.2	0	0
MW-21	N/A	2	69.80	67.3	5	Saprolite	980.61	977.65	20.31	960.30	1358174.1	698544.1	0	0
MW-22	N/A	2	96.3	91.3	5	Saprolite	1016.33	1013.97	38.78	977.55	1357529.5	698857.8	0	0
MW-23	N/A	2	34.11	24.2	10	Saprolite	1016.50	1013.43	19.21	997.29	1356756.1	698941.4	0	0
MW-24	N/A	2	36.60	23.5	10	Saprolite	954.14	951.20	20.80	933.34	1358715.0	698582.7	0	0
MW-24D	N/A	2	86.32	73.3	10	PWR	953.64	950.93	23.71	929.93	1358722.1	698600.0	0	0
OW-1	N/A	2	36.46	20.0	10	Silt, Sand	1004.76	1001.96	29.06	975.70	1357933.3	698682.0	0	0
OW-2	N/A	2	30	20.0	10	Silt, Sand	1007.99	1005.19	28.57	979.42	1357666.5	698442.9	0	0
OW-3	N/A	2	30.90	20.0	10	Silt, Sand	1010.24	1007.59	dry	<979.34	1357554.7	698734.6	0	0
RW-1	N/A	2	40	20.0	20	Bedrock, PWR	924.97	922.17	18.33	906.64	1359119.4	699125.8	0	0
RW-2	N/A	2	40	20.0	20	Silt	918.78	917.58	15.65	903.13	1359244.0	699137.9	0	0
RW-3	N/A	2	35	15.0	20	PWR	911.24	908.49	9.81	901.43	1359342.5	699158.5	0	0

N/A - not available
PWR - partially weathered rock
%LEL - percent of lower explosive limit calibrated to methane

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix C:

Vertical Gradient Calculations

VERTICAL GRADIENT CALCULATIONS

Newton Landfill (Closed Facility)

1st Semi-Annual 2015 Groundwater Monitoring Event

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	19.38	904.94	911.12	901.12	906.12
MW-13	1359184.60	699134.60	921.69	923.19	Rock	17.21	905.98	856.69	846.69	851.69

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-2A TO MW-13	-1.04	54.43	-0.019	DISCHARGE

MW-7	1359605.50	699187.80	910.31	913.21	Sediment	17.53	895.68	897.01	887.01	892.01
MW-7A	1359601.00	699191.40	909.48	912.48	Rock	14.91	897.57	843.48	833.48	838.48
MW-19	1359617.60	699201.90	911.36	913.67	Rock? No Log	16.26	897.41	805.17	795.17	800.17

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-7 TO MW-7A	-1.89	53.53	-0.035	DISCHARGE
MW-7A TO MW-19	0.16	38.31	0.004	RECHARGE
MW-7 TO MW-19	-1.73	91.84	-0.019	DISCHARGE

MW-10A	1359040.10	699576.50	942.61	944.11	Sediment	35.08	909.03	904.61	894.61	899.61
MW-10B	1359041.30	699592.60	942.60	945.93	Rock	32.44	913.49	868.15	858.15	863.15

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-10A TO MW-10B	-4.46	36.46	-0.122	DISCHARGE

MW-14	1357834.90	698855.70	1002.13	1003.63	Sediment	29.53	974.10	979.13	969.13	971.62
MW-14A	1357821.20	698861.10	1002.46	1004.46	Rock? No Log	30.44	974.02	929.46	919.46	924.46

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-14 TO MW-14A	0.08	47.155	0.002	RECHARGE

MW-15	1358150.40	698848.20	977.60	979.88	Sediment	19.31	960.57	955.60	945.60	950.60
MW-15A	1358139.90	698840.70	978.54	980.82	Rock? No Log	26.24	954.58	908.54	898.54	903.54

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-15 TO MW-15A	5.99	47.06	0.127	RECHARGE

MW-16	1359385.20	699085.70	905.63	907.13	Sediment? No Log	7.88	899.25	897.63	887.63	892.63
MW-16A	1359395.60	699074.50	904.14	906.14	Rock	4.77	901.37	833.84	823.84	828.84

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-16 TO MW-16A	-2.12	63.79	-0.033	DISCHARGE

MW-24	1358715.00	698582.70	951.20	954.14	Sediment	20.80	933.34	927.70	917.70	922.70
MW-24D	1358722.10	698600.00	950.23	953.64	Rock? No Log	23.71	929.93	877.60	867.60	872.60

COMPARISON	DH (Ft.)	DZ (Ft.)	DH/DZ (Ft./Ft.)	CONDITION
MW-24 TO MW-24D	3.41	50.1	0.068	RECHARGE

Abbreviations: DH: Difference In Groundwater Elevation (Head)

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

DH/DZ: DH Divided By DZ = Vertical Gradient

MSL - mean sea level

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix D:

1st Semi-Annual 2015 Summary of Detections

The following summary is a complete listing of concentrations detected above NCDENR Solid Waste Section Limits (SWSLs) during the 1st Semi-Annual Monitoring Event of 2015. 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 #: 1503V14
Sample Date: 03-24-2015

Parameter	GW Std.[1]	SWSL[2]	MW-1	MW-3	MW-7A	MW-9	MW-10A	MW-10B	MW-11	MW-13	MW-14	MW-14A	MW-15	MW-16	MW-16A	MW-18	MW-20
1,1,1-Trichloroethane	0.2	0.001	-	-		-	-	-	-	-	-	-	-	-	-		0.0016
1,1,2-Trichloroethane	0.0006	0.001	-	-	N	-	0.0016	-	-	-	-	-	-	-	-	N	-
1,1-Dichloroethane	0.006	0.005	0.0905	0.0421	O	0.179	0.190	0.0092	0.0167	0.0332	0.159	-	0.209	0.171	0.0347	O	0.406
1,1-Dichloroethene	0.007	0.005	-	-		-	-	-	-	-	-	-	-	-	-		0.0156
1,2-Dichloroethane	0.0004	0.001	-	-	S	-	0.0064	-	0.0068	-	0.0049	0.0017	-	-	-	S	-
1,2-Dichloropropane	0.0006	0.001	0.0055	-	A	0.0212	0.0122	-	0.0015	-	0.0037	-	-	0.0014	-	A	-
1,4-Dichlorobenzene	0.006	0.001	0.0019	-	M	0.0102	0.0097	-	-	-	0.0250	-	0.0033	-	-	M	0.0031
2-Butanone (Methyl ethyl ketone)	4	0.100	6.73	-	P	-	0.314	-	-	-	-	-	-	-	-	P	-
2-Hexanone	0.04	0.050	0.192	-	L	-	-	-	-	-	-	-	-	-	-	L	-
4-Methyl-2-pentanone	0.1	0.100	1.09	-	E	-	-	-	-	-	-	-	-	-	-	E	-
Acetone	6	0.100	6.34	-		-	0.392	-	-	-	-	-	-	-	-		-
Benzene	0.001	0.001	0.0129	0.0019		0.0160	0.0062	-	-	-	0.0134	-	0.0092	0.0037	-		0.0146
Bromodichloromethane	0.0006	0.001	-	-		-	0.0023	-	-	-	-	-	-	-	-		-
Chlorobenzene	0.05	0.003	-	-		-	-	-	-	-	0.0081	-	0.0031	-	-		-
Chloroethane	3	0.010	0.274	-		-	-	0.0322	-	-	-	-	-	0.0310	-		-
cis-1,2-Dichloroethene	0.07	0.005	-	-	N	0.134	-	-	-	0.0231	0.194	-	0.189	0.0244	0.0276	N	0.811
cis-1,3-Dichloropropene	0.0004	0.001	-	-	O	-	0.0024	-	-	-	-	-	-	-	-	O	-
Ethylbenzene	0.6	0.001	0.0239	-		0.0031	0.0024	-	-	-	-	-	-	-	-		-
Methylene chloride	0.005	0.001	0.0148	0.0027	S	0.0061	-	-	0.0056	-	-	-	0.0414	-	-	S	0.0229
Tetrachloroethene	0.0007	0.001	-	0.0031	A	-	-	-	0.0028	0.0037	-	0.0160	0.0042	0.0012	0.0025	A	0.0614
Toluene	0.6	0.001	0.197	-	M	0.0049	0.0324	-	-	-	-	-	-	-	-	M	-
trans-1,3-Dichloropropene	0.0004	0.001	-	-	P	-	0.0012	-	-	-	-	-	-	-	-	P	-
Trichloroethene	0.003	0.001	-	0.0056	L	0.0016	-	-	0.0020	0.0180	0.0316	0.0074	0.0738	0.0134	0.0224	L	0.855
Trichlorofluoromethane	2	0.001	-	-	E	-	-	-	0.0190	0.0100	-	0.0014	0.0066	0.0067	0.0123	E	0.0240
Vinyl chloride	0.00003	0.001	-	-		0.0904	-	0.0033	-	0.0076	0.0318	-	0.0078	0.0103	0.0062		0.0076
Xylenes	0.5	0.005	0.0410	0.0127		0.0404	0.0088	-	-	-	0.0944	-	0.0211	-	-		0.0100
Nickel	0.1	0.050	0.0819	-		0.302	-	-	-	-	-	-	-	-	-		-
Total Suspended Solids (TSS)		1	116	22		254	74	11	66	6	33	21	164	19	-		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
- NS indicates no sample collected; well was dry

SUMMARY OF DETECTIONS BY MONITORING WELL (MW)

Newton Landfill

Permit: #18-01
REIC Job #: 1503V14
Sample Date: 03-24-2015

Parameter	GW Std.[1]	SWSL[2]	MW-21	MW-23	MW-24	MW-24D	OW-1	OW-3	CR-1	SW-2
1,1,1-Trichloroethane	0.2	0.001	-	-	-	-	-		-	-
1,1,2-Trichloroethane	0.0006	0.001	-	-	-	-	-	N	-	-
1,1-Dichloroethane	0.006	0.005	-	-	-	-	0.0225	O	-	-
1,1-Dichloroethene	0.007	0.005	-	-	-	-	-		-	-
1,2-Dichloroethane	0.0004	0.001	-	-	-	-	-	S	-	-
1,2-Dichloropropane	0.0006	0.001	-	-	-	-	-	A	-	-
1,4-Dichlorobenzene	0.006	0.001	-	-	-	-	-	M	-	-
2-Butanone (Methyl ethyl ketone)	4	0.100	-	-	-	-	-	P	-	-
2-Hexanone	0.04	0.050	-	-	-	-	-	L	-	-
4-Methyl-2-pentanone	0.1	0.100	-	-	-	-	-	E	-	-
Acetone	6	0.100	-	-	-	-	-		-	-
Benzene	0.001	0.001	-	-	-	-	0.0024		-	-
Bromodichloromethane	0.0006	0.001	-	-	-	-	-		-	-
Chlorobenzene	0.05	0.003	-	-	-	-	-		-	-
Chloroethane	3	0.010	-	-	-	-	-		-	-
cis-1,2-Dichloroethene	0.07	0.005	-	-	-	-	0.0151	N	-	-
cis-1,3-Dichloropropene	0.0004	0.001	-	-	-	-	-	O	-	-
Ethylbenzene	0.6	0.001	-	-	-	-	-		-	-
Methylene chloride	0.005	0.001	-	-	-	-	-	S	-	-
Tetrachloroethene	0.0007	0.001	-	-	-	-	0.0039	A	-	-
Toluene	0.6	0.001	-	-	-	-	-	M	-	-
trans-1,3-Dichloropropene	0.0004	0.001	-	-	-	-	-	P	-	-
Trichloroethene	0.003	0.001	-	-	-	-	0.0061	L	-	-
Trichlorofluoromethane	2	0.001	-	-	-	-	-	E	-	-
Vinyl chloride	0.00003	0.001	-	-	-	-	0.0124		-	-
Xylenes	0.5	0.005	-	-	-	-	-		-	-
Nickel	0.1	0.050	-	-	-	-	-		-	-
Total Suspended Solids (TSS)		1	36	462	1620	32	31		-	-

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 E:

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 1st Semi-Annual Monitoring Event of 2015. 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: 1503V14
Sample Date: 03-24-2015

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				0.274								
Total Suspended Solids (TSS)	1	116	22	-	254	74	11	66	6	33	21	164	19

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	-	9	35.5	462	1,620	31.5	31	-	<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 F:

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

Tuesday, May 12, 2015

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

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

RE: NEWTON - 1SA 2015

Work Order #: 1503V14

Dear Mr. Rodney Hamby:

REI Consultants, Inc. received 23 sample(s) on 3/26/2015 for the analyses presented in the following report.

Sincerely,

Michelle Ellison

Michelle Ellison

REI Consultants, Inc. - Case Narrative

WO#: 1503V14

Date Reported: 5/12/2015

Client: COUNTY OF CATAWBA

Project: NEWTON - 1SA 2015

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 denoted by "J" qualifier.
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) 460148, 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#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 10:16:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-01A	**Matrix:**	Groundwater
Client Sample ID:	MW-1	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	0.0041	0.0010	0.0100	NA	J	mg/L	4/2/2015 5:25 PM	PA/VA
Lead	ND	0.0002	0.0100	NA		mg/L	4/2/2015 5:25 PM	PA/VA
Nickel	0.0819	0.0020	0.0500	NA		mg/L	4/2/2015 5:25 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/28/2015 3:45 PM	
Acetone	6,340	250	5,000	NA		µg/L	4/3/2015 2:27 PM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Benzene	12.9	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 3:45 PM	PA/VA
MEK	6,730	250	5,000	NA		µg/L	4/3/2015 2:27 PM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/28/2015 3:45 PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Chloroethane	274	25.0	50.0	NA		µg/L	4/3/2015 2:27 PM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/28/2015 3:45 PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 3:45 PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
1,4-Dichlorobenzene	1.94	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
1,1-Dichloroethane	90.5	25.0	50.0	NA		µg/L	4/3/2015 2:27 PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
1,1-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
1,2-Dichloropropane	5.51	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Ethylbenzene	23.9	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
2-Hexanone	192	5.00	50.0	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/28/2015 3:45 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 10:16:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-01A	**Matrix:**	Groundwater
Client Sample ID:	MW-1	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	14.8	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
4-Methyl-2-pentanone	1,090	250	500	NA		µg/L	4/3/2015 2:27 PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Toluene	197	25.0	50.0	NA		µg/L	4/3/2015 2:27 PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
o-Xylene	15.8	0.500	1.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
m,p-Xylene	25.2	1.00	2.00	NA		µg/L	3/28/2015 3:45 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	101	NA	68.7-129	NA		%REC	3/28/2015 3:45 PM	
Surr: 4-Bromofluorobenzene	125	NA	71.8-127	NA		%REC	3/28/2015 3:45 PM	
Surr: Dibromofluoromethane	98.4	NA	74.3-124	NA		%REC	3/28/2015 3:45 PM	
Surr: Toluene-d8	110	NA	71.4-129	NA		%REC	3/28/2015 3:45 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	116	4.0	20.0	NA		mg/L	3/27/2015 1:38 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 8:15:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-02A	**Matrix:**	Groundwater
Client Sample ID:	MW-3	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/2/2015 5:31 PM	PA/VA
Lead	0.0014	0.0002	0.0100	NA	J	mg/L	4/2/2015 5:31 PM	PA/VA
Nickel	0.0052	0.0020	0.0500	NA	J	mg/L	4/2/2015 5:31 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/28/2015 6:36 PM	
Acetone	ND	5.00	100	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Benzene	1.85	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 6:36 PM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/28/2015 6:36 PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Chloroethane	3.36	0.500	10.0	NA	J	µg/L	3/28/2015 6:36 PM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/28/2015 6:36 PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 6:36 PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
1,1-Dichloroethane	42.1	5.00	10.0	NA		µg/L	4/2/2015 8:50 PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
1,1-Dichloroethene	3.02	0.500	5.00	NA	J	µg/L	3/28/2015 6:36 PM	PA/VA
cis-1,2-Dichloroethene	1.56	0.500	5.00	NA	J	µg/L	3/28/2015 6:36 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/28/2015 6:36 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 8:15:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-02A	**Matrix:**	Groundwater
Client Sample ID:	MW-3	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	2.70	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Tetrachloroethene	3.12	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Trichloroethene	5.64	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Vinyl chloride	0.930	0.500	1.00	NA	J	µg/L	3/28/2015 6:36 PM	PA/VA
o-Xylene	1.07	0.500	1.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
m,p-Xylene	11.6	1.00	2.00	NA		µg/L	3/28/2015 6:36 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	100	NA	68.7-129	NA		%REC	3/28/2015 6:36 PM	
Surr: 4-Bromofluorobenzene	111	NA	71.8-127	NA		%REC	3/28/2015 6:36 PM	
Surr: Dibromofluoromethane	96.7	NA	74.3-124	NA		%REC	3/28/2015 6:36 PM	
Surr: Toluene-d8	98.9	NA	71.4-129	NA		%REC	3/28/2015 6:36 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	22.0	1.0	5.0	NA		mg/L	3/27/2015 1:38 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 8:55:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-03A	**Matrix:**	Groundwater
Client Sample ID:	MW-9	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/2/2015 5:36 PM	PA/VA
Lead	ND	0.0002	0.0100	NA		mg/L	4/2/2015 5:36 PM	PA/VA
Nickel	0.302	0.0020	0.0500	NA		mg/L	4/2/2015 5:36 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/28/2015 7:10 PM	
Acetone	ND	5.00	100	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Benzene	16.0	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 7:10 PM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/28/2015 7:10 PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Chlorobenzene	1.58	0.500	3.00	NA	J	µg/L	3/28/2015 7:10 PM	PA/VA
Chloroethane	ND	0.500	10.0	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/28/2015 7:10 PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 7:10 PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
1,4-Dichlorobenzene	10.2	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
1,1-Dichloroethane	179	10.0	100	NA		µg/L	4/3/2015 12:07 PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
1,1-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
cis-1,2-Dichloroethene	134	10.0	100	NA		µg/L	4/3/2015 12:07 PM	PA/VA
trans-1,2-Dichloroethene	2.88	0.500	5.00	NA	J	µg/L	3/28/2015 7:10 PM	PA/VA
1,2-Dichloropropane	21.2	10.0	20.0	NA		µg/L	4/3/2015 12:07 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Ethylbenzene	3.06	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/28/2015 7:10 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 8:55:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-03A	**Matrix:**	Groundwater
Client Sample ID:	MW-9	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	6.12	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Tetrachloroethene	0.660	0.500	1.00	NA	J	µg/L	3/28/2015 7:10 PM	PA/VA
Toluene	4.90	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Trichloroethene	1.61	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Vinyl chloride	90.4	10.0	20.0	NA		µg/L	4/3/2015 12:07 PM	PA/VA
o-Xylene	20.2	10.0	20.0	NA		µg/L	4/3/2015 12:07 PM	PA/VA
m,p-Xylene	20.2	1.00	2.00	NA		µg/L	3/28/2015 7:10 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	103	NA	68.7-129	NA		%REC	3/28/2015 7:10 PM	
Surr: 4-Bromofluorobenzene	122	NA	71.8-127	NA		%REC	3/28/2015 7:10 PM	
Surr: Dibromofluoromethane	93.5	NA	74.3-124	NA		%REC	3/28/2015 7:10 PM	
Surr: Toluene-d8	106	NA	71.4-129	NA		%REC	3/28/2015 7:10 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	254	2.0	10	NA		mg/L	3/27/2015 1:38 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 9:29:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-04A	**Matrix:**	Groundwater
Client Sample ID:	MW-10A	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	0.0034	0.0010	0.0100	NA	J	mg/L	4/2/2015 5:53 PM	PA/VA
Lead	0.0006	0.0002	0.0100	NA	J	mg/L	4/2/2015 5:53 PM	PA/VA
Nickel	0.0088	0.0020	0.0500	NA	J	mg/L	4/2/2015 5:53 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/28/2015 9:27 PM	
Acetone	392	100	200	NA		µg/L	4/3/2015 12:42 PM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Benzene	6.24	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Bromodichloromethane	2.26	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 9:27 PM	PA/VA
MEK	314	5.00	100	NA	E	µg/L	3/28/2015 9:27 PM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/28/2015 9:27 PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Chlorobenzene	1.50	0.500	3.00	NA	J	µg/L	3/28/2015 9:27 PM	PA/VA
Chloroethane	ND	0.500	10.0	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Dibromochloromethane	2.40	0.500	3.00	NA	J	µg/L	3/28/2015 9:27 PM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/28/2015 9:27 PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 9:27 PM	PA/VA
1,2-Dichlorobenzene	0.860	0.500	5.00	NA	J	µg/L	3/28/2015 9:27 PM	PA/VA
1,4-Dichlorobenzene	9.70	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
1,1-Dichloroethane	190	10.0	100	NA		µg/L	4/3/2015 12:42 PM	PA/VA
1,2-Dichloroethane	6.35	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
1,1-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
cis-1,2-Dichloroethene	1.08	0.500	5.00	NA	J	µg/L	3/28/2015 9:27 PM	PA/VA
trans-1,2-Dichloroethene	1.12	0.500	5.00	NA	J	µg/L	3/28/2015 9:27 PM	PA/VA
1,2-Dichloropropane	12.2	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
cis-1,3-Dichloropropene	2.36	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
trans-1,3-Dichloropropene	1.18	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Ethylbenzene	2.44	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
2-Hexanone	30.8	5.00	50.0	NA	J	µg/L	3/28/2015 9:27 PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/28/2015 9:27 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 9:29:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-04A	**Matrix:**	Groundwater
Client Sample ID:	MW-10A	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	ND	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
4-Methyl-2-pentanone	23.7	5.00	100	NA	J	µg/L	3/28/2015 9:27 PM	PA/VA
Styrene	0.650	0.500	1.00	NA	J	µg/L	3/28/2015 9:27 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Toluene	32.4	10.0	20.0	NA		µg/L	4/3/2015 12:42 PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
1,1,2-Trichloroethane	1.55	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Trichlorofluoromethane	0.760	0.500	1.00	NA	J	µg/L	3/28/2015 9:27 PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Vinyl chloride	0.700	0.500	1.00	NA	J	µg/L	3/28/2015 9:27 PM	PA/VA
o-Xylene	2.39	0.500	1.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
m,p-Xylene	6.40	1.00	2.00	NA		µg/L	3/28/2015 9:27 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	95.4	NA	68.7-129	NA		%REC	4/3/2015 12:42 PM	
Surr: 4-Bromofluorobenzene	111	NA	71.8-127	NA		%REC	4/3/2015 12:42 PM	
Surr: Dibromofluoromethane	97.4	NA	74.3-124	NA		%REC	4/3/2015 12:42 PM	
Surr: Toluene-d8	100	NA	71.4-129	NA		%REC	4/3/2015 12:42 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	74.0	2.0	10	NA		mg/L	3/27/2015 1:38 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 9:36:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-05A	**Matrix:**	Groundwater
Client Sample ID:	MW-10B	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/2/2015 5:59 PM	PA/VA
Lead	ND	0.0002	0.0100	NA		mg/L	4/2/2015 5:59 PM	PA/VA
Nickel	0.0021	0.0020	0.0500	NA	J	mg/L	4/2/2015 5:59 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	4/2/2015 7:06 PM	
Acetone	ND	5.00	100	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	4/2/2015 7:06 PM	PA/VA
MEK	ND	5.00	100	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	4/2/2015 7:06 PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Chloroethane	32.2	10.0	200	NA	J	µg/L	4/2/2015 9:25 PM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	4/2/2015 7:06 PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	4/2/2015 7:06 PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
1,1-Dichloroethane	9.22	0.500	5.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
1,1-Dichloroethene	ND	0.500	5.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
cis-1,2-Dichloroethene	0.740	0.500	5.00	NA	J	µg/L	4/2/2015 7:06 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
1,2-Dichloropropane	0.590	0.500	1.00	NA	J	µg/L	4/2/2015 7:06 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	4/2/2015 7:06 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 9:36:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-05A	**Matrix:**	Groundwater
Client Sample ID:	MW-10B	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Trichloroethene	0.880	0.500	1.00	NA	J	µg/L	4/2/2015 7:06 PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Vinyl chloride	3.31	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	4/2/2015 7:06 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	90.6	NA	68.7-129	NA		%REC	4/2/2015 7:06 PM	
Surr: 4-Bromofluorobenzene	111	NA	71.8-127	NA		%REC	4/2/2015 7:06 PM	
Surr: Dibromofluoromethane	94.8	NA	74.3-124	NA		%REC	4/2/2015 7:06 PM	
Surr: Toluene-d8	102	NA	71.4-129	NA		%REC	4/2/2015 7:06 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	10.5	1.0	5.0	NA		mg/L	3/27/2015 1:38 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 8:45:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-06A	**Matrix:**	Groundwater
Client Sample ID:	MW-11	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	0.0015	0.0010	0.0100	NA	J	mg/L	4/2/2015 6:05 PM	PA/VA
Lead	0.0004	0.0002	0.0100	NA	J	mg/L	4/2/2015 6:05 PM	PA/VA
Nickel	ND	0.0020	0.0500	NA		mg/L	4/2/2015 6:05 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/28/2015 10:35 PM	
Acetone	ND	5.00	100	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 10:35 PM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/28/2015 10:35 PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Chloroethane	ND	0.500	10.0	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/28/2015 10:35 PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 10:35 PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
1,1-Dichloroethane	16.7	0.500	5.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
1,2-Dichloroethane	6.76	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
1,1-Dichloroethene	1.68	0.500	5.00	NA	J	µg/L	3/28/2015 10:35 PM	PA/VA
cis-1,2-Dichloroethene	1.35	0.500	5.00	NA	J	µg/L	3/28/2015 10:35 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
1,2-Dichloropropane	1.45	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/28/2015 10:35 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 8:45:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-06A	**Matrix:**	Groundwater
Client Sample ID:	MW-11	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	5.57	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Tetrachloroethene	2.78	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Trichloroethene	2.04	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Trichlorofluoromethane	19.0	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	3/28/2015 10:35 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	99.7	NA	68.7-129	NA		%REC	3/28/2015 10:35 PM	
Surr: 4-Bromofluorobenzene	131	NA	71.8-127	NA	S	%REC	3/28/2015 10:35 PM	
Surr: Dibromofluoromethane	91.9	NA	74.3-124	NA		%REC	3/28/2015 10:35 PM	
Surr: Toluene-d8	107	NA	71.4-129	NA		%REC	3/28/2015 10:35 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	66.0	1.0	5.0	NA		mg/L	3/27/2015 1:38 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 10:00:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-07A	**Matrix:**	Groundwater
Client Sample ID:	MW-13	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/2/2015 6:10 PM	PA/VA
Lead	ND	0.0002	0.0100	NA		mg/L	4/2/2015 6:10 PM	PA/VA
Nickel	ND	0.0020	0.0500	NA		mg/L	4/2/2015 6:10 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/28/2015 11:09 PM	
Acetone	ND	5.00	100	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Benzene	0.550	0.500	1.00	NA	J	µg/L	3/28/2015 11:09 PM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 11:09 PM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/28/2015 11:09 PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Chloroethane	ND	0.500	10.0	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/28/2015 11:09 PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 11:09 PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
1,1-Dichloroethane	33.2	5.00	10.0	NA		µg/L	4/2/2015 10:00 PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
1,1-Dichloroethene	2.31	0.500	5.00	NA	J	µg/L	3/28/2015 11:09 PM	PA/VA
cis-1,2-Dichloroethene	23.1	5.00	10.0	NA		µg/L	4/2/2015 10:00 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/28/2015 11:09 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 10:00:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-07A	**Matrix:**	Groundwater
Client Sample ID:	MW-13	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Tetrachloroethene	3.65	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Trichloroethene	18.0	5.00	10.0	NA		µg/L	4/2/2015 10:00 PM	PA/VA
Trichlorofluoromethane	10.0	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Vinyl chloride	7.59	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	3/28/2015 11:09 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	94.4	NA	68.7-129	NA		%REC	3/28/2015 11:09 PM	
Surr: 4-Bromofluorobenzene	106	NA	71.8-127	NA		%REC	4/2/2015 10:00 PM	
Surr: Dibromofluoromethane	93.9	NA	74.3-124	NA		%REC	3/28/2015 11:09 PM	
Surr: Toluene-d8	106	NA	71.4-129	NA		%REC	3/28/2015 11:09 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	6.0	1.0	5.0	NA		mg/L	3/27/2015 1:38 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 12:26:00 PM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-08A	**Matrix:**	Groundwater
Client Sample ID:	MW-14	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/2/2015 6:15 PM	PA/VA
Lead	ND	0.0002	0.0100	NA		mg/L	4/2/2015 6:15 PM	PA/VA
Nickel	ND	0.0020	0.0500	NA		mg/L	4/2/2015 6:15 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/28/2015 11:43 PM	
Acetone	ND	5.00	100	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Benzene	13.4	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 11:43 PM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/28/2015 11:43 PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Chlorobenzene	8.05	0.500	3.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Chloroethane	6.78	0.500	10.0	NA	J	µg/L	3/28/2015 11:43 PM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/28/2015 11:43 PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 11:43 PM	PA/VA
1,2-Dichlorobenzene	0.920	0.500	5.00	NA	J	µg/L	3/28/2015 11:43 PM	PA/VA
1,4-Dichlorobenzene	25.0	10.0	20.0	NA		µg/L	4/3/2015 1:17 PM	PA/VA
1,1-Dichloroethane	159	10.0	100	NA		µg/L	4/3/2015 1:17 PM	PA/VA
1,2-Dichloroethane	4.90	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
1,1-Dichloroethene	0.550	0.500	5.00	NA	J	µg/L	3/28/2015 11:43 PM	PA/VA
cis-1,2-Dichloroethene	194	10.0	100	NA		µg/L	4/3/2015 1:17 PM	PA/VA
trans-1,2-Dichloroethene	1.18	0.500	5.00	NA	J	µg/L	3/28/2015 11:43 PM	PA/VA
1,2-Dichloropropane	3.67	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Ethylbenzene	0.530	0.500	1.00	NA	J	µg/L	3/28/2015 11:43 PM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/28/2015 11:43 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 12:26:00 PM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-08A	**Matrix:**	Groundwater
Client Sample ID:	MW-14	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Trichloroethene	31.6	10.0	20.0	NA		µg/L	4/3/2015 1:17 PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/28/2015 11:43 PM	PA/VA
Vinyl chloride	31.8	10.0	20.0	NA		µg/L	4/3/2015 1:17 PM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	3/28/2015 11:43 PM	PA/VA
m,p-Xylene	94.4	20.0	40.0	NA		µg/L	4/3/2015 1:17 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	97.2	NA	68.7-129	NA		%REC	4/3/2015 1:17 PM	
Surr: 4-Bromofluorobenzene	106	NA	71.8-127	NA		%REC	4/3/2015 1:17 PM	
Surr: Dibromofluoromethane	97.0	NA	74.3-124	NA		%REC	4/3/2015 1:17 PM	
Surr: Toluene-d8	98.6	NA	71.4-129	NA		%REC	4/3/2015 1:17 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	33.0	2.0	10	NA		mg/L	3/27/2015 1:38 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 12:42:00 PM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-09A	**Matrix:**	Groundwater
Client Sample ID:	MW-14A	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	0.0046	0.0010	0.0100	NA	J	mg/L	4/2/2015 6:21 PM	PA/VA
Lead	0.0005	0.0002	0.0100	NA	J	mg/L	4/2/2015 6:21 PM	PA/VA
Nickel	ND	0.0020	0.0500	NA		mg/L	4/2/2015 6:21 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	4/2/2015 6:32 PM	
Acetone	ND	5.00	100	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	4/2/2015 6:32 PM	PA/VA
MEK	ND	5.00	100	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	4/2/2015 6:32 PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Chloroethane	ND	0.500	10.0	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	4/2/2015 6:32 PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	4/2/2015 6:32 PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
1,1-Dichloroethane	3.71	0.500	5.00	NA	J	µg/L	4/2/2015 6:32 PM	PA/VA
1,2-Dichloroethane	1.70	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
1,1-Dichloroethene	ND	0.500	5.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
cis-1,2-Dichloroethene	3.04	0.500	5.00	NA	J	µg/L	4/2/2015 6:32 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	4/2/2015 6:32 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 12:42:00 PM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-09A	**Matrix:**	Groundwater
Client Sample ID:	MW-14A	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Tetrachloroethene	16.0	5.00	10.0	NA		µg/L	4/6/2015 1:16 PM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Trichloroethene	7.41	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Trichlorofluoromethane	1.43	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	4/2/2015 6:32 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	95.6	NA	68.7-129	NA		%REC	4/2/2015 6:32 PM	
Surr: 4-Bromofluorobenzene	108	NA	71.8-127	NA		%REC	4/2/2015 6:32 PM	
Surr: Dibromofluoromethane	97.0	NA	74.3-124	NA		%REC	4/2/2015 6:32 PM	
Surr: Toluene-d8	97.0	NA	71.4-129	NA		%REC	4/2/2015 6:32 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	20.5	1.0	5.0	NA		mg/L	3/27/2015 1:38 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 11:09:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-10A	**Matrix:**	Groundwater
Client Sample ID:	MW-15	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	0.0028	0.0010	0.0100	NA	J	mg/L	4/2/2015 6:26 PM	PA/VA
Lead	0.0017	0.0002	0.0100	NA	J	mg/L	4/2/2015 6:26 PM	PA/VA
Nickel	0.0062	0.0020	0.0500	NA	J	mg/L	4/2/2015 6:26 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: JM**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/30/2015 3:32 AM	
Acetone	ND	5.00	100	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Benzene	9.21	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 3:32 AM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/30/2015 3:32 AM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Chlorobenzene	3.05	0.500	3.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Chloroethane	0.860	0.500	10.0	NA	J	µg/L	3/30/2015 3:32 AM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,4-Dichlorobenzene	3.34	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,1-Dichloroethane	209	10.0	100	NA		µg/L	4/3/2015 1:52 PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,1-Dichloroethene	1.05	0.500	5.00	NA	J	µg/L	3/30/2015 3:32 AM	PA/VA
cis-1,2-Dichloroethene	189	10.0	100	NA		µg/L	4/3/2015 1:52 PM	PA/VA
trans-1,2-Dichloroethene	0.750	0.500	5.00	NA	J	µg/L	3/30/2015 3:32 AM	PA/VA
1,2-Dichloropropane	0.830	0.500	1.00	NA	J	µg/L	3/30/2015 3:32 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/30/2015 3:32 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 11:09:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-10A	**Matrix:**	Groundwater
Client Sample ID:	MW-15	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	41.4	10.0	20.0	NA		µg/L	4/3/2015 1:52 PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Styrene	0.500	0.500	1.00	NA	J	µg/L	3/30/2015 3:32 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Tetrachloroethene	4.22	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Trichloroethene	73.8	10.0	20.0	NA		µg/L	4/3/2015 1:52 PM	PA/VA
Trichlorofluoromethane	6.57	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Vinyl chloride	7.84	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
o-Xylene	15.1	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
m,p-Xylene	6.00	1.00	2.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Surr: Dibromofluoromethane	103	NA	74.3-124	NA		%REC	3/30/2015 3:32 AM	
Surr: Toluene-d8	95.7	NA	71.4-129	NA		%REC	3/30/2015 3:32 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	164	2.0	10	NA		mg/L	3/27/2015 1:38 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 9:11:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-11A	**Matrix:**	Groundwater
Client Sample ID:	MW-16	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	0.0094	0.0010	0.0100	NA	J	mg/L	4/2/2015 6:38 PM	PA/VA
Lead	0.0004	0.0002	0.0100	NA	J	mg/L	4/2/2015 6:38 PM	PA/VA
Nickel	0.0131	0.0020	0.0500	NA	J	mg/L	4/2/2015 6:38 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: JM**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/30/2015 4:06 AM	
Acetone	ND	5.00	100	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Benzene	3.66	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 4:06 AM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/30/2015 4:06 AM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Chloroethane	31.0	10.0	20.0	NA		µg/L	4/2/2015 11:10 PM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,4-Dichlorobenzene	0.960	0.500	1.00	NA	J	µg/L	3/30/2015 4:06 AM	PA/VA
1,1-Dichloroethane	171	10.0	100	NA		µg/L	4/2/2015 11:10 PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,1-Dichloroethene	0.950	0.500	5.00	NA	J	µg/L	3/30/2015 4:06 AM	PA/VA
cis-1,2-Dichloroethene	24.4	0.500	5.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,2-Dichloropropane	1.38	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/30/2015 4:06 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 9:11:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-11A	**Matrix:**	Groundwater
Client Sample ID:	MW-16	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	0.650	0.500	1.00	NA	J	µg/L	3/30/2015 4:06 AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Tetrachloroethene	1.19	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Trichloroethene	13.4	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Trichlorofluoromethane	6.68	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Vinyl chloride	10.3	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Surr: Dibromofluoromethane	89.5	NA	74.3-124	NA		%REC	3/30/2015 4:06 AM	
Surr: Toluene-d8	96.1	NA	71.4-129	NA		%REC	3/30/2015 4:06 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	18.5	1.0	5.0	NA		mg/L	3/27/2015 1:38 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 8:40:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-12A	**Matrix:**	Groundwater
Client Sample ID:	MW-16A	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/2/2015 6:43 PM	PA/VA
Lead	ND	0.0002	0.0100	NA		mg/L	4/2/2015 6:43 PM	PA/VA
Nickel	ND	0.0020	0.0500	NA		mg/L	4/2/2015 6:43 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/29/2015 9:52 PM	
Acetone	25.9	5.00	100	NA	J	µg/L	3/29/2015 9:52 PM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/29/2015 9:52 PM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/29/2015 9:52 PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Chloroethane	ND	0.500	10.0	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/29/2015 9:52 PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/29/2015 9:52 PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
1,4-Dichlorobenzene	0.740	0.500	1.00	NA	J	µg/L	3/29/2015 9:52 PM	PA/VA
1,1-Dichloroethane	34.7	5.00	10.0	NA		µg/L	4/2/2015 10:35 PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
1,1-Dichloroethene	2.69	0.500	5.00	NA	J	µg/L	3/29/2015 9:52 PM	PA/VA
cis-1,2-Dichloroethene	27.6	5.00	10.0	NA		µg/L	4/2/2015 10:35 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
2-Hexanone	13.9	5.00	50.0	NA	J	µg/L	3/29/2015 9:52 PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/29/2015 9:52 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 8:40:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-12A	**Matrix:**	Groundwater
Client Sample ID:	MW-16A	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
4-Methyl-2-pentanone	8.07	5.00	100	NA	J	µg/L	3/29/2015 9:52 PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Tetrachloroethene	2.51	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Trichloroethene	22.4	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Trichlorofluoromethane	12.3	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Vinyl chloride	6.15	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	3/29/2015 9:52 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	95.5	NA	68.7-129	NA		%REC	3/29/2015 9:52 PM	
Surr: 4-Bromofluorobenzene	117	NA	71.8-127	NA		%REC	3/29/2015 9:52 PM	
Surr: Dibromofluoromethane	95.1	NA	74.3-124	NA		%REC	3/29/2015 9:52 PM	
Surr: Toluene-d8	110	NA	71.4-129	NA		%REC	3/29/2015 9:52 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	ND	1.0	5.0	NA		mg/L	3/27/2015 1:38 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 12:00:00 PM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-13A	**Matrix:**	Groundwater
Client Sample ID:	MW-20	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/2/2015 7:00 PM	PA/VA
Lead	ND	0.0002	0.0100	NA		mg/L	4/2/2015 7:00 PM	PA/VA
Nickel	ND	0.0020	0.0500	NA		mg/L	4/2/2015 7:00 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/29/2015 10:26 PM	
Acetone	ND	5.00	100	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Benzene	14.6	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/29/2015 10:26 PM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/29/2015 10:26 PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Chlorobenzene	1.13	0.500	3.00	NA	J	µg/L	3/29/2015 10:26 PM	PA/VA
Chloroethane	ND	0.500	10.0	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/29/2015 10:26 PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/29/2015 10:26 PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
1,4-Dichlorobenzene	3.07	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
1,1-Dichloroethane	406	10.0	100	NA		µg/L	4/2/2015 11:44 PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
1,1-Dichloroethene	15.6	0.500	5.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
cis-1,2-Dichloroethene	811	50.0	500	NA		µg/L	4/6/2015 1:51 PM	PA/VA
trans-1,2-Dichloroethene	1.67	0.500	5.00	NA	J	µg/L	3/29/2015 10:26 PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/29/2015 10:26 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 12:00:00 PM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-13A	**Matrix:**	Groundwater
Client Sample ID:	MW-20	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	22.9	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Tetrachloroethene	61.4	10.0	20.0	NA		µg/L	4/2/2015 11:44 PM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
1,1,1-Trichloroethane	1.59	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Trichloroethene	855	50.0	100	NA		µg/L	4/6/2015 1:51 PM	PA/VA
Trichlorofluoromethane	24.0	10.0	20.0	NA		µg/L	4/2/2015 11:44 PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Vinyl chloride	7.59	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
o-Xylene	5.73	0.500	1.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
m,p-Xylene	4.26	1.00	2.00	NA		µg/L	3/29/2015 10:26 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	95.6	NA	68.7-129	NA		%REC	4/2/2015 11:44 PM	
Surr: 4-Bromofluorobenzene	112	NA	71.8-127	NA		%REC	4/2/2015 11:44 PM	
Surr: Dibromofluoromethane	96.9	NA	74.3-124	NA		%REC	4/2/2015 11:44 PM	
Surr: Toluene-d8	99.5	NA	71.4-129	NA		%REC	4/2/2015 11:44 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	8.5	1.0	5.0	NA		mg/L	3/27/2015 2:04 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 11:48:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-14A	**Matrix:**	Groundwater
Client Sample ID:	MW-21	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	0.0019	0.0010	0.0100	NA	J	mg/L	4/2/2015 7:06 PM	PA/VA
Lead	ND	0.0002	0.0100	NA		mg/L	4/2/2015 7:06 PM	PA/VA
Nickel	ND	0.0020	0.0500	NA		mg/L	4/2/2015 7:06 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/29/2015 10:59 PM	
Acetone	ND	5.00	100	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/29/2015 10:59 PM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/29/2015 10:59 PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Chloroethane	ND	0.500	10.0	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/29/2015 10:59 PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/29/2015 10:59 PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
1,1-Dichloroethane	ND	0.500	5.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
1,1-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/29/2015 10:59 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 11:48:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-14A	**Matrix:**	Groundwater
Client Sample ID:	MW-21	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	3/29/2015 10:59 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	91.3	NA	68.7-129	NA		%REC	3/29/2015 10:59 PM	
Surr: 4-Bromofluorobenzene	119	NA	71.8-127	NA		%REC	3/29/2015 10:59 PM	
Surr: Dibromofluoromethane	91.9	NA	74.3-124	NA		%REC	3/29/2015 10:59 PM	
Surr: Toluene-d8	108	NA	71.4-129	NA		%REC	3/29/2015 10:59 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	35.5	1.0	5.0	NA		mg/L	3/27/2015 2:04 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 7:44:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-15A	**Matrix:**	Groundwater
Client Sample ID:	MW-23	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	0.0020	0.0010	0.0100	NA	J	mg/L	4/3/2015 3:37 PM	PA/VA
Lead	0.0015	0.0002	0.0100	NA	J	mg/L	4/3/2015 3:37 PM	PA/VA
Nickel	ND	0.0020	0.0500	NA		mg/L	4/3/2015 3:37 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/30/2015 2:24 AM	
Acetone	ND	5.00	100	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 2:24 AM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/30/2015 2:24 AM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Chloroethane	ND	0.500	10.0	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/30/2015 2:24 AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 2:24 AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
1,1-Dichloroethane	ND	0.500	5.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
1,1-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/30/2015 2:24 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 7:44:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-15A	**Matrix:**	Groundwater
Client Sample ID:	MW-23	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	3/30/2015 2:24 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	99.9	NA	68.7-129	NA		%REC	3/30/2015 2:24 AM	
Surr: 4-Bromofluorobenzene	111	NA	71.8-127	NA		%REC	3/30/2015 2:24 AM	
Surr: Dibromofluoromethane	96.7	NA	74.3-124	NA		%REC	3/30/2015 2:24 AM	
Surr: Toluene-d8	100	NA	71.4-129	NA		%REC	3/30/2015 2:24 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	462	2.0	10	NA		mg/L	3/27/2015 2:04 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 11:29:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-16A	**Matrix:**	Groundwater
Client Sample ID:	MW-24	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	0.0302	0.0050	0.0500	NA	J	mg/L	4/3/2015 3:49 PM	PA/VA
Lead	0.0069	0.0002	0.0100	NA	J	mg/L	4/3/2015 4:05 PM	PA/VA
Nickel	0.0164	0.0100	0.250	NA	J	mg/L	4/3/2015 3:49 PM	PA/VA

Notes:

The reporting limits elevated due to matrix complexity/interference.

VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/30/2015 2:58 AM	
Acetone	ND	5.00	100	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 2:58 AM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/30/2015 2:58 AM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Chloroethane	ND	0.500	10.0	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/30/2015 2:58 AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 2:58 AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
1,1-Dichloroethane	ND	0.500	5.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
1,1-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/30/2015 2:58 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 11:29:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-16A	**Matrix:**	Groundwater
Client Sample ID:	MW-24	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Iodomethane	ND	5.00	10.0	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	3/30/2015 2:58 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	101	NA	68.7-129	NA		%REC	3/30/2015 2:58 AM	
Surr: 4-Bromofluorobenzene	115	NA	71.8-127	NA		%REC	3/30/2015 2:58 AM	
Surr: Dibromofluoromethane	94.4	NA	74.3-124	NA		%REC	3/30/2015 2:58 AM	
Surr: Toluene-d8	103	NA	71.4-129	NA		%REC	3/30/2015 2:58 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	1,620	4.0	20.0	NA		mg/L	3/27/2015 2:04 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 11:38:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-17A	**Matrix:**	Groundwater
Client Sample ID:	MW-24D	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	0.0031	0.0010	0.0100	NA	J	mg/L	4/3/2015 4:11 PM	PA/VA
Lead	0.0005	0.0002	0.0100	NA	J	mg/L	4/3/2015 4:11 PM	PA/VA
Nickel	ND	0.0020	0.0500	NA		mg/L	4/3/2015 4:11 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/30/2015 3:32 AM	
Acetone	ND	5.00	100	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 3:32 AM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/30/2015 3:32 AM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Chloroethane	ND	0.500	10.0	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,1-Dichloroethane	ND	0.500	5.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,1-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/30/2015 3:32 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 11:38:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-17A	**Matrix:**	Groundwater
Client Sample ID:	MW-24D	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	3/30/2015 3:32 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	105	NA	68.7-129	NA		%REC	3/30/2015 3:32 AM	
Surr: 4-Bromofluorobenzene	112	NA	71.8-127	NA		%REC	3/30/2015 3:32 AM	
Surr: Dibromofluoromethane	96.7	NA	74.3-124	NA		%REC	3/30/2015 3:32 AM	
Surr: Toluene-d8	98.6	NA	71.4-129	NA		%REC	3/30/2015 3:32 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	31.5	1.0	5.0	NA		mg/L	3/27/2015 2:04 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 11:55:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-18A	**Matrix:**	Groundwater
Client Sample ID:	OW-1	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/3/2015 4:17 PM	PA/VA
Lead	0.0006	0.0002	0.0100	NA	J	mg/L	4/3/2015 4:17 PM	PA/VA
Nickel	ND	0.0020	0.0500	NA		mg/L	4/3/2015 4:17 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/30/2015 4:06 AM	
Acetone	ND	5.00	100	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Benzene	2.38	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 4:06 AM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/30/2015 4:06 AM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Chlorobenzene	1.23	0.500	3.00	NA	J	µg/L	3/30/2015 4:06 AM	PA/VA
Chloroethane	9.70	0.500	10.0	NA	J	µg/L	3/30/2015 4:06 AM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,4-Dichlorobenzene	0.770	0.500	1.00	NA	J	µg/L	3/30/2015 4:06 AM	PA/VA
1,1-Dichloroethane	22.5	0.500	5.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,1-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
cis-1,2-Dichloroethene	15.1	0.500	5.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/30/2015 4:06 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 11:55:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-18A	**Matrix:**	Groundwater
Client Sample ID:	OW-1	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Tetrachloroethene	3.86	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Trichloroethene	6.07	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Vinyl chloride	12.4	0.500	1.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
o-Xylene	0.580	0.500	1.00	NA	J	µg/L	3/30/2015 4:06 AM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	3/30/2015 4:06 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	106	NA	68.7-129	NA		%REC	3/30/2015 4:06 AM	
Surr: 4-Bromofluorobenzene	112	NA	71.8-127	NA		%REC	3/30/2015 4:06 AM	
Surr: Dibromofluoromethane	100	NA	74.3-124	NA		%REC	3/30/2015 4:06 AM	
Surr: Toluene-d8	98.6	NA	71.4-129	NA		%REC	3/30/2015 4:06 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	31.0	2.0	10	NA		mg/L	3/27/2015 2:04 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 10:10:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-19A	**Matrix:**	Groundwater
Client Sample ID:	CR-1	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/3/2015 4:22 PM	PA/VA
Lead	ND	0.0002	0.0100	NA		mg/L	4/3/2015 4:22 PM	PA/VA
Nickel	ND	0.0020	0.0500	NA		mg/L	4/3/2015 4:22 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/30/2015 4:40 AM	
Acetone	ND	5.00	100	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 4:40 AM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/30/2015 4:40 AM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Chloroethane	4.53	0.500	10.0	NA	J	µg/L	3/30/2015 4:40 AM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/30/2015 4:40 AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 4:40 AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
1,1-Dichloroethane	4.55	0.500	5.00	NA	J	µg/L	3/30/2015 4:40 AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
1,1-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
cis-1,2-Dichloroethene	0.620	0.500	5.00	NA	J	µg/L	3/30/2015 4:40 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/30/2015 4:40 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 10:10:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-19A	**Matrix:**	Groundwater
Client Sample ID:	CR-1	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	3/30/2015 4:40 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	101	NA	68.7-129	NA		%REC	3/30/2015 4:40 AM	
Surr: 4-Bromofluorobenzene	119	NA	71.8-127	NA		%REC	3/30/2015 4:40 AM	
Surr: Dibromofluoromethane	94.7	NA	74.3-124	NA		%REC	3/30/2015 4:40 AM	
Surr: Toluene-d8	104	NA	71.4-129	NA		%REC	3/30/2015 4:40 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	2.0	1.0	5.0	NA	J	mg/L	3/27/2015 2:04 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 10:25:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-20A	**Matrix:**	Groundwater
Client Sample ID:	SW-2	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/3/2015 4:28 PM	PA/VA
Lead	ND	0.0002	0.0100	NA		mg/L	4/3/2015 4:28 PM	PA/VA
Nickel	ND	0.0020	0.0500	NA		mg/L	4/3/2015 4:28 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/30/2015 5:14 AM	
Acetone	ND	5.00	100	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 5:14 AM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/30/2015 5:14 AM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Chloroethane	1.30	0.500	10.0	NA	J	µg/L	3/30/2015 5:14 AM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/30/2015 5:14 AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 5:14 AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
1,1-Dichloroethane	1.87	0.500	5.00	NA	J	µg/L	3/30/2015 5:14 AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
1,1-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/30/2015 5:14 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 10:25:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-20A	**Matrix:**	Groundwater
Client Sample ID:	SW-2	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	3/30/2015 5:14 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	101	NA	68.7-129	NA		%REC	3/30/2015 5:14 AM	
Surr: 4-Bromofluorobenzene	119	NA	71.8-127	NA		%REC	3/30/2015 5:14 AM	
Surr: Dibromofluoromethane	96.6	NA	74.3-124	NA		%REC	3/30/2015 5:14 AM	
Surr: Toluene-d8	102	NA	71.4-129	NA		%REC	3/30/2015 5:14 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	2.5	1.0	5.0	NA	J	mg/L	3/27/2015 2:04 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 8:40:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-21A	**Matrix:**	Groundwater
Client Sample ID:	MW-16A DUPLICATE	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	ND	0.0010	0.0100	NA		mg/L	4/2/2015 7:11 PM	PA/VA
Lead	ND	0.0002	0.0100	NA		mg/L	4/2/2015 7:11 PM	PA/VA
Nickel	ND	0.0020	0.0500	NA		mg/L	4/2/2015 7:11 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/28/2015 7:44 PM	
Acetone	ND	5.00	100	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 7:44 PM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/28/2015 7:44 PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Chloroethane	ND	0.500	10.0	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/28/2015 7:44 PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/28/2015 7:44 PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
1,1-Dichloroethane	32.9	5.00	50.0	NA	J	µg/L	4/2/2015 7:41 PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
1,1-Dichloroethene	2.33	0.500	5.00	NA	J	µg/L	3/28/2015 7:44 PM	PA/VA
cis-1,2-Dichloroethene	24.9	5.00	50.0	NA	J	µg/L	4/2/2015 7:41 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/28/2015 7:44 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 8:40:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-21A	**Matrix:**	Groundwater
Client Sample ID:	MW-16A DUPLICATE	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Tetrachloroethene	2.18	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Trichloroethene	14.9	5.00	10.0	NA		µg/L	4/2/2015 7:41 PM	PA/VA
Trichlorofluoromethane	10.7	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Vinyl chloride	5.53	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	3/28/2015 7:44 PM	PA/VA
Surr: 1,2-Dichloroethane-d4	99.4	NA	68.7-129	NA		%REC	3/28/2015 7:44 PM	
Surr: 4-Bromofluorobenzene	118	NA	71.8-127	NA		%REC	3/28/2015 7:44 PM	
Surr: Dibromofluoromethane	95.6	NA	74.3-124	NA		%REC	3/28/2015 7:44 PM	
Surr: Toluene-d8	102	NA	71.4-129	NA		%REC	3/28/2015 7:44 PM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	ND	1.0	5.0	NA		mg/L	3/27/2015 2:04 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 10:00:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-22A	**Matrix:**	Groundwater
Client Sample ID:	MW-13 DUPLICATE	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
TOTAL METALS by ICP-MS			**Method: SW6020A (1998)**				**Analyst: LF**	
Chromium	0.0012	0.0010	0.0100	NA	J	mg/L	4/3/2015 4:33 PM	PA/VA
Lead	ND	0.0002	0.0100	NA		mg/L	4/3/2015 4:33 PM	PA/VA
Nickel	ND	0.0020	0.0500	NA		mg/L	4/3/2015 4:33 PM	PA/VA
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/30/2015 5:48 AM	
Acetone	ND	5.00	100	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Benzene	0.560	0.500	1.00	NA	J	µg/L	3/30/2015 5:48 AM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 5:48 AM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/30/2015 5:48 AM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Chloroethane	ND	0.500	10.0	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/30/2015 5:48 AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 5:48 AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
1,1-Dichloroethane	35.4	5.00	50.0	NA	J	µg/L	4/2/2015 8:16 PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
1,1-Dichloroethene	1.85	0.500	5.00	NA	J	µg/L	3/30/2015 5:48 AM	PA/VA
cis-1,2-Dichloroethene	25.1	5.00	50.0	NA	J	µg/L	4/2/2015 8:16 PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/30/2015 5:48 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 10:00:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-22A	**Matrix:**	Groundwater
Client Sample ID:	MW-13 DUPLICATE	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Methylene chloride	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Tetrachloroethene	2.84	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Trichloroethene	18.5	5.00	10.0	NA		µg/L	4/2/2015 8:16 PM	PA/VA
Trichlorofluoromethane	7.81	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Vinyl chloride	6.64	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	3/30/2015 5:48 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	104	NA	68.7-129	NA		%REC	3/30/2015 5:48 AM	
Surr: 4-Bromofluorobenzene	117	NA	71.8-127	NA		%REC	3/30/2015 5:48 AM	
Surr: Dibromofluoromethane	101	NA	74.3-124	NA		%REC	3/30/2015 5:48 AM	
Surr: Toluene-d8	102	NA	71.4-129	NA		%REC	3/30/2015 5:48 AM	
TOTAL SUSPENDED SOLIDS			**Method: SM2540 D-1997**				**Analyst: SF**	
Total Suspended Solids	10.5	1.0	5.0	NA		mg/L	3/27/2015 2:04 PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 12:00:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-23A	**Matrix:**	Trip Blank
Client Sample ID:	TRIP BLANK #4	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B (1996)**				**Analyst: TC**	
trans-1,4-Dichloro-2-butene	ND	5.00	50.0	NA		µg/L	3/30/2015 6:23 AM	
Acetone	ND	5.00	100	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Acrylonitrile	ND	5.00	200	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Bromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Bromoform	ND	0.500	3.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Bromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 6:23 AM	PA/VA
MEK	ND	5.00	100	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Carbon disulfide	ND	2.50	100	NA		µg/L	3/30/2015 6:23 AM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Chlorobenzene	ND	0.500	3.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Chloroethane	ND	0.500	10.0	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Chloroform	ND	0.500	5.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Dibromochloromethane	ND	0.500	3.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
DBCP	ND	0.500	13.0	NA		µg/L	3/30/2015 6:23 AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Dibromomethane	ND	0.500	10.0	NA		µg/L	3/30/2015 6:23 AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	5.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
1,1-Dichloroethane	ND	0.500	5.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
1,1-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	5.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
2-Hexanone	ND	5.00	50.0	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	100	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	5.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	3.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1503V14

Date Reported: 5/12/2015

Client:	COUNTY OF CATAWBA	**Collection Date:**	3/24/2015 12:00:00 AM
Project:	NEWTON - 1SA 2015	**Date Received:**	3/26/2015
Lab ID:	1503V14-23A	**Matrix:**	Trip Blank
Client Sample ID:	TRIP BLANK #4	**Site ID:**	CATAWBA CO N.C.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed	NELAP
Tetrachloroethene	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Vinyl acetate	ND	5.00	50.0	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	3/30/2015 6:23 AM	PA/VA
Surr: 1,2-Dichloroethane-d4	100	NA	68.7-129	NA		%REC	3/30/2015 6:23 AM	
Surr: 4-Bromofluorobenzene	116	NA	71.8-127	NA		%REC	3/30/2015 6:23 AM	
Surr: Dibromofluoromethane	95.3	NA	74.3-124	NA		%REC	3/30/2015 6:23 AM	
Surr: Toluene-d8	106	NA	71.4-129	NA		%REC	3/30/2015 6:23 AM	

CHAIN OF CUSTODY RECORD

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

V5-1109 REIC use ONLY CLIENT ID _____ DATE _____ SHEET 1 OF 3

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 Mcbride/Farley/Talley/Bennett

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-1	6	3-24-15 / 1016	GWater	Grab	✓	✓							
MW-3	6	0815	GWater	Grab	✓	✓							
MW-9	6	0855	GWater	Grab	✓	✓							
MW-10A	6	0929	GWater	Grab	✓	✓							
MW-10B	6	0936	GWater	Grab	✓	✓							
MW-11	6	0845	GWater	Grab	✓	✓							
MW-13	6	1000	GWater	Grab	✓	✓							
MW-14	6	1226	GWater	Grab	✓	✓							
MW-14A	6	1242	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: 2 °C ICED? Y✓ N___

1 Relinquished by (signature)	3-26-15 0830 Date/Time	2 Relinquished by (signature)	Date/Time	3 Relinquished by (signature)	Date/Time
Received by (signature)	3-26-15 08:30 Date/Time	Received by (signature)	Date/Time	Received by (signature)	Date/Time

CHAIN OF CUSTODY RECORD

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

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

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 Mcbride/Farley/Talley/Bennett

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	3-24-15 / 1109	GWater	Grab	✓	✓							
MW-16	6	0911	GWater	Grab	✓	✓							
MW-16A	6	0840	GWater	Grab	✓	✓							
MW-20	6	1200	GWater	Grab	✓	✓							
MW-21	6	1148	GWater	Grab	✓	✓							
MW-23	6	0744	GWater	Grab	✓	✓							
MW-24	6	1129	GWater	Grab	✓	✓							
MW-24D	6	1138	GWater	Grab	✓	✓							
OW-1	6	1155	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: 2 °C ICED? Y X N___

1		2		3	
Relinquished by (signature)	3-26-15 0830 Date/Time	Relinquished by (signature)	Date/Time	Relinquished by (signature)	Date/Time
Received by (signature)	3-26-15 0830 Date/Time	Received by (signature)	Date/Time	Received by (signature)	Date/Time

CHAIN OF CUSTODY RECORD

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

REIC
Research Environmental & Industrial Consultants, Inc.
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Verona, VA 24482
540-248-0183

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

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

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	No Sample	GWater	Grab									
CR-1	6	3-24-15 / 1010	GWater	Grab	✓	✓							
SW-2	6	1025	GWater	Grab	✓	✓							
MW- 16 A DUPLICATE	18	0840	GWater	Grab	✓	✓							
MW- 13 DUPLICATE	18	1000	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: 2 °C ICED? Y ✓ N___

1 Relinquished by (signature)	3-26-15 0830	2 Relinquished by (signature)	Date/Time	3 Relinquished by (signature)	Date/Time
Received by (signature)	3-26-15 0830	Received by (signature)	Date/Time	Received by (signature)	Date/Time

Newton Landfill

(Catawba County, North Carolina)

Permit Number: 18-01

Appendix G:

Historical Summary of Detections

Historical Summary of Detections

MW-1

Monitoring Well: MW-1

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

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

	Parameter	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
1	1,1,1,2-Tetrachloroethane	0.005	ND	ND	ND	ND	ND	ND	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.001	ND	0.0258	ND	ND	ND	ND	0.2	0.001	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
4	1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	0.001	0.113	0.106	0.242	0.248	0.17	0.181	0.006	0.005	0.117	0.206	0.162	0.227	ND
6	1,1-Dichloroethene	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	0.001	ND	ND	ND	ND	ND	ND	0.0000005	0.001	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
9	1,2-Dibromoethane (EDB)	0.001	ND	ND	ND	ND	ND	ND	0.00002	0.001	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
11	1,2-Dichloroethane	0.001	ND	ND	ND	0.0054	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	0.001	ND	0.0022	0.005	ND	ND	ND	0.0006	0.001	ND	0.0057	ND	0.0061	0.0062
13	1,4-Dichlorobenzene	0.001	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)	0.100	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	0.050	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	0.100	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	0.100	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	0.200	ND	ND	ND	ND	ND	ND		0.200	ND	ND	ND	ND	ND
19	Benzene	0.001	0.010	0.013	0.014	0.014	0.014	0.0154	0.001	0.001	0.0132	0.0141	0.0147	0.0146	0.0147
20	Bromochloromethane	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	ND	ND	ND	ND
21	BromodichloromethaneBromodichloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	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
24	Carbon disulfide	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	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
26	Chlorobenzene	0.003	ND	ND	ND	0.0002 J	ND	ND	0.05	0.003	ND	0.0002 J	ND	0.0002 J	ND
27	Chloroethane	0.010	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	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.001	ND	0.0078	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND
32	DibromochloromethaneDibromochloromethane	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003	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
34	Ethylbenzene	0.001	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)	0.010	ND	ND	ND	ND	ND	ND		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	0.001	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	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND
38	Tetrachloroethene	0.001	ND	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND	ND
39	Toluene	0.001	0.453	0.232	0.527	0.566	0.239	0.25	0.6	0.001	0.185	0.293	0.171	0.195	0.221
40	trans-1,2-Dichloroethene	0.005	ND	ND	ND	ND	ND	ND	0.10	0.005	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
42	trans-1,4-Dichloro-2-butene	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	0.001	ND	ND	ND	0.0005 J	ND	ND	0.003	0.001	ND	ND	ND	ND	0.0003 J
44	Trichlorofluoromethane	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0041	ND
45	Vinyl acetate	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	0.001	ND	ND	ND	0.028	0.023	0.0221	0.00003	0.001	0.0213	ND	0.0210	0.0171	0.0154
47	Xylenes	0.003	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	0.010	J	J	0.0037 J	0.0038 J	0.0025 J	0.0030 J	0.01	0.010	.0021 J	.0033 J	0.0062 J	0.0054 J	0.0033 J
49	Lead	0.010	ND	ND	0.0004 J	0.0004 J	ND	0.0005 J	0.015	0.010	ND	ND	ND	ND	ND
50	Nickel	0.050	J	J	0.0258	0.0401 J	0.0313 J	0.0423 J	0.1	0.050	.0349 J	.0442 J	0.0485 J	0.0506	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.

Monitoring Well: MW-1

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	39 Sep-2012	40 Mar-2013	41 Sep-2013	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	ND	0.0012	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.219	0.273 J	0.211	0.104	0.193 J	0.0905
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND	ND	ND	0.0016	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0061	0.0055	0.0075	0.0047	0.0037	0.0055
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0021	0.0018	0.0020	0.0014	0.0018	0.0019
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	6.40	18.6	10.2	8.93	17.3	6.73
15	2-Hexanone	mg/L	0.04	0.050	0.141	0.196	0.198	0.225	0.176	0.192
16	4-Methyl-2-pentanone	mg/L		0.100	0.900	2.00 J	1.45	1.29	2.50 J	1.09
17	Acetone	mg/L	6	0.100	6.30	19.1	8.34 J	8.46	14.9	6.34
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0141	0.0129	0.0141	0.0128	0.0123	0.0129
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND	ND
21	BromodichloromethaneBromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	0.0003 J	0.0002 J	ND	ND	ND	ND
27	Chloroethane	mg/L	3	0.010	0.257	0.600 J	0.221	0.227	0.385 J	0.274
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	ND	0.0059	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	0.0027 J	ND
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	DibromochloromethaneDibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	0.0298	0.0226	0.0247	0.0177	0.0230	0.0239
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	0.0304	0.0238	0.0301	0.0183	0.0169	0.0148
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	0.0004 J	0.0006 J	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND
39	Toluene	mg/L	0.6	0.001	0.153	0.370	0.254	0.172	0.356	0.197
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	ND	ND	ND	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND	ND	ND	0.0016	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	0.0057 J	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND	0.0169	0.0127	0.0097	ND
47	Xylenes	mg/L	0.5	0.005	0.0424	0.0368	0.0437	0.0340	0.0377	0.0410
48	Chromium	mg/L	0.01	0.010	0.0042 J	0.0037 J	0.0040 J	0.0034 J	0.0030 J	0.0041 J
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	0.0545	0.0526	0.0585	0.0547	0.0544	0.0819

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	BromodichloromethaneBromodichloromethane	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	DibromochloromethaneDibromochloromethane	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	BromodichloromethaneBromodichloromethane	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	DibromochloromethaneDibromochloromethane	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.

Monitoring Well: MW-3

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0414 J	0.0360 J	0.0418	0.0402 E	0.0421
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.0038 J	0.0035 J	0.0045 J	0.0028 J	0.0030 J
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	0.0076 J	0.0475 J	ND	0.139	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	ND	0.0078 J	ND
17	Acetone	mg/L	6	0.100	ND	0.0834 J	ND	0.221	ND
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0015	0.0015	0.0014	0.0016	0.0019
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	BromodichloromethaneBromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	3	0.010	0.0049 J	0.0020 J	0.0023 J	0.0018 J	0.0034 J
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	0.0022	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0012 J	ND	0.0010 J	0.0016 J	0.0016 J
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
32	DibromochloromethaneDibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND	ND	0.0075	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	0.0047	0.0021	0.0072	0.0027
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0025	0.0032	0.0035	0.0032	0.0031
39	Toluene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	0.0038 J	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0051	0.0042	0.0049	0.0046	0.0056
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND	ND	0.0016	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND	ND	0.0008 J	0.0009 J
47	Xylenes	mg/L	0.5	0.005	0.0099	0.0095	0.0099	0.0101	0.0127
48	Chromium	mg/L	0.01	0.010	0.0011 J	ND	ND	0.0013 J	ND
49	Lead	mg/L	0.015	0.010	0.0016 J	0.0046 J	0.0042 J	0.0026 J	0.0014 J
50	Nickel	mg/L	0.1	0.050	0.0025 J	0.0057 J	0.0041 J	0.0037 J	0.0052 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

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

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

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

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

Historical Summary of Detections

MW-7A

Monitoring Well: MW-7A

Newton Landfill - Permit: #18-01

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	BromodichloromethaneBromodichloromethane	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	DibromochloromethaneDibromochloromethane	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	BromodichloromethaneBromodichloromethane	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	DibromochloromethaneDibromochloromethane	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	42 Mar-2014	43 Sep-2014	44 Mar-2015
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			0.0008 J	
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			0.0128 J	
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	BromodichloromethaneBromodichloromethane	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	DibromochloromethaneDibromochloromethane	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			0.0007 J	
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			0.0030 J	
49	Lead	mg/L	0.015	0.010			0.0009 J	
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-9

Monitoring Well: MW-9

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
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	0.0066	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	0.371	0.100	ND	1.240	0.824	1.840	0.159	0.160	0.006	0.132	0.007
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.009	ND	ND	ND	0.019	0.022	0.0224	0.015	0.021	0.0184	0.0116	0.0094
39	Toluene	mg/L	1.0	0.005	0.182	0.138	0.312	0.391	1.15	0.021	0.0836	0.078	0.109	0.075	0.153	0.0906
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	0.066	0.028	0.045	0.089	0.061	0.030	0.044	0.035	0.047	0.0351	0.0350	0.0261
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.005	ND	ND	0.011	ND	ND	ND	ND	ND	ND	ND	ND
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	0.007	0.015	0.015	0.007	0.0158	0.010	0.016	0.0242	0.0161	0.0222
47	Xylenes	mg/L	0.53	0.005	0.060	0.054	0.068	0.071	0.099	0.012	0.019	0.021	0.043	0.038	0.077	0.070
48	Chromium	mg/L	0.05	0.010	0.032	0.076	0.0198	ND	0.034	0.047	0.0361	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	0.019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	0.121	0.105	0.0853	ND	0.254	0.341	0.294	0.210	0.230	0.254	0.526	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	0.458	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	0.00004	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	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	0.0957	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	0.0086
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	.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	.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	0.0089	0.00198	0.6	0.001	0.032	0.0115	0.0134	0.0065	0.0158	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	0.005 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	0.044	0.0593	0.1019	0.0537	0.0371	0.5	0.005	0.1371	0.0567	0.0726	0.0493	0.0755	0.0306
48	Chromium	0.010	J	J	0.0095 J	0.0157	0.0119	0.032	0.01	0.010	0.0034 J	.0032 J	0.0495	0.0052 J	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	.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 - 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-9

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	0.0007 J	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.495 J	0.268	0.227	0.226 J	0.179
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	0.0025 J	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	0.0896	0.117	0.102	0.0945	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0314	0.0229	0.0268	0.0125	0.0212
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0093	0.0096	0.0069	0.0103	0.0102
14	2-Butanone (Methylethyl ketone)	mg/L	4	0.100	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	0.0057 J	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND	ND	0.0133 J	ND
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0161	0.0182	0.0162	0.0146	0.0160
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	0.0016 J	0.0017 J	0.0015 J	0.0015 J	0.0016 J
27	Chloroethane	mg/L	3	0.010	0.0016 J	ND	0.0012 J	0.0011 J	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	0.0014	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.382 E	0.366	0.418	0.130 J	0.134
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	0.0112	0.0130	0.0097	0.0017	0.0031
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	0.0051	0.0049	0.0050	0.0103	0.0061
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	0.0009 J	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0024	0.0013	0.0029	ND	0.0007 J
39	Toluene	mg/L	0.6	0.001	0.0058	0.0056	0.0050	0.0028	0.0049
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	0.0014 J	0.0050 J	0.0028 J	0.0029 J
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0056	0.0020	0.0043	0.0014	0.0016
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND	ND	0.0009 J	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0736	0.0932	0.0542	0.0795	0.0904
47	Xylenes	mg/L	0.5	0.005	0.0603	0.0834	0.0735	0.0289	0.0404
48	Chromium	mg/L	0.01	0.010	0.0130	0.0193	0.0364	0.0342	ND
49	Lead	mg/L	0.015	0.010	0.0016 J	0.0037 J	0.0028 J	0.0029 J	ND
50	Nickel	mg/L	0.1	0.050	0.339	0.304	0.368	0.235	0.302

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

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

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

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

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

Historical Summary of Detections

MW-10A

Monitoring Well: MW-10A

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

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

	Parameter	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.

Monitoring Well: MW-10A

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	0.0006 J	0.0016
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.138	0.214	0.222	0.268	0.190
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	0.0037 J	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND	ND	0.0009 J
11	1,2-Dichloroethane	mg/L	0.0004	0.001	0.0072	0.0057	0.0071	0.0060	0.0064
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0133	0.0046	0.0126	0.0079	0.0122
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0058	0.0062	0.0094	0.0090	0.0097
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	0.0306 J	0.398	1.28	0.314 E
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	0.0226 J	0.0268 J	0.0308 J
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	0.0194 J	0.0284 J	0.0237 J
17	Acetone	mg/L	6	0.100	ND	0.0589 J	0.662	1.61	0.392
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0053	0.0055	0.0078	0.0066	0.0062
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND	ND	0.0023
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	0.0011 J	0.0012 J	0.0013 J	0.0012 J	0.0015 J
27	Chloroethane	mg/L	3	0.010	0.0027 J	ND	0.0045 J	0.0030 J	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	0.0016 J	0.0011 J
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	0.0024
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND	ND	0.0024 J
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND	0.0031	0.0039	0.0024
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	ND	ND	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	ND	0.0007 J
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0006 J	0.0005 J	0.0006 J	ND	ND
39	Toluene	mg/L	0.6	0.001	0.0008 J	0.0043	0.0436	0.0915	0.0324
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	0.0005 J	ND	0.0009 J	0.0011 J
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	0.0006 J	0.0012
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	ND	ND	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND	ND	0.0011	0.0008 J
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND	0.0019	0.0011	0.0007 J
47	Xylenes	mg/L	0.5	0.005	0.0007 J	0.0022 J	0.0140	0.0148	0.0088
48	Chromium	mg/L	0.01	0.010	0.0024 J	0.0025 J	0.0102	0.0092 J	0.0034 J
49	Lead	mg/L	0.015	0.010	0.0005 J	0.0018 J	0.0016 J	0.0013 J	0.0006 J
50	Nickel	mg/L	0.1	0.050	0.0060 J	0.0073 J	0.0096 J	0.0101 J	0.0088 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

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

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

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

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

Historical Summary of Detections

MW-10B

Monitoring Well: MW-10B

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

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

	Parameter	GW Std.	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane	0.001	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.2	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	0.0002	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.0006	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	0.006	0.005	0.050	0.039	0.0446	0.0446 J	0.047	0.0376	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	.0006 J	.0005 J	0.0006 J	0.0005 J	0.0006 J	ND
7	1,2,3-Trichloropropane	0.000005	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.00004	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	0.00002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.02	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	0.0004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	0.0006	0.001	ND	0.001	0.001 J	0.0009 J	ND	ND	.0007 J	.0008 J	0.0008 J	0.0007 J	0.0006 J	ND
13	1,4-Dichlorobenzene	0.006	0.001	ND	ND	ND	ND	ND	ND	ND	.0004 J	0.0005 J	0.0016	0.0003 J	ND
14	2-Butanone (Methyl ethyl ketone)	4	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	0.04	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone		0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	6	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile		0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Bromochloromethane		0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	BromodichloromethaneBromoform	0.0006	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.01	0.010	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	0.0003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	0.05	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	3	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28	Chloroform	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.003	0.001	ND	ND	ND	ND	ND	ND	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	0.0108	0.0106	0.0141	0.0135	0.0145	ND
31	cis-1,3-Dichloropropene	0.0004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	DibromochloromethaneBromomethane (Methylene bromide)	0.0004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.07	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.6	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)		0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	0.005	0.001	0.0016	0.0015	0.001 J	0.0019	0.0013	0.001 J	0.0014	0.0014	0.0016	0.0014	0.0014	ND
37	Styrene	0.07	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	0.0007	0.001	ND	ND	0.0002 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Toluene	0.6	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	0.0004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene		0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	0.003	0.001	0.0038	0.0045	0.0042	0.0046	0.0053	0.0048	0.0049	0.0050	0.0061	0.0054	0.0057	ND
44	Trichlorofluoromethane	2	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0003 J	ND	ND
45	Vinyl acetate	0.088	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	0.00003	0.001	0.0062	0.0075	0.0063	0.0067	0.0059	0.0058	0.0047	0.0039	0.0064	0.0044	ND	ND
47	Xylenes	0.5	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Chromium	0.01	0.010	J	J	0.0034 J	0.0014 J	ND	ND	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	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	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	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0684	0.0206	0.0067	0.0041 J	0.0092
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	0.0014 J	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0009 J	ND	0.0007 J	0.0006 J	0.0006 J
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND	0.0012	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND	ND	0.0162	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	ND	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND	ND	0.0327 J	ND
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	BromodichloromethaneBromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	3	0.010	ND	0.0223	0.0297	0.0171	0.0322 J
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	0.0005 J	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0044 J	ND	0.0004 J	ND	0.0007 J
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
32	DibromochloromethaneDibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	0.0006 J	0.0007 J	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0002 J	0.0005 J	ND	ND	ND
39	Toluene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0004 J	0.0006 J	0.0004 J	ND	0.0009 J
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND	ND	ND	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0228	0.0096	0.0050	0.0030	0.0033
47	Xylenes	mg/L	0.5	0.005	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.01	0.010	ND	ND	ND	0.0011 J	ND
49	Lead	mg/L	0.015	0.010	0.0002 J	ND	0.0003 J	0.0003 J	ND
50	Nickel	mg/L	0.1	0.050	ND	0.0024 J	ND	ND	0.0021 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
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	0.005	0.006	0.006	0.0067	0.0082
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0026	ND	0.0037
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	BromodichloromethaneBromodichloromethane	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	DibromochloromethaneDibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	0.001	0.002	0.0018	0.002	0.002	0.002	0.0011	ND
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	0.001	ND	0.0016	0.001	0.004	0.0014	0.0011	0.001
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.01	0.023	0.021	0.022	0.007	0.033	0.0248	0.021	0.025	0.035	0.0269	0.0249
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

	Parameter	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011	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	0.0063	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	0.005	J	ND	0.001 J	0.001 J	0.0012 J	0.0011 J	0.007	0.005	.0001 J	.0012 J	0.0012 J	0.0012 J	0.0010 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	0.0102	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	0.001	0.0041	0.006	0.0066	0.0068	0.0081	0.0066	0.0004	0.001	ND	0.0088	0.0108	0.0074	0.0054	0.0052
12	1,2-Dichloropropane	0.001	0.001	0.001	0.0011	0.0011	0.0013	0.001	0.0006	0.001	0.0010	0.0010	0.0013	0.0010	0.0010 J	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	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	BromodichloromethaneBromodichloromethane	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	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	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	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	DibromochloromethaneDibromochloromethane	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	.0007 J	ND	0.0023	0.0008 J	0.0014	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	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	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	0.0012	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	0.001	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	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	ND	ND	ND
48	Chromium	0.010	J	J	0.0051 J	0.0057 J	0.0033 J	0.0043 J	0.01	0.010	0.0033 J	.0036 J	0.0031 J	0.0033 J	0.0028 J	0.0022 J
49	Lead	0.010	ND	J	0.0003 J	0.0013 J	0.0003 J	0.0028 J	0.015	0.010	0.0005 J	.0002 J	0.0003 J	0.0002 J	0.0005 J	ND
50	Nickel	0.050	ND	ND	ND	0.0025 J	ND	0.0022 J	0.1	0.050	ND	ND	0.0023 J	0.0023 J	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	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0116	0.0127	0.0140	0.0125	0.0167
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.0011 J	ND	0.0012 J	0.0011 J	0.0017 J
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	0.0062	0.0076	0.0080	0.0055	0.0068
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0010 J	0.0010	0.0014	0.0011	0.0015
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	ND	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	BromodichloromethaneBromoform	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	3	0.010	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	0.0015	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0008 J	0.0010 J	0.0011 J	0.0011 J	0.0014 J
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
32	DibromochloromethaneBromoform	mg/L	0.0004	0.003	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	0.0030	0.0014	0.0054	0.0022	0.0056
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0017	0.0017	0.0017	0.0020	0.0028
39	Toluene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	0.0011 J	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0013	0.0014	0.0017	0.0014	0.0020
44	Trichlorofluoromethane	mg/L	2	0.001	0.0163	0.0136	0.0143	0.0118	0.0190
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND	ND	ND	ND
47	Xylenes	mg/L	0.5	0.005	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.01	0.010	0.0013 J	0.0030 J	0.0023 J	0.0022 J	0.0015 J
49	Lead	mg/L	0.015	0.010	0.0002 J	0.0009 J	0.0005 J	0.0004 J	0.0004 J
50	Nickel	mg/L	0.1	0.050	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

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	BromodichloromethaneBromodichloromethane	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	DibromochloromethaneDibromochloromethane	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	BromodichloromethaneBromodichloromethane	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	DibromochloromethaneDibromochloromethane	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	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0417 J	0.0455 J	0.0379	0.0441	0.0332
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.0022 J	0.0022 J	0.0021 J	0.0016 J	0.0023 J
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	ND	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND	ND J	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0004 J	0.0005 J	0.0006	0.0005 J	0.0006 J
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	BromodichloromethaneBromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	3	0.010	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0412 J	0.0476 J	0.0324	0.0388	0.0231
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
32	DibromochloromethaneDibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	ND	ND	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0024	0.0026	0.0028 J	0.0027	0.0037
39	Toluene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	0.0021 J	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0213	0.0220	0.0246	0.0213	0.0180
44	Trichlorofluoromethane	mg/L	2	0.001	0.0101	0.0080	0.0080	ND	0.0100
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0062	0.0057	0.0074	0.0049	0.0076
47	Xylenes	mg/L	0.5	0.005	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.01	0.010	ND	ND	ND	0.0011 J	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	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

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	BromodichloromethaneBromoform	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	DibromochloromethaneBromomethane	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	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	.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	0.001	0.563	0.267	0.169	0.232	0.18	0.514	0.006	0.005	0.356	0.254	0.419	0.242	ND	0.271
6	1,1-Dichloroethene	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	0.001	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	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	0.001	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	0.001	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	0.001	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)	0.100	ND	ND	ND	ND	ND	ND	4	0.100	ND	ND	ND	ND	ND	ND
15	2-Hexanone	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	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	0.016	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	BromodichloromethaneBromoform	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	J	0.0068 J	ND	0.0043 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	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	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	0.005	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	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	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND
32	DibromochloromethaneBromomethane	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	0.045	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	0.001	0082	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	0.001	ND	ND	ND	ND	ND	ND	0.07	0.001	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	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	0.001	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	0.005	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	0.001	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	0.0541	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	0.001	ND	ND	ND	ND	ND	ND	2	0.001	ND	ND	ND	0.0031	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	0027	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	0.003	0178	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	0.010	J	ND	0.0024 J	ND	ND	ND	0.01	0.010	ND	ND	0.0018 J	ND	ND	ND
49	Lead	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	0.050	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	42 Mar-2014	42 Sep-2014	43 Sep-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	0.0006 J	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.224	0.181	0.182	0.154 J	0.159
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	0.0006 J
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	0.0077	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	0.0006 J	ND	ND	0.0008 J	0.0009 J
11	1,2-Dichloroethane	mg/L	0.0004	0.001	0.0036	ND	0.0049	0.0042	0.0049
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0034	0.0036	0.0039	0.0031	0.0037
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0196	0.0232	0.0242	0.0238	0.0250
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	ND	0.0012	ND
17	Acetone	mg/L	6	0.100	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0158	0.0131	0.0131	0.0101	0.0134
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	BromodichloromethaneBromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	0.0081	0.0080	0.0075	0.0063	0.0081
27	Chloroethane	mg/L	3	0.010	0.0072 J	0.0036 J	0.0090 J	0.0053 J	0.0068 J
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	0.0028	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0754	0.251	0.234	0.157 J	0.194
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
32	DibromochloromethaneDibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND	0.0019	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	0.0068	0.0048	0.0008 J	0.0026	0.0005 J
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	0.0035	ND	0.0012	0.0015	ND
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0017	0.0037	0.0036	0.0019	ND
39	Toluene	mg/L	0.6	0.001	0.0050	0.0041	0.0008 J	0.0016	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	0.0012 J	ND	0.0012 J
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0114	0.0232	0.0231	0.0333 E	0.0316
44	Trichlorofluoromethane	mg/L	2	0.001	ND	0.0021	ND	0.0014	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0211	0.0286	0.0320	0.0232	0.0318
47	Xylenes	mg/L	0.5	0.005	0.200	0.234	0.1491	0.173 E	0.0944
48	Chromium	mg/L	0.01	0.010	ND	ND	0.0017 J	ND	ND
49	Lead	mg/L	0.015	0.010	ND	0.0006 J	0.0017 J	0.0007 J	ND
50	Nickel	mg/L	0.1	0.050	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

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	BromodichloromethaneBromodichloromethane	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	DibromochloromethaneDibromochloromethane	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	BromodichloromethaneBromodichloromethane	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	DibromochloromethaneDibromochloromethane	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	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0037 J	0.0035 J	0.0029 J	0.0028 J	0.0037 J
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	0.0012	0.0014	0.0018	0.0018	0.0017
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND	0.0030	0.0007 J	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	ND	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	BromodichloromethaneBromoform	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	3	0.010	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0035 J	0.0034 J	0.0033 J	0.0026 J	0.0030 J
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
32	DibromochloromethaneBromoform	mg/L	0.0004	0.003	ND	ND	ND	0.004	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	ND	ND	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0241	0.0221	0.0207	0.0197	0.0160
39	Toluene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0073	0.0067	0.0070	0.0057	0.0074
44	Trichlorofluoromethane	mg/L	2	0.001	0.0020	ND	0.0011	0.0010 J	0.0014
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND	ND	ND	ND
47	Xylenes	mg/L	0.5	0.005	ND	ND	0.0012 J	ND	ND
48	Chromium	mg/L	0.01	0.010	0.0044 J	0.0038 J	0.0047 J	0.0087 J	0.0046 J
49	Lead	mg/L	0.015	0.010	0.0003 J	0.0002 J	0.0003 J	0.0002 J	0.0005 J
50	Nickel	mg/L	0.1	0.050	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 particular method is a higher value than the groundwater standard for that parameter, it must be equal or less than the PQLs stated in the North Carolina Appendix II Monitoring and Appendix I Organic Constituents guidelines.

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

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

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

Historical Summary of Detections

MW-15

Monitoring Well: MW-15

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	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	0.007	ND	ND	ND	0.007	0.008	0.0062	ND	ND	ND	ND	ND	0.001	ND	0.0015	ND	ND	ND	0.0008 J	0.2	0.001	ND	.0008 J	0.0006 J	0.0006 J	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	0.197	0.225	0.235	0.447	0.126	0.125	0.189	0.299	0.526	0.431	0.368	0.560	0.001	0.469	0.438	0.661	0.559	0.528	0.488	0.006	0.005	0.367	0.337	0.332	0.434	ND	0.246
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	J	0.0038 J	0.0038 J	0.0039 J	0.003 J	0.007	0.005	.0024 J	.0026 J	0.0030 J	0.0024 J	0.0016 J	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	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	mg/L	0.00038	0.001			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	.0006 J	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0011	0.0010	0.0014	0.001	ND	0.0013	0.002	0.002	0.002	ND	0.0006	0.001	0.0011	0.0012	0.0015	0.0013	0.0010	ND
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	0.005	ND	ND	ND	ND	0.006	ND	ND	ND	0.001	ND	0.005	0.005	0.006	0.006	0.006	0.006	0.001	0.0047	0.0052	0.0045	0.0057	0.0044	0.0040
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	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	0.010	0.016	0.019	ND	0.003	0.003	0.006	0.013	0.023	0.016	0.014	0.021	0.001	0.019	0.019	0.019	0.020	0.019	0.018	0.001	0.001	0.0156	0.0151	0.0187	0.0152	0.0118	0.0088
20	Bromochloromethane	mg/L		0.005	ND	ND	0.080	ND	ND	ND	0.006	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003	ND	0.0039	ND	ND	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	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	0.006	ND	ND	ND	0.003	ND	0.005	0.005	0.006	0.006	0.005	0.05	0.003	0.0055	0.0047	0.0044	0.0048	0.0041	0.0035
27	Chloroethane	mg/L	2.80	0.005	0.007	ND	ND	ND	ND	ND	0.008	ND	0.006	ND	ND	ND	0.010	ND	J	ND	0.0024 J	0.0021 J	0.0022 J	3	0.010	.0017 J	.0023 J	0.0022 J	0.0019 J	0.0014 J	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	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)	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	0.228	0.361	0.325	0.493	0.094	0.055	0.139	0.302	0.617	0.452	0.401	0.588	0.005	0.572	0.534	0.704	ND	0.553	0.548	0.07	0.005	0.378	0.373	0.384	0.464	0.383	0.238
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	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	0.545	0.009	0.537	ND	0.199	0.233	0.671	0.960	1.090	0.757	0.419	0.500	0.001	0.335	ND	0.209	0.193	0.174	0.127	0.005	0.001	0.116	0.112	0.106	0.0824	0.153	0.0801
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	0.007	ND	0.006	ND	0.003	0.006	0.007	0.004	0.007	0.0075	0.0045	0.0041	0.001	ND	0.0053	0.006	0.007	0.007	0.004	0.0007	0.001	0.0035	0.0060	0.0053	0.0068	0.0060	0.0042
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.0003 J	0.0002 J	0.0003 J	0.0002 J	0.6	0.001	.0002 J	ND	ND	0.0002 J	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	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	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.054	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	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	0.088	0.084	0.150	0.127	0.034	0.029	0.063	0.108	0.202	0.135	0.113	0.177	0.001	0.146	0.186	0.162	0.168	0.174	0.145	0.003	0.001	0.13	0.126	0.134	0.110	0.104	0.0870
44	Trichlorofluoromethane	mg/L	2.1	0.005	0.039	ND	0.030	0.018	0.018	0.075	0.058	0.024	0.051	0.063	0.053	0.044	0.001	0.043	ND	ND	ND	0.00226 J	0.032	2	0.001	0.025	0.0233	0.0229	0.0165	0.0054	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	0.016	0.010	0.012	0.006	0.022	0.023	0.022	0.006	0.007	0.0117	0.0103	0.0104	0.001	ND	0.0091	0.009	0.010	0.008	0.011	0.00003	0.001	0.0127	0.0109	0.0151	0.0102	0.0122	ND
47	Xylenes	mg/L	0.53	0.005	0.027	0.019	0.062	0.063	0.010	0.007	0.017	0.036	0.070	0.047	0.049	0.053	0.003	ND	0.058	0.063	0.066	0.071	0.029	0.5	0.005	0.0566	0.0479	0.0453	0.0472	0.0380	0.0306
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	0.004 J	0.0016 J	ND	ND	0.01	0.010	ND	ND	0.0015 J	0.0012 J	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010	ND	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	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.050	J	ND	0.0039 J	0.0026 J	0.0031 J	ND	0.1	0.050	0.0064 J	.0053 J	0.0046 J	0.0047 J	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.

HISTORICAL DATA SUMMARY

Monitoring Well: MW-15

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.291	0.221	0.238	0.116 J	0.209
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.0015 J	0.0011 J	0.0013 J	0.001 J	0.0011 J
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	0.0007 J	0.0006 J	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0010	0.0010	0.0009 J	0.0008 J	0.0008 J
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0044	0.0037	0.0032	0.0035	0.0033
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	ND	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0122	0.0101	0.0098	0.0085	0.0092
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	0.0041	0.0035	0.0030 J	0.0027	0.0031
27	Chloroethane	mg/L	3	0.010	0.0017 J	ND	0.0013 J	0.0005 J	0.0009 J
28	Chloroform	mg/L	0.07	0.005	0.0003 J	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	0.0008 J	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.353	0.242	0.249	0.165	0.189
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND	ND	0.0056	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	0.0834	0.0450	0.0426	0.0355 E	0.0414
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	0.0005 J	0.0005 J
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0044	0.0040	0.0045	0.0043	0.0042
39	Toluene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	0.0015 J	ND	0.0013 J	0.0005 J	0.0008 J
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.101	0.0748	0.0875	0.0807 E	0.0738
44	Trichlorofluoromethane	mg/L	2	0.001	ND	0.0076	0.0077	ND	0.0066
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0166	0.0116	0.0118	0.0064	0.0078
47	Xylenes	mg/L	0.5	0.005	0.0386	0.0293	0.0232	0.0209	0.0211
48	Chromium	mg/L	0.01	0.010	0.0025 J	ND	0.0026 J	0.0023 J	0.0028 J
49	Lead	mg/L	0.015	0.010	0.0015 J	0.0007 J	0.0011 J	0.0009 J	0.0017 J
50	Nickel	mg/L	0.1	0.050	0.0056 J	0.0042 J	0.0031 J	0.0033 J	0.0062 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	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane	0.001	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	0.2	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	0.0002	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	0.0006	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	0.006	0.005	0.144	0.0918	0.0994	0.112	0.103	0.0817	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	.002 J	.0018 J	0.0021 J	0.0018 J	0.0016	ND
7	1,2,3-Trichloropropane	0.000005	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	0.00004	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	0.00002	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	0.02	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	0.0004	0.001	ND	ND	ND	ND	ND	ND	.0005 J	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	0.0006	0.001	J	J	0.0007 J	0.0007 J	0.0007 J	0.0006 J	.0006 J	.0007 J	0.0007 J	0.0008 J	0.0008 J	ND
13	1,4-Dichlorobenzene	0.006	0.001	J	ND	0.0004 J	0.0005 J	0.0004 J	0.0004 J	.0006 J	.0005 J	0.0005 J	0.0017	0.0005 J	ND
14	2-Butanone (Methyl ethyl ketone)	4	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	0.04	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone		0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	6	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile		0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	0.001	0.001	0.0032	0.0025	0.0022	0.0018	0.0016	0.0014	0.0016	0.0018	0.0020	0.0024	0.0026	0.0016
20	Bromochloromethane		0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	0.0006	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	0.004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	0.01	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	0.7	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	0.0003	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	0.05	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	3	0.010	0.0112	0.0116	0.0101	0.0098 J	0.0071 J	0.0074 J	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	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	0.003	0.001	ND	ND	ND	ND	ND	ND	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	0.0183	ND	0.0192	0.0178	0.0155	0.0116
31	cis-1,3-Dichloropropene	0.0004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	0.0004	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	0.07	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	0.6	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)		0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	0.005	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Styrene	0.07	0.001	ND	ND	ND	ND	ND	ND	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	.0004 J	0.0011	0.0017	0.0013	0.0015	ND
39	Toluene	0.6	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	0.10	0.005	ND	ND	ND	ND	ND	ND	ND	.0005 J	ND	0.0007 J	ND	ND
41	trans-1,3-Dichloropropene	0.0004	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene		0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	0.003	0.001	0.0504	0.0321	0.0356	0.036	0.0371	0.0223	0.0279	0.0188	0.0246	0.0202	0.0182	0.0094
44	Trichlorofluoromethane	2	0.001	ND	ND	ND	ND	ND	0.0099	0.0125	0.0109	0.0112	0.0105	0.0045	ND
45	Vinyl acetate	0.088	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	0.00003	0.001	0.0073	0.0095	0.0073	0.0097	0.0069	0.0093	0.0095	0.0111	0.0096	0.0107	0.0078	ND
47	Xylenes	0.5	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0007 J	ND	ND
48	Chromium	0.01	0.010	J	J	0.0087 J	0.0205	0.0015 J	0.0116	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	0.0004 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	0.0118 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.

Monitoring Well: MW-16

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.108	0.114	0.155	0.135 E	0.171
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.0010 J	ND	0.0010 J	0.0009 J	0.0010 J
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0006 J	0.0007 J	0.0009 J	0.0006 J	0.0014
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0005 J	ND	0.0010 J	0.0008 J	0.0010 J
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	ND	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0019	0.0021	0.0027	0.0026	0.0037
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	3	0.010	0.0140	0.0104	0.0161	0.0129	0.0310
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	0.0013	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0122	0.0097	0.0149	0.0144	0.0244
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	ND	0.0008 J	0.0006 J	0.0007 J
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0008 J	ND	0.0010	0.0008 J	0.0012
39	Toluene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	0.0010 J	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0116	0.0087	0.0118	0.0083	0.0134
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND	ND	ND	0.0067
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0067	0.0060	0.0086	0.0058	0.0103
47	Xylenes	mg/L	0.5	0.005	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.01	0.010	0.0193	0.0222	0.0443	0.0560	0.0094 J
49	Lead	mg/L	0.015	0.010	0.0018 J	0.0017 J	0.0015 J	0.0020 J	0.0004 J
50	Nickel	mg/L	0.1	0.050	0.0190 J	0.0184 J	0.0222 J	0.0229 J	0.0131 J

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

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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	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	0.025	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	0.007	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	0.0000050	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	ND	ND	ND	ND	ND	ND	0.0006	0.001	ND	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	0.0014	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)	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	0.0002 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	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	ND	ND	ND	ND	0.7	0.100	ND	.0020 J	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	J	ND	ND	ND	ND	0.003	0.001	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	0.07	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	0.00019	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	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	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	J	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	0.023	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	2.1	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	0.000015	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	0.53	0.003	ND	ND	ND	ND	ND	ND	0.5	0.005	ND	ND	ND	ND	ND	ND
48	Chromium	0.05	0.010	ND	ND	0.002 J	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND
49	Lead	0.015	0.010	ND	ND	ND	0.0003 J	ND	ND	0.015	0.010	ND	ND	ND	ND	ND	ND
50	Nickel	0.1	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	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0385 J	0.0377 J	0.0466	0.0363	0.0347
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.0026 J	0.0022 J	0.0025 J	0.0016 J	0.0027 J
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND	ND	ND	0.0007 J
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	ND	0.0139 J
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	ND	ND	0.0081 J
17	Acetone	mg/L	6	0.100	ND	ND	ND	ND	0.0259 J
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0003 J	ND	0.0004 J	ND	ND
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	3	0.010	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0397 J	0.0389 J	0.0461	0.0375	0.0276
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	ND	ND	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0015	0.0019	0.0018	0.0019	0.0025
39	Toluene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	0.0025 J	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0177	0.0176	0.0194	0.0169	0.0224
44	Trichlorofluoromethane	mg/L	2	0.001	0.0129	0.0096	0.0101	0.0085	0.0123
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0053	0.0040	0.0055	0.0034	0.0062
47	Xylenes	mg/L	0.5	0.005	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.01	0.010	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.050	0.0080 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

MW-18

Monitoring Well: MW-18

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	16 Mar-2001	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006	SWSL	28 Mar-2007	29 Sep-2007	30 Mar-2008	31 Sep-2008	32 Mar-2009	33 Sep-2009	GW Std.	SWSL	34 Mar-2010	35 Sep-2010	36 Mar-2011	37 Sep-2011	38 Mar-2012	39 Sep-2012
1	1,1,1,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.001	0.005	ND			ND		
2	1,1,1-Trichloroethane	mg/L	0.2	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.2	0.001	ND			ND		
3	1,1,2,2-Tetrachloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0002	0.003	ND			ND		
4	1,1,2-Trichloroethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.0006	0.001	ND			ND		
5	1,1-Dichloroethane	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.006	0.005	ND			ND		
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.007	0.005	ND			ND		
7	1,2,3-Trichloropropane	mg/L	0.0000050	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.000005	0.001	ND			ND		
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.000025	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00004	0.013	ND			ND		
9	1,2-Dibromoethane (EDB)	mg/L	0.0000004	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00002	0.001	ND			ND		
10	1,2-Dichlorobenzene	mg/L	0.024	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.02	0.005	ND			ND		
11	1,2-Dichloroethane	mg/L	0.00038	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND		
12	1,2-Dichloropropane	mg/L	0.00051	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0006	0.001	ND			ND		
13	1,4-Dichlorobenzene	mg/L	0.0014	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.006	0.001	ND			ND		
14	2-Butanone (Methyl ethyl ketone)	mg/L	4.20	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			4	0.100	ND			ND		
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			ND			0.04	0.050	ND			ND		
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND				0.100	ND			ND		
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			6	0.100	ND			ND		
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.200	ND			ND				0.200	ND			ND		
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.001	0.001	ND			ND		
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND				0.003	ND			ND		
21	Bromodichloromethane	mg/L	0.00056	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0006	0.001	ND			ND		
22	Bromoform	mg/L	0.00443	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.004	0.003	ND			ND		
23	Bromomethane (Methyl bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND			0.01	0.010	ND			ND		
24	Carbon disulfide	mg/L	0.7	0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND			0.7	0.100	ND			ND		
25	Carbon tetrachloride	mg/L	0.000269	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0003	0.001	ND			ND		
26	Chlorobenzene	mg/L	0.05	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.05	0.003	ND			ND		
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND			3	0.010	ND			ND		
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.07	0.005	ND			ND		
29	Chloromethane (Methyl chloride)	mg/L	0.0026	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.003	0.001	ND			ND		
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.07	0.005	ND			ND		
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND		
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.003	ND			ND		
33	Dibromomethane (Methylene bromide)	mg/L		0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.07	0.001	ND			ND		
34	Ethylbenzene	mg/L	0.550	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.6	0.001	ND			ND		
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			ND				0.010	ND			ND		
36	Methylene chloride	mg/L	0.0046	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.005	0.001	ND			ND		
37	Styrene	mg/L	0.1	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.07	0.001	ND			ND		
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0007	0.001	ND			ND		
39	Toluene	mg/L	1.0	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.6	0.001	ND			ND		
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.005	ND			ND			0.10	0.005	ND			ND		
41	trans-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.0004	0.001	ND			ND		
42	trans-1,4-Dichloro-2-butene	mg/L		0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.100	ND			ND				0.100	ND			ND		
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.003	0.001	ND			ND		
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			2	0.001	ND			ND		
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			ND			0.088	0.050	ND			ND		
46	Vinyl chloride	mg/L	0.000015	0.001	ND	ND	ND	ND	ND	ND	ND			ND			0.001	ND			ND			0.00003	0.001	ND			ND		
47	Xylenes	mg/L	0.53	0.005	ND	ND	ND	ND	ND	ND	ND			ND			0.003	ND			ND			0.5	0.005	ND			ND		
48	Chromium	mg/L	0.05	0.010	ND	ND	ND	ND	ND	ND	ND			ND			0.010	J			0.0028 J			0.01	0.010	0.0020 J			0.0020 J		
49	Lead	mg/L	0.015	0.010	ND	ND	ND	ND	ND	ND	ND			ND			0.010	ND			0.0002 J			0.015	0.010	ND			ND		
50	Nickel	mg/L	0.1	0.050	ND	ND	ND	ND	ND	ND	ND			ND			0.050	ND			ND			0.1	0.050	ND			ND		

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

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

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

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

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

HISTORICAL DATA SUMMARY

Monitoring Well: MW-18

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	40 Mar-2013	41 Sep-2013	42 Mar-2014	43 Sep-2014	44 Mar-2015
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	BromodichloromethaneBromodichloromethane	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	ND			ND	
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND			ND	
32	DibromochloromethaneDibromochloromethane	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	0.0019 J			0.0021 J	
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-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	ND	0.007	0.015	0.007	0.0146	ND	ND	0.004	0.0053
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	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	0.0014	ND	0.0011	ND	0.0016
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.712	0.386 J	0.217	0.651	0.406
6	1,1-Dichloroethene	mg/L	0.007	0.005	0.0110	0.0065	0.0133	0.0068	0.0156
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	0.0005 J	ND	0.0005 J	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	0.0073	0.0072	0.0038	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0033	0.0034	0.0017	0.0041	0.0031
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	ND	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0160	0.0164	0.0093	0.0160	0.0146
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	0.0013 J	0.0014 J	0.0006 J	0.0014 J	0.0011 J
27	Chloroethane	mg/L	3	0.010	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	0.0004 J	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	0.0013	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	1.75	0.966	0.524	1.96	0.811
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	0.0850 J	0.0662	0.0145	0.0357 E	0.0229
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0605	0.0605	0.0325	0.106	0.0614
39	Toluene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	0.0109	ND	0.0041 J	0.0006 J	0.0017 J
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	1.36	0.708	0.561	1.40	0.855
44	Trichlorofluoromethane	mg/L	2	0.001	0.0200	0.0179	0.0201	0.0212	0.0240
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0064	0.0055	0.0046	0.0008 J	0.0076
47	Xylenes	mg/L	0.5	0.005	0.0125	0.0194	0.0030	0.0126	0.0100
48	Chromium	mg/L	0.01	0.010	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	0.0002 J	0.0002 J	0.0002 J	0.0003 J	ND
50	Nickel	mg/L	0.1	0.050	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

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

	Parameter	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		0.001	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	ND	ND	ND	ND	ND	ND	0.006	0.005	ND	ND	ND	ND	ND	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	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	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
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	ND	ND	0.0018 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	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND	ND	ND
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	ND	ND	ND	ND	0.0004 J	ND	0.003	0.001	ND	ND	ND	ND	ND	ND
44	Trichlorofluoromethane		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		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	ND	ND	ND
48	Chromium		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		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		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	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	ND	ND	ND	ND	ND
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	ND	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	3	0.010	ND	ND	ND	ND	ND
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0002 J	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	ND	ND	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND
39	Toluene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0003 J	0.0005 J	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND	0.0003 J	ND	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND	ND	ND	ND
47	Xylenes	mg/L	0.5	0.005	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.01	0.010	0.0057 J	0.0021 J	0.0022 J	0.0053 J	0.0019 J
49	Lead	mg/L	0.015	0.010	ND	0.0007 J	0.0004 J	0.0014 J	ND
50	Nickel	mg/L	0.1	0.050	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

MW-23

Monitoring Well: MW-23

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	1 Sep-2004	2 Mar-2005	3 Sep-2005	4 Mar-2006	5 Sep-2006	SWSL	6 Mar-2007	7 Sep-2007	8 Mar-2008	9 Sep-2008	10 Mar-2009	11 Sep-2009	GW Std.	SWSL
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
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
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
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
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
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
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
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
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
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
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
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
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
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
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200
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
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003
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
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
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
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
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
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
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	3	0.010
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
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
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
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
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003
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
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
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010
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
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
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
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
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
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
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
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
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	2	0.001
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050
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
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
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
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
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

	Parameter	12 Mar-2010	13 Sep-2010	14 Mar-2011	15 Sep-2011	16 Mar-2012	17 Sep-2012	18 Mar-2013	19 Sep-2013	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
44	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
45	Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
47	Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Chromium	ND	ND	0.0015 J	ND	ND	ND	ND	ND	0.0096 J	0.0164 J	0.0020 J
49	Lead	0.0009 J	.0030 J	0.0017 J	0.0005 J	0.0008 J	0.0013 J	0.0009 J	0.0007 J	0.0061 J	0.0100 J	0.0015 J
50	Nickel	ND	ND	ND	0.0026 J	ND	ND	ND	0.0024 J	0.0043 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 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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
15	2-Hexanone	mg/L		0.050	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.04	0.050
16	4-Methyl-2-pentanone	mg/L		0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND		0.100
17	Acetone	mg/L	0.7	0.050	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	6	0.100
18	Acrylonitrile	mg/L		0.025	ND	ND	ND	ND	ND	0.200	ND	ND	ND	ND	ND	ND		0.200
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
20	Bromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND		0.003
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
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
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
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
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
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
27	Chloroethane	mg/L	2.80	0.005	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND	3	0.010
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
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
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
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
32	Dibromochloromethane	mg/L		0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.003
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
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
35	Iodomethane (Methyl iodide)	mg/L		0.025	ND	ND	ND	ND	ND	0.010	ND	ND	ND	ND	ND	ND		0.010
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
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
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
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
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
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
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
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
44	Trichlorofluoromethane	mg/L	2.1	0.005	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	2	0.001
45	Vinyl acetate	mg/L		0.025	ND	ND	ND	ND	ND	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050
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
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
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
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
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

	Parameter	12 Mar-2010	13 Sep-2010	14 Mar-2011	15 Sep-2011	16 Mar-2012	17 Sep-2012	18 Mar-2013	19 Sep-2013	20 Mar-2014	21 Sep-2014	22 Mar-2015
1	1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6	1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
17	Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
18	Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19	Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
21	Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
22	Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
24	Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
26	Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
27	Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
28	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
32	Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
34	Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
36	Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
37	Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
38	Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
39	Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
44	Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
45	Vinyl acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
46	Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
47	Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
48	Chromium	0.0019 J	.0012 J	0.0038 J	0.0020 J	0.0035 J	ND	0.0046 J	0.0013 J	0.0348	0.0704	0.0302 J
49	Lead	0.0012 J	.0005 J	0.0030 J	0.0006 J	0.0014 J	0.0004 J	0.0012 J	0.0005 J	0.0077 J	0.0122 J	0.0069 J
50	Nickel	0.0049 J	.0036 J	0.0050 J	0.0032 J	0.0040 J	0.0020 J	ND	0.0053 J	0.0127 J	0.0225 J	0.0164 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	20 Mar-2014	21 Sep-2014	22 Mar-2015
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0045 J	0.0028 J	0.0031 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	0.0011 J	0.0005 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	ND	ND	ND

NOTES

GW Std. - North Carolina Groundwater Standard

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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	BromodichloromethaneBromodichloromethane	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	DibromochloromethaneDibromochloromethane	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	BromodichloromethaneBromodichloromethane	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	DibromochloromethaneDibromochloromethane	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	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0444 J	0.0292 J	0.0230	0.0220	0.0225
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	0.0012	0.0011	0.0011	0.0009 J	0.0008 J
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	ND	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND	0.0103 J	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	0.0043	0.0029	0.0031	0.0026	0.0024
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	BromodichloromethaneBromoform	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	0.0024 J	0.0018 J	0.0015 J	0.0014 J	0.0012 J
27	Chloroethane	mg/L	3	0.010	0.0117	0.0070 J	0.0107	0.0056 J	0.0097 J
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0368 J	0.0266 J	0.0214	0.0202	0.0151
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
32	DibromochloromethaneDibromomethane	mg/L	0.0004	0.003	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND	ND	0.0005 J	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	0.0011	ND	ND	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0048	0.0046	0.0052	0.0041	0.0039
39	Toluene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	0.0103	0.0076	0.0077	0.0060	0.0061
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND	ND	ND	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	0.0113	0.0091	0.0152	ND	0.0124
47	Xylenes	mg/L	0.5	0.005	0.0036	0.0027 J	0.0019 J	0.0002 J	0.0006 J
48	Chromium	mg/L	0.01	0.010	ND	ND	0.0040 J	ND	ND
49	Lead	mg/L	0.015	0.010	0.0007 J	0.0009 J	0.0055 J	0.0005 J	0.0006 J
50	Nickel	mg/L	0.1	0.050	ND	ND	0.0021 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 Summary of Detections

OW-3

Monitoring Well: OW-3

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

#	Parameter	Units	GW Std.	SWSL	16 Mar-2010	17 Sep-2001	18 Mar-2002	19 Sep-2002	20 Mar-2003	21 Sep-2003	22 Mar-2004	23 Sep-2004	24 Mar-2005	25 Sep-2005	26 Mar-2006	27 Sep-2006
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	42 Mar-2014	43 Sep-2014	44 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	NS
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	NS
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	NS
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	NS
5	1,1-Dichloroethane	mg/L	0.006	0.005	ND	ND	ND	NS
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	NS
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	NS
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	NS
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	NS
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND	NS
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND	ND	NS
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND	ND	NS
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND	ND	NS
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND	ND	NS
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	NS
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	ND	NS
17	Acetone	mg/L	6	0.100	0.0083 J	0.0200 J	ND	NS
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	NS
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	NS
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	NS
21	BromodichloromethaneBromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND	NS
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	NS
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	NS
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	NS
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	NS
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND	ND	NS
27	Chloroethane	mg/L	3	0.010	ND	ND	ND	NS
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	NS
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	NS
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	ND	ND	ND	NS
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	NS
32	DibromochloromethaneDibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND	NS
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	NS
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND	ND	NS
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	NS
36	Methylene chloride	mg/L	0.005	0.001	ND	ND	ND	NS
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	NS
38	Tetrachloroethene	mg/L	0.0007	0.001	0.0008 J	0.0006 J	ND	NS
39	Toluene	mg/L	0.6	0.001	ND	ND	ND	NS
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	NS
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	NS
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	NS
43	Trichloroethene	mg/L	0.003	0.001	ND	ND	ND	NS
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND	ND	NS
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	NS
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND	ND	NS
47	Xylenes	mg/L	0.5	0.005	ND	ND	ND	NS
48	Chromium	mg/L	0.01	0.010	ND	0.0026 J	ND	NS
49	Lead	mg/L	0.015	0.010	0.0027 J	0.0050 J	ND	NS
50	Nickel	mg/L	0.1	0.050	0.0037 J	0.0022 J	ND	NS

NOTES

GW Std. - North Carolina Groundwater Standard

SWSL - Solid Waste Section Limit

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

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

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

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

Historical Summary of Detections

CR-1

Monitoring Well: CR-1

Newton Landfill - Permit: #18-01

HISTORICAL DATA SUMMARY

	Parameter	Units	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	23 Mar-2013	24 Sep-2013	25 Mar-2014	26 Sep-2014	27 Mar-2015
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	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	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	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	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	0.001	0.0091	ND	0.012	0.0069	0.0126	0.004 J	0.006	0.005	0.0076	0.0022 J	0.0044	0.0035 J	ND	ND	0.0061	0.0028 J	0.0053	0.0026 J	0.0046 J
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.007	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.0000060	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	ND	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.0000025	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	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	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	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	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	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	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	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	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	ND	ND	ND	ND	ND	ND
17	Acetone	mg/L	0.7	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.100	ND	ND	ND	ND	ND	ND	5	0.100	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	0.200	ND	ND	ND	ND	ND	ND		0.200	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	0.001	ND	ND	0.0002 J	ND	ND	ND	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	0.003	ND	ND	ND	ND	ND	ND		0.003	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	0.001	ND	ND	ND	ND	ND	ND	0.00006	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	0.003	ND	ND	ND	ND	ND	ND	0.004	0.003	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	0.010	ND	ND	ND	ND	ND	ND	0.01	0.010	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	0.100	ND	ND	ND	ND	ND	ND	0.7	0.100	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	0.001	ND	ND	ND	ND	ND	ND	0.0003	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	0.003	ND	ND	ND	ND	ND	ND	0.05	0.003	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	0.010	J	ND	0.0026 J	0.0023 J	0.0031 J	0.0016 J	3	0.010	0.0028 J	0.014 J	0.0038 J	0.0020 J	0.0032	ND	0.0049 J	0.0027 J	0.0041 J	0.0032 J	0.0045 J
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	0.07	0.005	ND	ND	ND	ND	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	0.001	ND	ND	0.002	ND	ND	ND	0.003	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	0.005	J	J	0.0016 J	0.0011 J	0.0018 J	0.0006 J	0.07	0.005	0.0009 J	0.0004 J	0.0013 J	0.0005 J	0.0007 J	ND	0.0004 J	ND	0.0008 J	ND	0.0006 J
31	cis-1,3-Dichloropropene	mg/L	0.00019	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	ND	ND	ND	ND	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	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	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	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	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	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	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	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	J	ND	0.0005 J	0.0002 J	0.0006 J	ND	0.6	0.001	0.004 J	ND	0.0005 J	ND	ND	ND	0.0004 J	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	ND	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	0.001	ND	ND	ND	ND	ND	ND	0.0004	0.001	ND	ND	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	0.100	ND	ND	ND	ND	ND	ND		0.100	ND	ND	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	0.001	J	ND	0.0009 J	0.0005 J	0.0012 J	0.0003 J	0.003	0.001	0.0007 J	ND	0.0007 J	ND	ND	ND	0.0004 J	ND	0.0004 J	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	0.0009 J	0.0004 J	2	0.001	0.0004 J	ND	0.0004 J	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	0.050	ND	ND	ND	ND	ND	ND	0.088	0.050	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	0.001	ND	ND	ND	ND	0.0007 J	0.00002 J	0.00003	0.001	0.0005 J	ND	0.0004 J	ND	ND	ND	0.0004 J	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	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	0.0023 J	ND	ND	ND	0.01	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0110	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	ND	ND	ND	ND	ND	ND
50	Nickel	mg/L	0.1	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND	0.0049 J	ND	ND	ND	0.1	0.050	ND	ND	ND	ND	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 - 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

SW-2

Monitoring Well: SW-2

HISTORICAL DATA SUMMARY

Newton Landfill - Permit: #18-01

	Parameter	Units	GW Std.	SWSL	1 Mar-2002	2 Sep-2002	3 Mar-2003	4 Sep-2003	5 Mar-2004	6 Sep-2004	7 Mar-2005	8 Sep-2005	9 Mar-2006	10 Sep-2006
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	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
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	0.050	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		0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.0028	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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	0.050	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
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	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	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	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	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
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	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	ND	ND	ND	ND	0.001	ND	3	0.010	.001 J	ND	0.0013 J	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	0.0014	ND	ND	ND	0.003	0.001	ND	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	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	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	ND	ND	ND	ND	ND	0.0007	0.001	ND	ND	ND	ND	ND	ND
39	Toluene	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	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	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	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	0.001	ND	ND	ND	ND	0.0004 J	ND	2	0.001	ND	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
46	Vinyl chloride	0.001	ND	ND	ND	ND	0.0003 J	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	ND	ND	ND
48	Chromium	0.010	ND	ND	0.0021 J	ND	ND	ND	0.01	0.010	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
50	Nickel	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	25 Mar-2014	26 Sep-2014	27 Mar-2015
1	1,1,1,2-Tetrachloroethane	mg/L	0.001	0.005	ND	ND	ND	ND	ND
2	1,1,1-Trichloroethane	mg/L	0.2	0.001	ND	ND	ND	ND	ND
3	1,1,2,2-Tetrachloroethane	mg/L	0.0002	0.003	ND	ND	ND	ND	ND
4	1,1,2-Trichloroethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
5	1,1-Dichloroethane	mg/L	0.006	0.005	0.0021 J	ND	0.0013 J	0.0010 J	0.0019 J
6	1,1-Dichloroethene	mg/L	0.007	0.005	ND	ND	ND	ND	ND
7	1,2,3-Trichloropropane	mg/L	0.000005	0.001	ND	ND	ND	ND	ND
8	1,2-Dibromo-3-Chloropropane (DBCP)	mg/L	0.00004	0.013	ND	ND	ND	ND	ND
9	1,2-Dibromoethane (EDB)	mg/L	0.00002	0.001	ND	ND	ND	ND	ND
10	1,2-Dichlorobenzene	mg/L	0.02	0.005	ND	ND	ND	ND	ND
11	1,2-Dichloroethane	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
12	1,2-Dichloropropane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
13	1,4-Dichlorobenzene	mg/L	0.006	0.001	ND	ND	ND	ND	ND
14	2-Butanone (Methyl ethyl ketone)	mg/L	4	0.100	ND	ND	ND	ND	ND
15	2-Hexanone	mg/L	0.04	0.050	ND	ND	ND	ND	ND
16	4-Methyl-2-pentanone	mg/L		0.100	ND	ND	ND	ND	ND
17	Acetone	mg/L	6	0.100	ND	ND	ND	ND	ND
18	Acrylonitrile	mg/L		0.200	ND	ND	ND	ND	ND
19	Benzene	mg/L	0.001	0.001	ND	ND	ND	ND	ND
20	Bromochloromethane	mg/L		0.003	ND	ND	ND	ND	ND
21	Bromodichloromethane	mg/L	0.0006	0.001	ND	ND	ND	ND	ND
22	Bromoform	mg/L	0.004	0.003	ND	ND	ND	ND	ND
23	Bromomethane (Methyl bromide)	mg/L	0.01	0.010	ND	ND	ND	ND	ND
24	Carbon disulfide	mg/L	0.7	0.100	ND	ND	ND	ND	ND
25	Carbon tetrachloride	mg/L	0.0003	0.001	ND	ND	ND	ND	ND
26	Chlorobenzene	mg/L	0.05	0.003	ND	ND	ND	ND	ND
27	Chloroethane	mg/L	3	0.010	0.0013 J	ND	0.0013 J	ND	0.0013 J
28	Chloroform	mg/L	0.07	0.005	ND	ND	ND	ND	ND
29	Chloromethane (Methyl chloride)	mg/L	0.003	0.001	ND	ND	ND	ND	ND
30	cis-1,2-Dichloroethene	mg/L	0.07	0.005	0.0004 J	ND	ND	ND	ND
31	cis-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
32	Dibromochloromethane	mg/L	0.0004	0.003	ND	ND	ND	ND	ND
33	Dibromomethane (Methylene bromide)	mg/L	0.07	0.001	ND	ND	ND	ND	ND
34	Ethylbenzene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
35	Iodomethane (Methyl iodide)	mg/L		0.010	ND	ND	ND	ND	ND
36	Methylene chloride	mg/L	0.005	0.001	ND	ND	ND	ND	ND
37	Styrene	mg/L	0.07	0.001	ND	ND	ND	ND	ND
38	Tetrachloroethene	mg/L	0.0007	0.001	ND	ND	ND	ND	ND
39	Toluene	mg/L	0.6	0.001	ND	ND	ND	ND	ND
40	trans-1,2-Dichloroethene	mg/L	0.10	0.005	ND	ND	ND	ND	ND
41	trans-1,3-Dichloropropene	mg/L	0.0004	0.001	ND	ND	ND	ND	ND
42	trans-1,4-Dichloro-2-butene	mg/L		0.100	ND	ND	ND	ND	ND
43	Trichloroethene	mg/L	0.003	0.001	ND	ND	ND	ND	ND
44	Trichlorofluoromethane	mg/L	2	0.001	ND	ND	ND	ND	ND
45	Vinyl acetate	mg/L	0.088	0.050	ND	ND	ND	ND	ND
46	Vinyl chloride	mg/L	0.00003	0.001	ND	ND	ND	ND	ND
47	Xylenes	mg/L	0.5	0.005	ND	ND	ND	ND	ND
48	Chromium	mg/L	0.01	0.010	ND	ND	ND	ND	ND
49	Lead	mg/L	0.015	0.010	ND	ND	0.0002 J	ND	ND
50	Nickel	mg/L	0.1	0.050	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.