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):

Pilot Environmental, Inc. and Modulus, PLLC

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

Name: Toby S. Benfield Phone: 336-310-4527 ext 106

E-mail: TBenfield@PilotEnviro.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Davidson County Phase I Lined Landfill	1242 Old Highway 29, Thomasville, North Carolina, 27360	29-06	.1600	March 21, 2016

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.

Mr. Aric V. Geda, P.E. — Facility Representative Name (Print)

Principal Engineer — Title

919-800-9093 — (Area Code) Telephone Number

Signature

05/18/2016 — Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA PROFESSIONAL SEAL 035138 ENGINEER ARIC V. GEDA 05/18/2016

216 Graham Road, Graham NC 27253

Facility Representative Address

P-1176

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

Revised 6/2009

MARCH 2016 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

DAVIDSON COUNTY PHASE I LINED LANDFILL
NORTH CAROLINA SOLIDWASTE PERMIT NUMER 29-06

PREPARED FOR:
DAVIDSON COUNTY INTEGRATED SOLID WASTE
1242 OLD HIGHWAY 29
THOMASVILLE, NORTH CAROLINA 27360-0024

PREPARED BY:
PILOT ENVIRONMENTAL, INC
743 PARKLAWN COURT
KERNERSVILLE, NORTH CAROLINA 27285

MAY 18, 2016
PEI PROJECT NO. 1760

PILOT ENVIRONMENTAL INC

May 18, 2016

Mr. Steven Sink
Davidson County Integrated Solid Waste
1242 Old Highway 29
Thomasville, NC 27360-0024

Reference: March 2016 Semi Annual Groundwater Monitoring Report
Davidson County Phase I Lined Landfill
Lexington, North Carolina
North Carolina Solid Waste Permit Number 29-06
PEI Project 1760

Dear Mr. Sink:

Pilot Environmental, Inc. (PEI) is pleased to submit the 2016 Semi-Annual Groundwater Monitoring report for the above referenced site. Included in this report is a description of the field activities, the results obtained and our conclusions.

We appreciate the opportunity to provide our services to you. If you have any questions regarding our assessment of the subject site or our conclusions, please contact us at 336.310.4527.

Sincerely,

Toby S. Benfield
Project Manager

Aric V. Geda, P.E.
Principal Engineer
NC Lic[redacted]

NORTH CAROLINA PROFESSIONAL SEAL 035138 ENGINEER ARIC V. GEDA 5/18/2016

Davidson County Phase I Lined Landfill
NC Solid Waste Permit No 29-06
March 2016 Groundwater Monitoring Report

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1.0 INTRODUCTION

Pilot Environmental, Inc. (PEI) was contracted by Davidson County to conduct semi-annual groundwater monitoring at the Davidson County Phase I Lined Landfill, permit number 29-06 as required by 15A NCAC 13B .1600. Sampling was conducted on March 21, 2016. This report summarizes the sampling procedures, field and laboratory results and groundwater characterization as required by North Carolina Solid Waste Regulations. Drawings, summary tables and laboratory analytical reports are included.

2.0 SITE GEOLOGY

The Davidson County Phase I Lined Landfill facility is located in the Piedmont Physiographic Province of North Carolina. The Piedmont Physiographic Province generally consists of hills and ridges which are dissected by a system of swales and streams. The Piedmont Physiographic Province is predominantly underlain by metamorphic rock (formed by heat, pressure and/or chemical action) and igneous rock (formed directly from molten material). The topography and relief of the Piedmont Physiographic Province has developed from differential weathering of the igneous and metamorphic rock. Ridges and hills have been developed in areas of less weathered rock. Because of the continued chemical and physical weathering, rock in the Piedmont Physiographic Province is generally covered with a mantle of soil that has weathered in place from the parent bedrock. These soils vary in thickness and are referred to as residuum or residual soils. The residuum is typically finer grained and has higher clay content near the surface because of the advanced weathering. Similarly, the soils typically become coarser grained with increasing depth because of decreased weathering. As the weathering decreases, the residual soils generally retain the overall appearance, texture and foliations of the parent rock.

According to the Geologic Map of North Carolina (USGS 1985), the site lies within the Carolina Slate Belt in an area of predominantly volcanic and sedimentary rocks of Late Proterozoic to Cambrian age that have been metamorphosed and intruded by numerous igneous plutons. The boundary zone between the Carolina Slate Belt and the adjacent Charlotte Belt is known as the Gold Hill/Silver Hill shear zone. The site and surrounding property appear to be underlain by volcanic rocks from the Flat Swamp Member of the CID Formation and metavolcanic rocks of the Battleground Formation. The encountered lithology includes sand, silts, partially weathered rock and hard rock (granite).

3.0 SAMPLING LOCATIONS

The groundwater monitoring network for the Davidson County Phase I Lined Landfill includes thirteen monitoring wells (MW-1S, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7S, MW-7D, MW-8, MW-9A, MW-10, MW-11 and MW-12), two surface water samples (SW-1 and SW-2) and one leachate location (leachate). The upgradient well for the Phase I Lined Landfill is MW-1S. A trip blank was submitted for quality control purposes. Sample locations are shown on Drawing 1. Available monitoring well logs are included in Appendix A.

4.0 SAMPLING PROCEDURES

Sampling procedures followed the protocols outlined in the Water Quality Monitoring Plan and the North Carolina Department of Environmental Quality (NCDEQ) Division of Waste Management Water Quality Monitoring Guidance Document for Solid Waste Facilities.

Prior to sampling, PEI personnel measured the depth to groundwater in each well. Following measurement of groundwater depth, each well was purged by removing three to five well volumes or until dry twice. Groundwater elevations are provided in Table 1.

Laboratory prepared containers were provided by Research and Analytical Laboratories, Inc. in Kernersville, North Carolina (North Carolina Laboratory Certification Number 34). After being filled, the sample containers were appropriately labeled, placed into a cooler containing ice to maintain temperature control and transported to the laboratory facility within the specified hold time for each analysis.

Sampling wells and surface water sample locations were inspected and observed to be in good condition and free of obstruction at the time of sampling.

5.0 RESULTS

5.1 FIELD RESULTS

Temperature, pH, specific conductance and turbidity were measured in the field at the time of sampling. The field parameter results are summarized in Table 2.

5.2 LABORATORY ANALYSIS

Samples were transported to R&A Laboratories where they were analyzed for metals using EPA Method 200.7 and Volatile Organic Compounds (VOCs) using EPA Method 8260B. The leachate sample was also sampled for BOD, COD, nitrate nitrogen, total phosphorus and sulfate via NCDEQ DWM Solid Waste Section (SWS) approved methods.

Analytical results were compared to the NCDEQ DWM SWS Quantitation Limits (SWSLs), 15A NCAC 2L.0200 Groundwater Quality Standards (2L Standards), SWS established Groundwater Protection Standards (GWP) and the Federal Maximum Contaminant Limits (MCLs). Analytical results of surface water samples were compared with the NCAC 2B Standard for Class C waters (2B Standards)

Most constituents were reported below the method detection limit (MDL) or at non-quantifiable values (J-value) defined by the laboratory as between the MDL and the SWL.

5.2.1 Inorganic Constituents

Laboratory analysis detected several low solubility metal analytes at concentrations above their respective 2L Standards, GWP Standards or SWSLs in monitoring wells MW-2, MW-3 and MW-8. Field parameters of these monitoring wells indicated high turbidity at the time of sampling. Based on elevated turbidity in the samples noted at the time of collection, the elevated concentrations are attributed to be false positives caused by sediment reacting with preservative in the sample container.

Laboratory analysis detected chromium at a concentration exceeding its respective 2L Standard and SWSL in MW-9A. A summary of laboratory analytical results is provided in Table 3.

5.2.2 Organic Constituents

Laboratory analysis did not detect VOCs at concentrations above the method detection limits. A summary of laboratory analytical results is provided in Table 3.

5.2.3 Surface Water

Laboratory analysis of surface water samples did not detect constituents at concentrations above the 2B Standards. A summary of laboratory analytical results is provided in Table 3.

5.2.4 Leachate

Leachate samples were collected from the leachate collection system. A summary of constituents detected in the leachate sample is provided in Table 4.

6.0 STATISTICAL ANALYSIS

No statistical analyses were performed on the analytical data based on 15A NCAC 13B.1632 and .1633, effective April 1, 2011.

7.0 GROUNDWATER CHARACTERIZATON

A potentiometric surface map was prepared from groundwater elevation data collected during this sampling event. Based on groundwater elevation data measured during this sampling event, groundwater flow direction was determined to be to the northwest, consistent with historic groundwater flow patterns at the site. The potentiometric surface map is included as Drawing 1.

Groundwater flow velocities were also calculated for this sampling event. Groundwater flow velocities were calculated for monitoring wells using the equation:

$$V = Ki/n$$

Where: V = *average velocity of groundwater flow*
K = *hydraulic conductivity*
i = *groundwater gradient*
n = *porosity*

Groundwater velocities ranged from 0.011 ft/day (MW-6) to 3.074 ft/day (MW-9A) with an average of 0.475 ft/day. A summary of the measurements and calculations are provided in Table 5.

8.0 CONCLUSIONS

Based on the results of the laboratory analysis, PEI concludes the following:

Laboratory analysis detected several low solubility metal analytes at elevated concentrations in monitoring wells MW-2, MW-3 and MW-8. Field parameters of these monitoring wells indicated high turbidity at the time of sampling. Based on elevated turbidity in the samples noted at the time of collection, the elevated concentrations are attributed to be false positives caused by sediment reacting with preservative in the sample container.

Laboratory analysis detected chromium at a concentration exceeding its respective 2L Standard and SWSL in MW-9A.

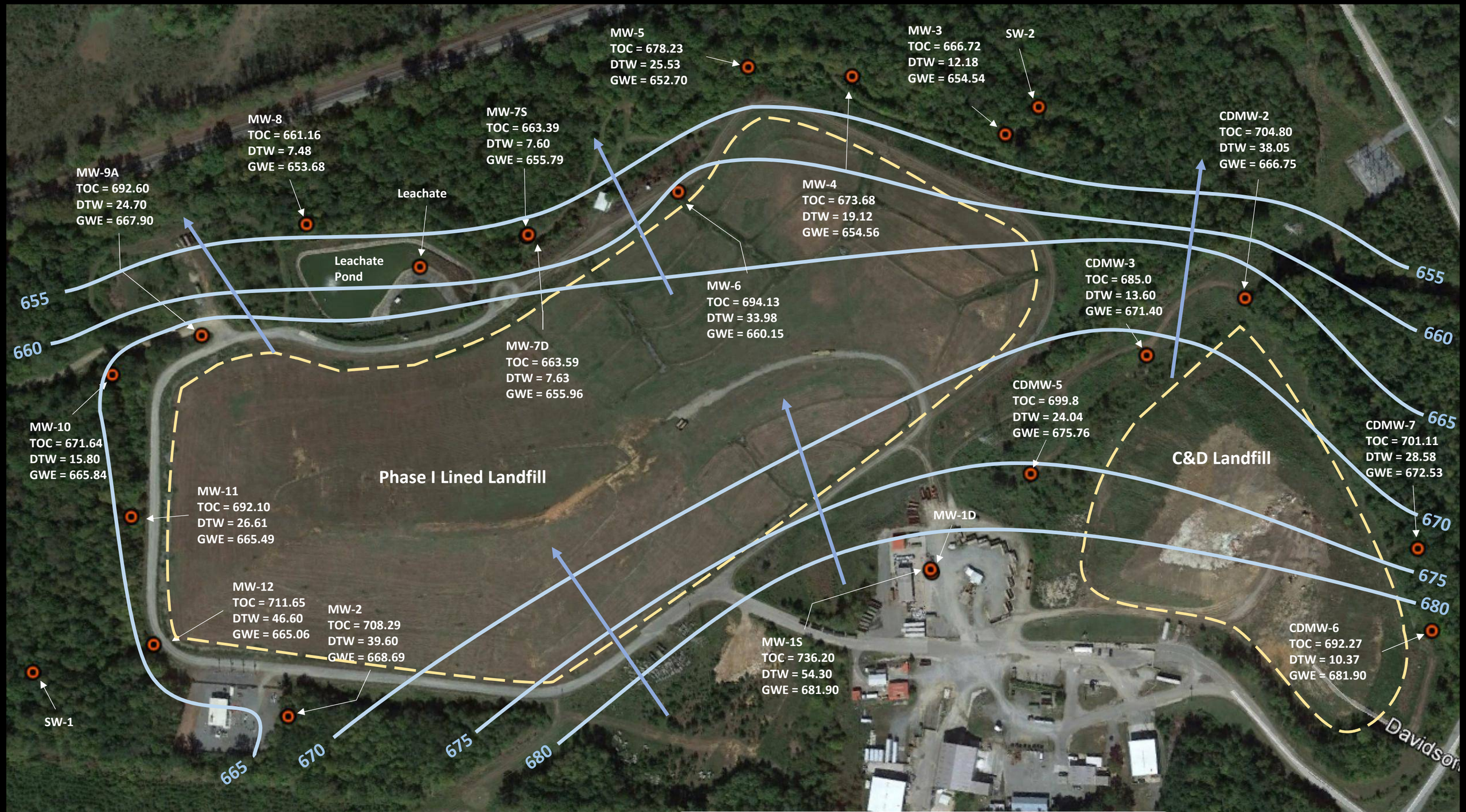
The analytical results for the Phase I Lined Landfill are consistent with historic detections. Concentrations detected are likely due to variations in naturally occurring constituents or elevated turbidity in the groundwater monitoring well at the time of sampling and are not indicative of groundwater impact from the landfill.

9.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in groundwater assessment projects of this type. Our evaluation of site conditions has been based on our understanding of the site project information and the data obtained during our field activities. This report was prepared for the express use of Davidson County Integrated Solid Waste.

DRAWINGS

Drawing 1 Potentiometric Map



Drawing 1
2015 Imagery from
Google Earth
Scale: 1" = 200'
Date: May 9, 2016

PEI ENVIRONMENTAL INC. PILOT

N

Potentiometric Surface Map

Davidson County Phase I Lined Landfill
Lexington, Davidson County,
North Carolina
PEI Project 1760

LEGEND

- Monitoring Well/Surface Water Sample
- Waste Boundary
- Groundwater Surface Contour

TOC = Top of Casing
DTW = Depth to Water
GWE = Groundwater Elevation

TABLES

Table 1	Groundwater Elevations
Table 2	Field Parameters
Table 3	Summary of Groundwater Analytical Results
Table 4	Leachate Analytical Data
Table 5	Groundwater Velocity Calculations

TABLE 1
Groundwater Elevations
Davidson County Phase I Lined Landfill
March 21, 2016

Monitoring Well	Well Installation Date	Latitude	Longitude	Well Diamter (Inches)	Total Well Depth (feet bgs)	Ground Surface Elevation (feet amsl)	TOC Elevation (feet amsl)	Depth to Water* (feet)	Groundwater Elevation (feet)	Screen Interval (feet bgs)	Screen Geology
MW-1S**	6/19/1991	35.84160	80.17795	2.0	62.5	731.10	736.20	54.30	681.90	47.5-62.5	schist
MW-2	5/5/1994	35.84139	80.18294	2.0	39.0	704.59	708.29	39.60	668.69	24.0-39.0	diorite
MW-3	4/27/1994	35.84426	80.17685	2.0	20.0	663.89	666.72	12.18	654.54	7.5-17.5	sand, silt and clay
MW-4	4/28/1994	35.84468	80.17803	2.0	20.0	682.10	673.68	19.12	654.56	10.0-20.0	sand, silt and clay
MW-5	3/24/2008	35.84490	80.17870	2.0	38.0	676.29	678.23	25.53	652.70	28.0-38.0	clayey silt
MW-6	6/7/1994	35.84419	80.17941	2.0	68.5	691.19	694.13	33.98	660.15	58.5-68.5	granite gneiss
MW-7S	4/25/1994	35.84409	80.18056	2.0	15.0	661.35	663.39	7.60	655.79	5.0-15.0	clay and silt or sand
MW-7D	4/26/1994	35.84404	80.18064	2.0	46.0	661.13	663.59	7.63	655.96	36.0-46.0	sand and clay
MW-8	4/27/1994	35.84438	80.18226	2.0	15.0	661.31	661.16	7.48	653.68	5.0-15.0	sand, silt and clay
MW-9A	11/11/2010	35.84381	80.18290	2.0	33.0	691.34	692.60	24.70	667.90	23.0-33.0	silt and PWR
MW-10	9/8/1999	35.84356	80.18383	2.0	27.5	667.00	671.64	15.80	655.84	17.5-27.5	diorite
MW-11	12/18/1997	35.84274	80.18392	2.0	33.0	689.22	692.10	26.61	665.49	23.0-33.0	rock
MW-12	9/7/1999	35.84194	80.18391	2.0	80.0	709.29	711.66	46.60	665.06	70.0-80.0	granite pegmatite

Notes:
amsl = above mean sea level
bgs = below ground surface
TOC = Top of casing
*Depth to water measured from TOC
**MW-1s is the same well as MW-4 associasted with Holly Grove Landfill

TABLE 2
Field Parameters
Davidson County Phase I Lined Landfill
March 21, 2016

Monitoring Well	pH (Standard Units)	Conductivity (umhos)	Temperature (celsius)	Turbity (NTU)
MW-1S*	6.28	65.4	17.4	4.69
MW-2	7.15	202	12.3	71.8
MW-3	6.61	239	15.1	116.1
MW-4	5.91	147	14.5	81.3
MW-5	6.51	148.1	16.8	15.36
MW-6	6.84	155.9	16.8	10.83
MW-7S	6.41	104.5	13.1	24.7
MW-7D	6.62	34.8	16.5	4.49
MW-8	5.66	66.2	15.2	106.4
MW-9A	6.91	263	13.6	6.98
MW-10	6.67	312.3	15.1	3.21
MW-11	6.65	425	15.1	5.56
MW-12	7.08	512	14.1	11.67
SW-1	7.2	232	12.6	4.78
SW-2	7.02	182.1	15.9	5.79

Notes:
*MW-1s is the same well as MW-4 associated with the Holly Grove Landfill

TABLE 3
Summary of Analytical Results
Davidson County Phase I Lined Landfill
March 21, 2016

Parameter	GROUNDWATER SAMPLING															Comparison Criteria					
Sample ID	**MW-1S***	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-7S**	**MW-7D**	**MW-8**	**MW-9A**	**MW-10**	**MW-11**	**MW-12**	**SW-1**	**SW-2**	**MDL**	**MRL**	**SWSL**	**2L or GWP Standard**	**MCL**	**2B Standard**
Volatile Organic Compounds																					
All Compounds	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--	--	--	--	--	--
Inorganic Consituents																					
antimony	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.9	5	6	1#	6	640
arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.4	10	10	10	10	10
barium	47.0J	38.6J	**983**	61.8J	61.3J	13.6J	13.2J	6.66J	93.2J	8.72J	4.12J	8.15J	BDL	25.0J	23.6J	1.3	40	100	700	2,000	2,000,000
beryllium	BDL	BDL	2.3	BDL	0.955J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4	1	1	4#	4	6.5
cadmium	BDL	0.920J	1.32	BDL	BDL	0.330J	BDL	BDL	BDL	0.410J	0.310J	BDL	0.420J	BDL	BDL	0.3	1	1	2	5	2
cobalt	BDL	5.06J	**52.5**	5.64J	BDL	BDL	10.4J	BDL	**12.2**	BDL	BDL	BDL	BDL	BDL	BDL	1.5	10	10	1#	NE	270
copper	3.26J	23.6	197	18	4.80J	BDL	6.80J	3.69J	31.3	4.60J	3.20J	2.32J	3.24J	4.76J	4.60J	1.1	10	10	1,000	1,300	7
chromium (total)	BDL	**19.3**	**26.8**	6.84J	BDL	3.42J	2.04J	BDL	**19.8**	**16.6**	BDL	BDL	BDL	BDL	BDL	1.3	10	10	10	100	50
iron	122J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15.4	50	300	300	300	1
manganese	17.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.6	10	50	50	50	NE
lead	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.0J	BDL	BDL	BDL	BDL	BDL	BDL	1.7	5	10	15	15	28
nickel	BDL	11.6J	91.1	3.84J	BDL	BDL	2.68J	BDL	10.9J	BDL	BDL	BDL	BDL	BDL	BDL	1.7	10	50	100	NE	88
selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5	10	10	20	50	5
silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.8	10	10	20	100	0.06
vanadium	3.03J	17.5J	**143**	**17.9**	5.68J	BDL	7.92J	BDL	**46.3**	**10.4**	BDL	6.26J	5.48J	BDL	1.82J	1.8	10	25	0.3#	NE	NE
zinc	14.8	30.9	200	32.6	20.6	19.3	18.8J	18.2	91.8	21.6	16.9	16.5	16.5	18.1	13.8	2.9	10	10	1,000	5,000	50

Notes:
MRL = Method Reporting Limit
SWSL = Solid Waste Section Quantitation Limits
2L= NCDEQ Groundwater Standards (15A NCAC 2L 0200)
GWP = Solid Waste Section Groundwater Protection Standards (noted by #)
MCL = Federal Maximum Contaminant Limit
2B = NCAC 2B Standards for Class C waters
NE = Standard Not Established
Results presented in ug/l, analogous to parts per billion (ppb)
BDL = Compound not detected at a concentration above the MDL
Bold denotes concentration exceeds the 2L Standard
J = Estimated concentration detected at concentration between the MDL and SWSL
*MW-1s is the same well as MW-4 associated with the Holly Grove Landfill

TABLE 4
Leachate Analytical Data
Davidson County Phase I Lined Landfill
March 21, 2016

Parameter	Unit	Leachate
BOD	mg/l	11.2
COD	mg/l	102
Nitrate Nitrogen as N	mg/l	0.185
Total Phosphorus as P	mg/l	0.061
Sulfate	mg/l	15.7
Antimony	ug/l	BRL
Arsenic	ug/l	BRL
Barium	ug/l	56.4J
Cobalt	ug/l	1.82J
Chromium (Total)	ug/l	1.34J
Copper	ug/l	5.96J
Nickel	ug/l	12.3J
Manganese	ug/l	200
Vanadium	ug/l	2.72J
Zinc	ug/l	24.9

Notes:
J = estimated concentrations between laboratory MDL and SWSL
mg/l = parts per million
ug/l = parts per billion

TABLE 5
Groundwater Velocity Calculations
Davidson County Phase I Lined Landfill
March 21, 2016

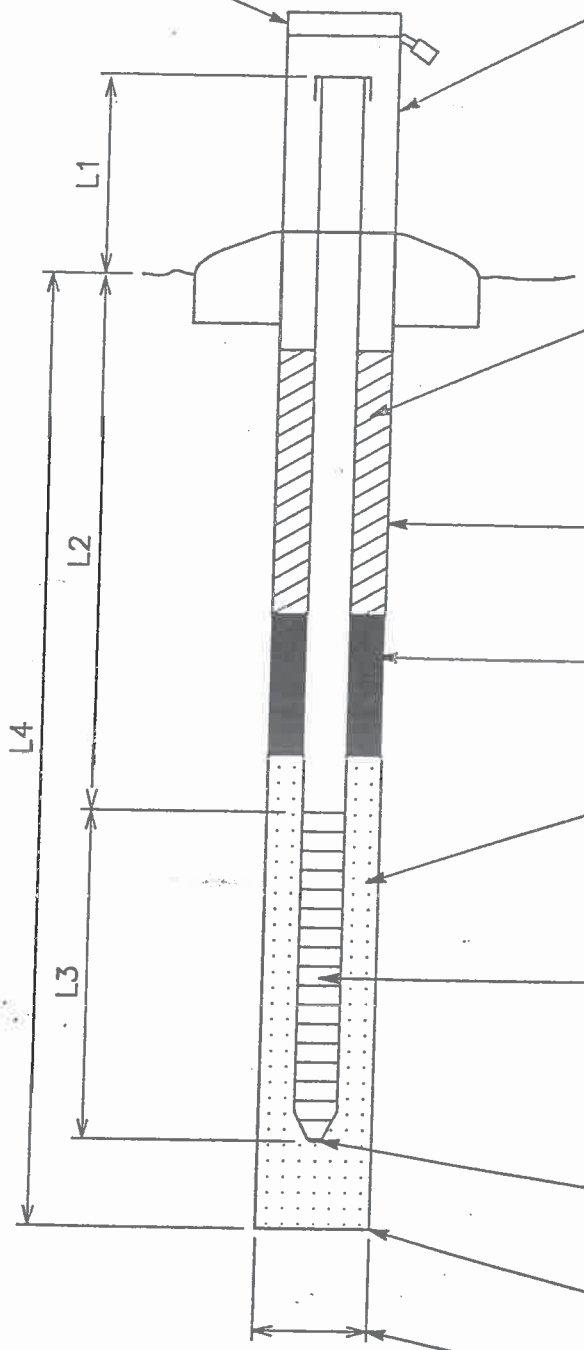
Monitoring Well	Aquifer	Conductivity (ft/day)	Conductivity (ft/min)	Assumed Porosity (n)	Gradient (i)	Velocity (ft/day)
MW-1S	Bedrock	0.14	9.72E-05	0.1	0.016	0.022
MW-2	Bedrock	0.17	1.18E-04	0.1	0.026	0.044
MW-3	Uncosolidated	0.62	4.31E-04	0.2	0.011	0.034
MW-4	Uncosolidated	1.31	9.10E-04	0.2	0.018	0.115
MW-6	Bedrock	0.02	1.39E-05	0.1	0.053	0.011
MW-7S	Uncosolidated	0.38	2.64E-04	0.15	0.047	0.119
MW-8	Uncosolidated	0.57	3.96E-04	0.15	0.033	0.125
MW-9A	Uncosolidated	2.65	1.84E-03	0.1	0.116	3.074
MW-10	Uncosolidated	0.88	6.11E-04	0.2	0.056	0.246
MW-11	Uncosolidated	4.13	2.87E-03	0.2	0.061	1.260
MW-12	Uncosolidated	0.58	4.03E-04	0.2	0.060	0.174

Notes:
Velocity calculated from V=Ki/n
V = Velocity
K= Hydrulic Conductivity
i= gradient
n= porosity
Hydraulic conductivity data from slug testing performedin 1994.
Porosity values assumed from Groundwater & Wells (Driscoll).
Gradient calculated from Fall 2013 potentiometric surface.

APPENDIX

Monitoring Well Logs
Laboratory Data Sheets and Chain of Custody Documents

LANDFILL MONITORING WELL No. MW- 1
TYPE II WELL INSTALLATION



PROTECTIVE CASING AND CONCRETE PAD

P. CASING MATERIAL	Steel
P. CASING DIAMETER	6 X 6 inches
P. CASING LENGTH	5 feet
PAD DIMENSIONS	3 ft. dia.
HEIGHT ABOVE GROUND	1.20 feet
PAD ELEVATION	735.00
TOP OF CASING ELEVATION	736.20

WELL RISER CASING

MATERIAL	Schedule 40 PVC
DIAMETER	2 inch
JOINT TYPE	Flush-thread
LENGTH	47.5 feet

BACKFILL AROUND CASING

MATERIAL	Cement grout
THICKNESS	46.5 feet

ANNULAR SEAL

TYPE OF SEAL	Bentonite
THICKNESS	1.0 feet

FILTER PACK

TYPE OF FILTER	Sand
DISTANCE ABOVE SCREEN	0.0 feet
LENGTH	15.0 feet

WELL SCREEN

SCREEN MATERIAL	Schedule 40 PVC
DIAMETER	2 inch
LENGTH	15.0 feet
SLOT SIZE	0.010 inch

DEPTH TO BOTTOM OF MONITORING WELL	62.5 feet
DEPTH TO BOTTOM OF FILTER SAND	62.5 feet
DIAMETER OF BOREHOLE	6 inch

L1 = 1.20 FT.
L2 = 47.5 FT.
L3 = 15.0 FT.
L4 = 62.5 FT.

CROSS-SECTIONAL VIEW

Note: Well was installed ± 6/19/1991 by Engineering Tectonics (REG. #835) and denoted as well MW-4 under former landfill permit # 29-02.

TITLE

MONITORING WELL CONSTRUCTION DETAIL
NEW DAVIDSON COUNTY LANDFILL
LEXINGTON, NORTH CAROLINA

G · N · Richardson & Associates
CONSULTING ENGINEERING

CAD FILE	PREP. BY	REV. BY	DATE	PROJECT NO.
94012-2.DWG	GHS		06-07-94	GRA94012

FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-2

PROJECT NUMBER: 94012
PROJECT NAME: DAVIDSON COUNTY
LOCATION: LEXINGTON, NORTH CAROLINA
DRILLING COMPANY: BORE AND CORE
RIG TYPE & NUMBER: MOBILE B-53
DRILLING METHOD: HOLLOW STEM AUGER
WEATHER: SUNNY
FIELD PARTY: KENNY MOSLEY
GEOLOGIST: GRAHAM SIMMERMAN
DATE BEGUN: 5/5/94 DATE COMPLETED: 5/5/94

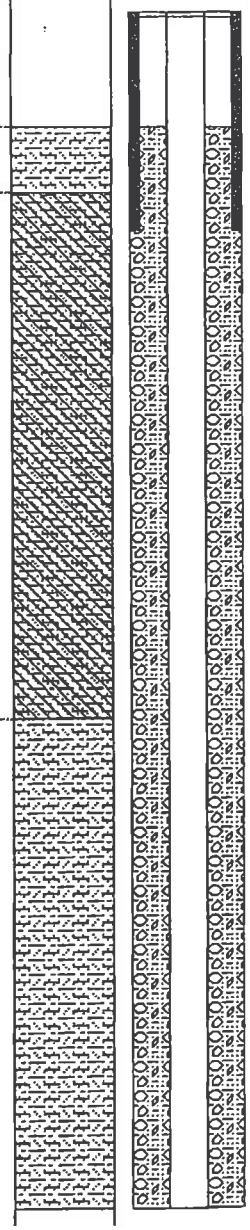
TOP OF CASING ELEVATION: -
TOTAL DEPTH: 39.0
GROUND SURFACE ELEVATION: -
SHEET: 1 OF: 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)		
Time		
Date:		

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	CGI	LITHOLOGY DESCRIPTION
2.0								
1.0								
0.0								SAND AND SILT: brown;fine grained.
1.0								
2.0								CLAY AND SILT AND SAND: brown to green; fine grained.
3.0	6	Ss	S1					
4.0	6 7							
5.0								
6.0								
7.0								
8.0	4	Ss	S2					
9.0	6 7							
10.0								
11.0								SAND AND SILT: brown green; fine grained.
12.0								
13.0	11	Ss	S3					
14.0	16 16							
15.0								
16.0								
17.0								
18.0	14	Ss	S4					
19.0	21 22							
20.0								

LITHOLOGY

WELL INSTALLATION



FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-2

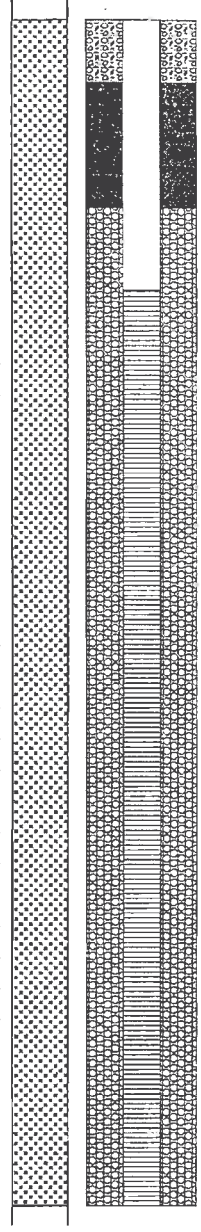
PROJECT NUMBER: 94012
PROJECT NAME: DAVIDSON COUNTY
LOCATION: LEXINGTON, NORTH CAROLINA
DRILLING COMPANY: BORE AND CORE
RIG TYPE & NUMBER: MOBILE B-53
DRILLING METHOD: HOLLOW STEM AUGER
WEATHER: SUNNY
FIELD PARTY: KENNY MOSLEY
GEOLOGIST: GRAHAM SIMMERMAN
DATE BEGUN: 5/5/94 DATE COMPLETED: 5/5/94

TOP OF CASING ELEVATION: -
TOTAL DEPTH: 39.0
GROUND SURFACE ELEVATION: -
SHEET: 2 OF 2

STATIC WATER LEVEL (BLS)		
WO=While Drilling AB=After Boring		
Depth(ft)		
Time		
Date		

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
20.0								DIORITE: white feldspar with augite, weathered
21.0								
22.0								
23.0	15	Ss	S5					
24.0	32							
	37							
25.0								
26.0								
27.0								
28.0	40	Ss	S6					
29.0	50/5							
30.0								
31.0								
32.0				W				
33.0	50/5	Ss	S7					
34.0								
35.0								
36.0								
37.0								
38.0	50/5	Ss	S8					
39.0								

DEPTH | LITHOLOGY | WELL INSTALLATION



FIELD BOREHOLE LOG

BOREHOLE NUMBER
MW-3

PROJECT NUMBER 94012
PROJECT NAME: DAVIDSON COUNTY
LOCATION LEXINGTON, NORTH CAROLINA
DRILLING COMPANY: BORE AND CORE
RIG TYPE & NUMBER: MOBILE B-53
DRILLING METHOD: HOLLOW STEM AUGER
WEATHER SUNNY
FIELD PARTY: KENNY MOSLEY
GEOLOGIST: GRAHAM SIMMERMAN
DATE BEGUN: 4/27/94 DATE COMPLETED: 4/27/94

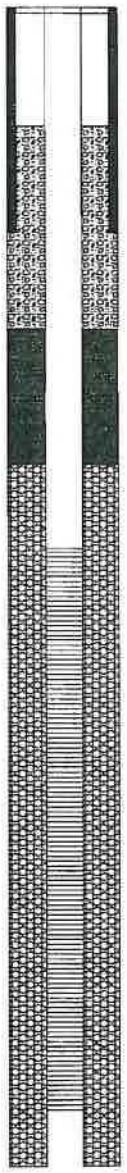
TOP OF CASING ELEVATION 666.72
TOTAL DEPTH 20.0
GROUND SURFACE ELEVATION 664.56
SHEET: 1 OF: 1

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	12.10 AB	
Time	15:40	
Date:	05/03/94	

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
2.0								
1.0								
0.0								SAND AND CLAY: organic rich, heavily rooted, trace to abundant 1/4" black and orange rind concretions, moist, firm to stiff; brown to dark brown.
1.0								
2.0								
3.0	4	Ss	S1					
4.0	5							
	11							
5.0								
6.0								
7.0								
8.0	10	Ss	S2					
9.0	12							CLAY AND SILT AND SAND: numerous white feldspar black manganese, and orange iron inclusions, firm; moist; orange brown
	15							
10.0								
11.0								
12.0								
13.0	50/6	Ss	S3					
14.0								SAND AND CLAY: medium to coarse grained sand, some muscovite and feldspar, moist, light tan to medium gray
15.0								
16.0								
17.0								
18.0	10	Ss	S4	W				
19.0	11							SAND AND CLAY AND SILT: 1.5 inch pegmatite zones; med. tan to gray
	12							
20.0								

LITHOLOGY

WELL INSTALLATION



FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-4

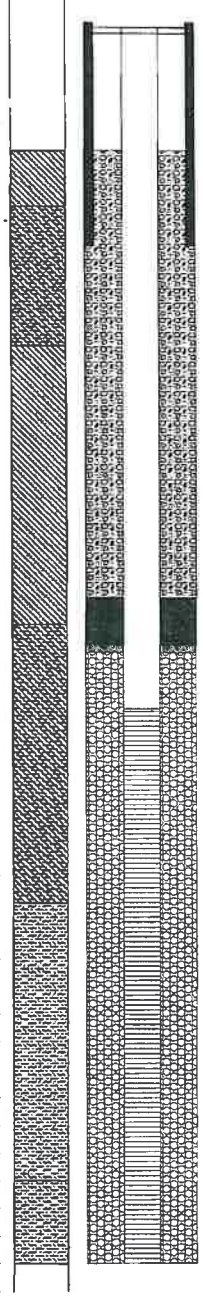
PROJECT NUMBER: 94012
PROJECT NAME: DAVIDSON COUNTY
LOCATION: LEXINGTON, NORTH CAROLINA
DRILLING COMPANY: BORE AND CORE
RIG TYPE & NUMBER: MOBILE B-53
DRILLING METHOD: HOLLOW STEM AUGER
WEATHER: SUNNY
FIELD PARTY: KENNY MOSLEY
GEOLOGIST: GRAHAM SIMMERMAN
DATE BEGUN: 4/28/94 DATE COMPLETED: 4/28/94

TOP OF CASING ELEVATION: 673.68
TOTAL DEPTH: 20.0
GROUND SURFACE ELEVATION: 671.51
SHEET 1 OF: 1

STATIC WATER LEVEL (BLS)		
WO=While Drilling AB=After Boring		
Depth(ft)	19.21 AB	
Time	16:50	
Date	05/03/94	

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
2.0								
1.0								
0.0								SAND AND CLAY: tan to orange; fill
1.0								SAND AND CLAY AND SILT: rooted, med. brown
2.0								
3.0	16	Ss	S1					CLAY AND SAND: some silt, relict granite gneiss with white med to coarse feldspar, medium to fine quartz and abundant biotite laminae dry, very dense; light tan to orange tan
4.0	32							
	42							
5.0								
6.0								
7.0								
8.0	36	Ss	S2					SILT AND CLAY: trace fine biotite (2 inches), coarse clayey sand granite gneiss, coarse white feldspar and biotite, dry, very dense; dark olive green
9.0	50/4							
	25							
10.0								
11.0								
12.0								
13.0	27	Ss	S3					SAND AND SILT: with some clay; medium to coarse grained feldspar and quartz, abundant muscovite; weathered granite gneiss; equigranular, dry; very dense; light tan
14.0								
15.0								
16.0								
17.0								
18.0	36	Ss	S4	W				SAND AND SILT: fine to med feldspar, some biotite; moist, very dense, light gray
19.0	36							
	50/5							
20.0								

LITHOLOGY



WELL INSTALLATION

FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-5A

PROJECT NUMBER: 94012
PROJECT NAME: DAVIDSON COUNTY
LOCATION: LEXINGTON, NORTH CAROLINA
DRILLING COMPANY: BORE AND CORE
RIG TYPE & NUMBER: MOBILE B-53
DRILLING METHOD: HOLLOW STEM AUGER
WEATHER: SUNNY
FIELD PARTY: KENNY MOSLEY
GEOLOGIST: GRAHAM SIMMERMAN
DATE BEGUN: 4/28/94 DATE COMPLETED: 4/28/94

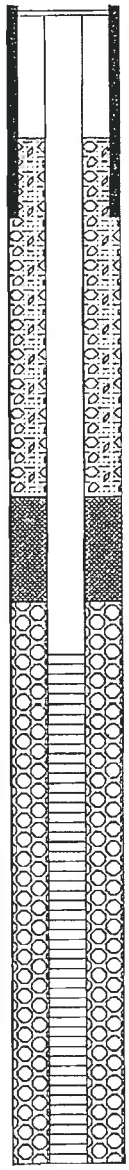
TOP OF CASING ELEVATION: 674.57
TOTAL DEPTH: 19.5
GROUND SURFACE ELEVATION: 672.23
SHEET: 1 OF: 1

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	19.45 DB	
Time	16:15	
Date:	04/28/94	

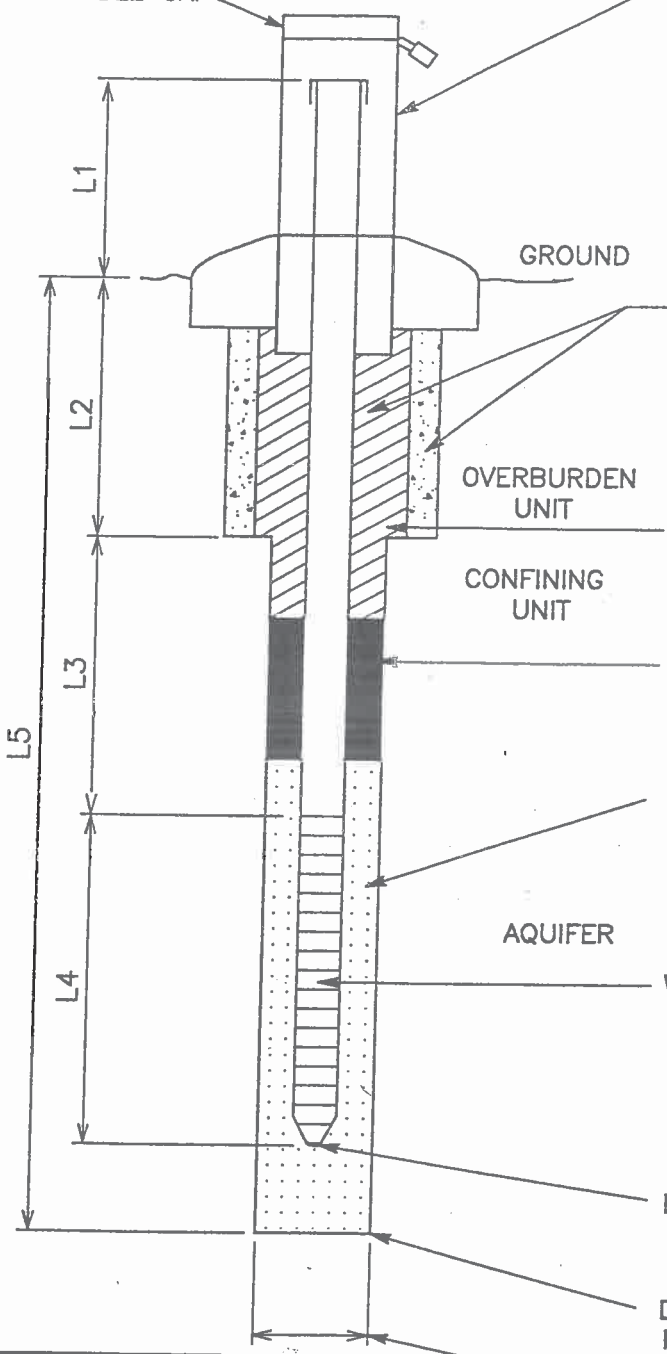
DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	ORGANIC VAPOR	CGI	LITHOLOGY DESCRIPTION
2.0								
1.0								
0.0								CLAY AND SILT: with manganese staining; dry; stiff; yellow tan.
1.0								
2.0								
3.0	8	Ss	S1					
4.0	7 9							
5.0								
6.0								
7.0								
8.0	12	Ss	S2					
9.0	15 25							SAND AND CLAY: med. to coarse grained quartz and feldspar; feldspar is white to pinkish; abundant biotite; some iron staining; dry; dense; weathered granite gneiss; light tan.
10.0								
11.0								
12.0								
13.0	25	Ss	S3					
14.0	50/5							SAND AND CLAY: med. to coarse feldspar (white) and quartz; abundant muscovite; orange iron staining throughout; equigranular; very dense; wet; orange tan.
15.0								
16.0								
17.0								
18.0	50/5	Ss	S4					
19.0				W				CLAY AND SAND AND SILT: med. to fine grained; abundant feldspar and blue quartz; lt. brown.
20.0								

LITHOLOGY

WELL INSTALLATION



LANDFILL MONITORING WELL No. MW– 6
TYPE III WELL INSTALLATION



PROTECTIVE CASING AND CONCRETE PAD

P. CASING MATERIAL	Steel
P. CASING DIAMETER	4 X 4 inches
P. CASING LENGTH	5 feet
PAD DIMENSIONS	2 X 2 feet
HEIGHT ABOVE GROUND	1.34 feet
PAD ELEVATION	692.79
TOP OF CASING ELEVATION	694.12

WELL RISER CASING

	INNER	OUTER
MATERIAL	Sch. 40 PVC	Sch. 40 PVC
DIAMETER	2.0 inch	6.0 inch
JOINT TYPE	Flush-thread	Flush-threa
LENGTH	58.5 feet	29.0 feet

RISER BACKFILL

	INNER	OUTER
MATERIAL	Cement grout	Cement grou
THICKNESS	53.0 feet	29.0 feet

ANNULAR SEAL

TYPE OF SEAL	Bentonite chips
THICKNESS	3.0 feet

FILTER PACK

TYPE OF FILTER	#3 filter sand
DISTANCE ABOVE SCREEN	2.5 feet
LENGTH	12.5 feet

WELL SCREEN

SCREEN MATERIAL	Schedule 40 PVC
DIAMETER	2 inch
LENGTH	10.0 feet
SLOT SIZE	0.010 inch

DEPTH TO BOTTOM OF MONITORING WELL	68.5 feet
DEPTH TO BOTTOM OF FILTER SAND	68.5 feet
DIAMETER OF BOREHOLE	5.88 inches

L1 = 1.34 FT.
L2 = 29.0 FT.
L3 = 29.5 FT.
L4 = 10.0 FT.
L5 = 68.5 FT.

CROSS–SECTIONAL VIEW

TITLE

MONITORING WELL CONSTRUCTION DETAIL
NEW DAVIDSON COUNTY LANDFILL
LEXINGTON, NORTH CAROLINA

G • N • Richardson & Associates
CONSULTING ENGINEERING

CAD FILE	PREP. BY	REV. BY	DATE	PROJECT NO.
94012–2.DWG	GHS		06–07–94	GRA94012

FIELD BOREHOLE LOG

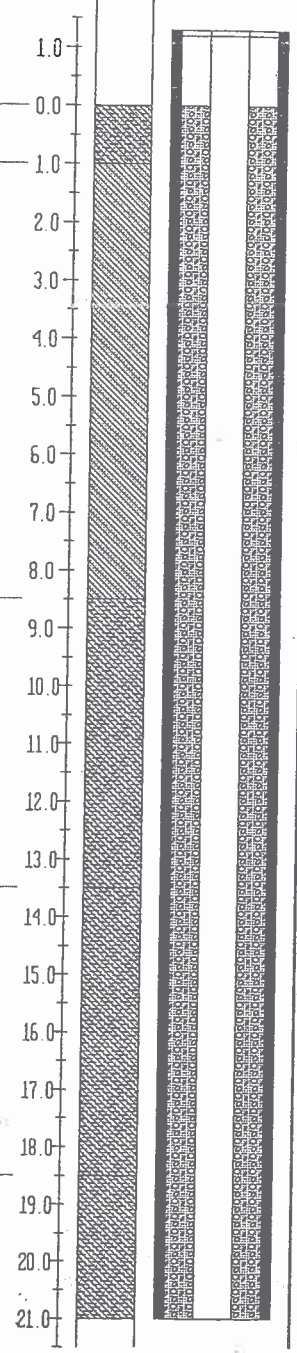
BOREHOLE NUMBER: MW-6D

PROJECT NUMBER: 94012
PROJECT NAME: DAVIDSON COUNTY
LOCATION: LEXINGTON, NORTH CAROLINA
DRILLING COMPANY: BORE AND CORE
RIG TYPE & NUMBER: MOBILE B-53
DRILLING METHOD: HOLLOW STEM AUGER
WEATHER: SUNNY
FIELD PARTY: KENNY MOSLEY
GEOLOGIST: GRAHAM SIMMERMAN
DATE BEGUN: 5/04/94 DATE COMPLETED: 5/04/94

TOP OF CASING ELEVATION: 694.13
TOTAL DEPTH: 68.5
GROUND SURFACE ELEVATION: 692.79
SHEET: 1 OF: 3

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)		
Time		
Date:		

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
1.0								
0.0								CLAY AND SILT AND SAND: fill.
1.0								CLAY AND SAND: coarse sand; light tan brown; soft; moist; fill; some roots.
2.0								
3.0	5	Ss	S1					
4.0	7							
	7							
5.0								
6.0								
7.0								
8.0	5	Ss	S2					
9.0	6							CLAY AND SILT: tan brown to orange red; interbedded with light tan coarse sandy clay; with quartz and feldspar; soft; moist; medium dense.
	9							
10.0								
11.0								
12.0								
13.0	6	Ss	S3					
14.0	10							CLAY AND SILT: light tan; interbedded with orange coarse sandy clay; some greenstone and wood fragments; stiff
	12							
15.0								
16.0								
17.0								
18.0	9	Ss	S4					
19.0	10							CLAY AND SILT: light tan; interbedded with orange coarse sandy clay; some greenstone fragments; stiff.
	9							
20.0								
21.0								



FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-6D

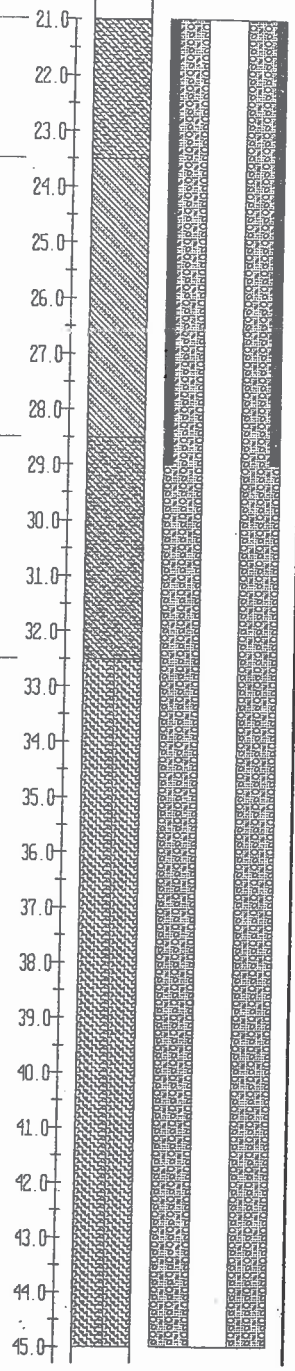
PROJECT NUMBER: 94012
PROJECT NAME: DAVIDSON COUNTY
LOCATION: LEXINGTON, NORTH CAROLINA
DRILLING COMPANY: BORE AND CORE
RIG TYPE & NUMBER: MOBILE B-53
DRILLING METHOD: HOLLOW STEM AUGER
WEATHER: SUNNY
FIELD PARTY: KENNY MOSLEY
GEOLOGIST: GRAHAM SIMMERMAN
DATE BEGUN: 5/04/94 DATE COMPLETED: 5/04/94

TOP OF CASING ELEVATION: 694.13
TOTAL DEPTH: 68.5
GROUND SURFACE ELEVATION: 692.79
SHEET: 2 OF: 3

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)		
Time		
Date:		

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
21.0								CLAY AND SILT: light tan; interbedded with orange coarse sandy clay; some greenstone fragments; stiff.
22.0								
23.0	6	Ss	S5					
24.0	10							CLAY AND SAND: orange brown; coarse grained; moist; stiff.
	14							
25.0								
26.0								
27.0								
28.0	12	Ss	S6					
29.0	50/5							CLAY AND SAND AND SILT: dark brown to orange and tan; heavy manganese staining; tan feldspar bands; residual weathered gneiss.
30.0								
31.0								
32.0								
33.0	50/1	Ss	S7					GRANITE GNEISS: bedrock; auger refusal.
34.0								
35.0								
36.0								
37.0								
38.0								
39.0								
40.0								
41.0								
42.0								
43.0								
44.0								
45.0								

DEPTH | LITHOLOGY | WELL INSTALLATION



FIELD BOREHOLE LOG

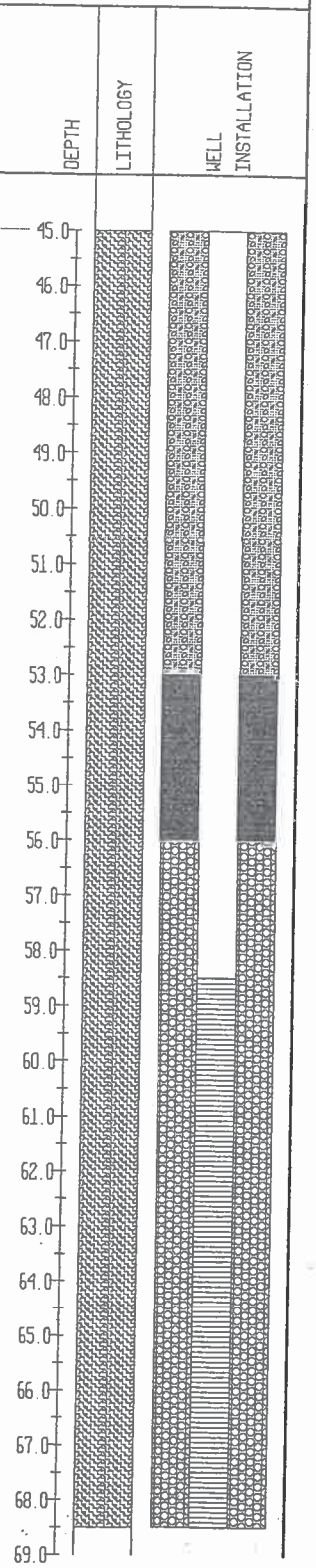
BOREHOLE NUMBER: MW-6D

PROJECT NUMBER: 94012
PROJECT NAME: DAVIDSON COUNTY
LOCATION: LEXINGTON, NORTH CAROLINA
DRILLING COMPANY: BORE AND CORE
RIG TYPE & NUMBER: MOBILE B-53
DRILLING METHOD: HOLLOW STEM AUGER
WEATHER: SUNNY
FIELD PARTY: KENNY MOSLEY
GEOLOGIST: GRAHAM SIMMERMAN
DATE BEGUN: 5/04/94 DATE COMPLETED: 5/04/94

TOP OF CASING ELEVATION: 694.13
TOTAL DEPTH: 68.5
GROUND SURFACE ELEVATION: 692.79
SHEET: 3 OF: 3

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)		
Time		
Date:		

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
45.0								GRANITE GNEISS: bedrock
46.0								
47.0								
48.0								
49.0								
50.0								
51.0								
52.0								
53.0								
54.0								
55.0								
56.0								
57.0								
58.0								
59.0								
60.0								
61.0								
62.0								
63.0								
64.0								
65.0								
66.0								
67.0								
68.0								
69.0								



FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-7

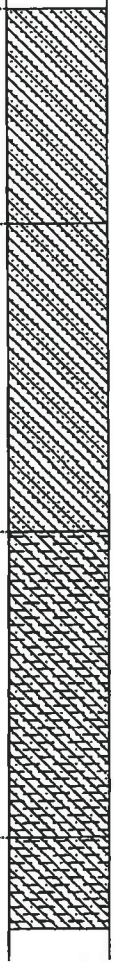
PROJECT NUMBER: 94012
PROJECT NAME: DAVIDSON COUNTY
LOCATION: LEXINGTON, NORTH CAROLINA
DRILLING COMPANY: BORE AND CORE
RIG TYPE & NUMBER: MOBILE B-53
DRILLING METHOD: HOLLOW STEM AUGER
WEATHER: SUNNY
FIELD PARTY: KENNY MOSLEY
GEOLOGIST: GRAHAM SIMMERMAN
DATE BEGUN: 4/25/94 DATE COMPLETED: 4/25/94

TOP OF CASING ELEVATION: 663.39
TOTAL DEPTH: 15.0
GROUND SURFACE ELEVATION: 661.30
SHEET: 1 DF: 1

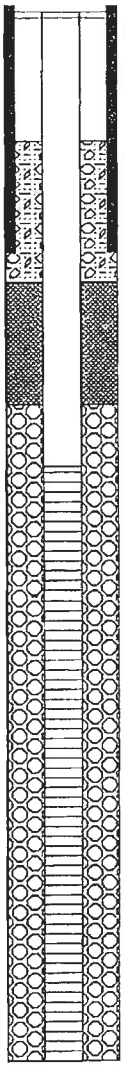
STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	5.08 AB	
Time	12:43	
Date:	05/03/94	

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	ORGANIC VAPOR	CGI	LITHOLOGY DESCRIPTION
2.0								
1.0								
0.0								CLAY AND SAND: fill; orange brown; moist.
1.0								
2.0								
3.0	13	Ss	S1	W				
4.0	17							CLAY AND SAND: orange brown to orange gray; hard; moist; 1 inch orange to tan clay sand with quartz (granite residuum); 3 inch green and white chlorite feldspar gneiss; wet; SM.
	25							
5.0	26							
6.0								
7.0								
8.0	9	Ss	S2					
9.0	11							CLAY AND SILT: relict chlorite schist structure with trace of white feldspar veins; dark green and white; hard; wet.
	14							
10.0								
11.0								
12.0								
13.0	7	Ss	S3					
14.0	11							CLAY AND SILT: chlorite feldspar schist; one 45 degree fracture; dk. green and white.
	16							
15.0								

LITHOLOGY



WELL INSTALLATION



FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-7D

PROJECT NUMBER: 94012
PROJECT NAME: DAVIDSON COUNTY
LOCATION: LEXINGTON, NORTH CAROLINA
DRILLING COMPANY: BORE AND CORE
RIG TYPE & NUMBER: MOBILE B-53
DRILLING METHOD: HOLLOW STEM AUGER AND AIR ROTARY
WEATHER: SUNNY
FIELD PARTY: KENNY MOGLEY
GEOLOGIST: GRAHAM SIMMERMAN
DATE BEGUN: 4/26/94 DATE COMPLETED: 4/26/94.

TOP OF CASING ELEVATION: 663.59
TOTAL DEPTH: 46.0
GROUND SURFACE ELEVATION: 661.44
SHEET: 1 OF: 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	4.55 AB	
Time	4:37	
Date:	04/26/94	

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	ORGANIC VAPOR	CGI	LITHOLOGY DESCRIPTION
2.0, 1.0, 0.0, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0	8 13 18	Ss	S1					CLAY AND SAND: with organics; yellowish orange grading to gray green coarse sandy clay; some relict chlorite schist fabric; dry to moist; hard.
9.0, 10.0, 11.0, 12.0, 13.0	8 11 13	Ss	S2					CLAY AND SILT: gray to green; relict chlorite schist; with heavy orange brown iron staining and bands; saprolite; moist; trace hair veins; hard.
14.0, 15.0, 16.0	13 13 19	Ss	S3	W				CLAY AND SILT: equigranular chlorite/white feldspar schist with red/brown iron stained fractures; moist; dense.
17.0, 18.0, 19.0	20 36 50/6	Ss	S4					SILT AND CLAY: gray green chlorite feldspar schist; numerous miscellaneously oriented feldspar microveins; orange staining.
20.0, 21.0								SAND: coarse grained feldspar, quartz muscovite granite; iron stained.

LITHOLOGY

WELL INSTALLATION

FIELD BOREHOLE LOG

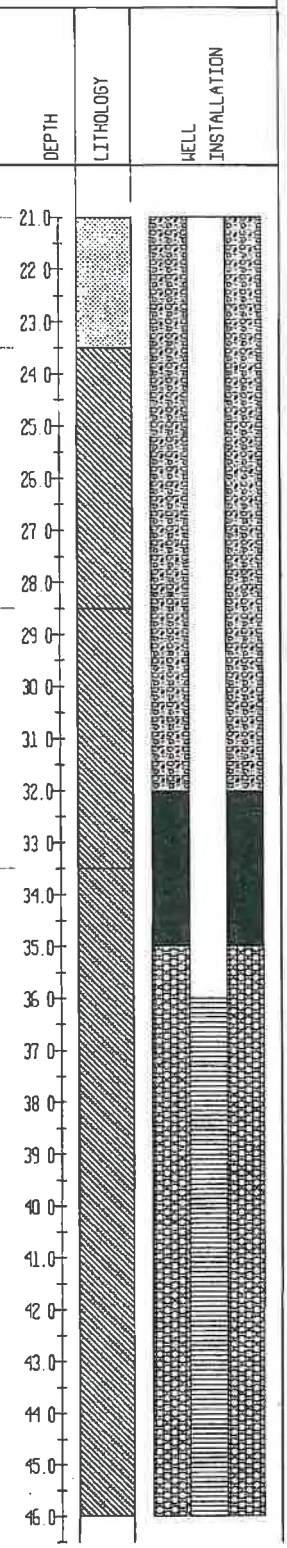
BOREHOLE NUMBER: MW-7D

PROJECT NUMBER: 94012
PROJECT NAME: DAVIDSON COUNTY
LOCATION: LEXINGTON, NORTH CAROLINA
DRILLING COMPANY: BORE AND CORE
RIG TYPE & NUMBER: MOBILE B-53
DRILLING METHOD: HOLLOW STEM AUGER
WEATHER: SUNNY
FIELD PARTY: KENNY MOSLEY
GEOLOGIST: GRAHAM SIMMERMAN
DATE BEGUN: 4/26/94 DATE COMPLETED: 4/26/94

TOP OF CASING ELEVATION 663.59
TOTAL DEPTH 46.0
GROUND SURFACE ELEVATION 661.44
SHEET: 2 OF: 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(Ft)	4.55 AB	
Time	4:37	
Date:	04/26/94	

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
21.0								SAND coarse grained quartz muscovite granite, medium gray with gray quartz; heavy iron staining
22.0								
23.0	25	Ss	S5					
24.0	50/6 50/5							SAND AND CLAY coarse sand, orange brown porphyritic gray quartz/white feldspar trace muscovite and hornblende granite; heavy iron staining
25.0								
26.0								
27.0								
28.0	50/5	Ss	S6					
29.0								SAND AND CLAY coarse sand, brown; porphyritic gray quartz/white feldspar; trace muscovite and hornblende granite, heavy iron staining
30.0								
31.0								
32.0								
33.0	50/4	Ss	S7					
34.0								SAND AND CLAY coarse sand, dark brown; porphyritic gray quartz/white feldspar, trace muscovite and hornblende granite, heavy iron staining
35.0								
36.0								
37.0								
38.0	50/5	Ss	S8					
39.0								
40.0								
41.0								
42.0								
43.0	50/3	Ss	S9					
44.0								
45.0								
46.0								



FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-8

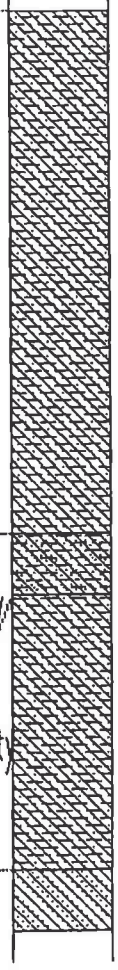
PROJECT NUMBER: 94012
PROJECT NAME: DAVIDSON COUNTY
LOCATION: LEXINGTON, NORTH CAROLINA
DRILLING COMPANY: BORE AND CORE
RIG TYPE & NUMBER: MOBILE B-53
DRILLING METHOD: HOLLOW STEM AUGER
WEATHER: SUNNY
FIELD PARTY: KENNY MOSLEY
GEOLOGIST: GRAHAM SIMMERMAN
DATE BEGUN: 4/27/94 DATE COMPLETED: 4/27/94

TOP OF CASING ELEVATION: 661.16
TOTAL DEPTH: 15.0
GROUND SURFACE ELEVATION: 659.83
SHEET: 1 OF: 1

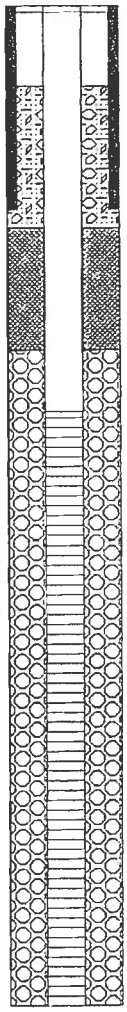
STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	6.34 AB	
Time	9:37	
Date:	04/28/94	

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	ORGANIC VAPOR	CGI	LITHOLOGY DESCRIPTION
2.0								
1.0								
0.0								CLAY AND SILT: with medium to coarse sand; engineered fill (nine inches thick); numerous root fragments; mottled iron staining; wetland soil; dark grayish brown.
1.0								
2.0								
3.0	7	Ss	S1					
4.0	4							
	5							
5.0								
6.0								
7.0				W				
8.0	6	Ss	S2					
9.0	4							CLAY AND SAND AND SILT: sand is med. to coarse blue quartz; angular; some reddish orange sandy clay; moist; med. dense.
	4							
10.0								
11.0								
12.0								CLAY AND SILT: light bluish green with tan silty clay; some iron staining; slight relict chlorite/feldspar schist fabric.
13.0	10	Ss	S3					
14.0	10							
	9							CLAY AND SAND: relict granite texture; quartz; feldspar; equigranular; moist.
15.0								

LITHOLOGY



WELL INSTALLATION



Richardson Smith Gardner & Assoc
14 North Boylan Avenue, Raleigh NC 27603
(919) 828-0577

FIELD BOREHOLE LOG

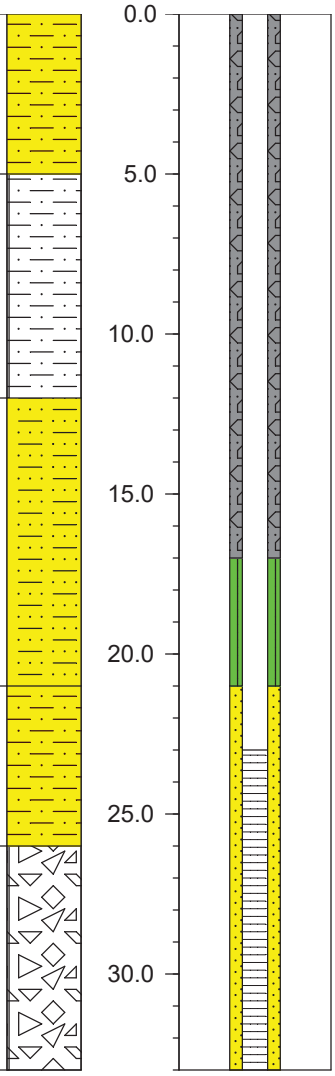
BOREHOLE NUMBER **MW-9a**

PROJECT NAME: **Davidson Co Phase 1 Landfill**
LOCATION: **Davidson County**
DRILLING CO: **Geologic Explorations**
DRILLING METHOD: **AH**
FIELD PARTY: **Johnny Burr**
GEOLOGIST: **Lindsay Quant**
DATE BEGUN: **11/11/10** COMPLETED: **11/11/10**

TOTAL DEPTH: **33**
TOP OF CASING ELEV.:
GROUND ELEV.: **686.32**
NORTHING: **764126.597**
EASTING: **1649351.338**

STATIC WATER LEVEL (BLS)		
Depth (ft)		
Time		
Date		

DEPTH Feet	BLOW COUNT Per 6"	SAMPLING METHOD	RECOVERY Inches	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH Feet	WELL INSTALLATION
0.0				AH	SILT: Dry tan silt.		0.0	
5.0		Grab			SILTY CLAY: Dry tan silty clay.		5.0	
10.0		Grab					10.0	
15.0		Grab			SANDY SILT: Dry tan sandy silt.		15.0	
20.0		Grab					20.0	
25.0		Grab			SILT: Dry to moist gray silt.		25.0	
30.0		Grab			PWR: Moist to wet gray silty partially weathered granitic rock. Boring terminated at 33 feet.		30.0	



North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section
P.O. Box 29578 - Raleigh, N.C. 27626-0578-Phone (919) 733-3221

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: Engineering Tectonics, P.A.
DRILLER REGISTRATION #: 835
STATE WELL CONSTRUCTION PERMIT#:

Well ID: MW-10

1. WELL USE (Check Applicable Box): Residential ☐ Municipal ☐ Industrial ☐ Agricultural ☐ Monitoring ☒
Recovery ☐ Heat Pump Water Injection ☐ Other ☐ If Other, List Use:

2. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Lexington County: Davidson
Davidson County Landfill Road
(Road, Community, or Subdivision and Lot No.)

3. OWNER Davidson County Landfill
ADDRESS 220 Davidson County Landfill Road
(Street or Route No.)
Lexington (City or Town) NC (State) 27292 (Zip Code)

4. DATE DRILLED 9/8/99
5. TOTAL DEPTH 27.5'
6. CUTTINGS COLLECTED YES ☐ NO ☒
7. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒
8. STATIC WATER LEVEL Below Top of Casing: 19.0 FT.
(Use '+' if Above Top of Casing)
9. TOP OF CASING IS 2.5 FT. Above Land Surface *
* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .01 18
10. YIELD(gpm): >1 METHOD OF TEST Bailer
11. WATER ZONES (depth):
12. CHLORINATION: Type Amount

DEPTH From	DEPTH To	DRILLING LOG Formation Description
See attached boring log		

If additional space is needed use back of form

13. CASING:

	Depth From	Depth TO	Diameter	Wall Thickness or Weight/Ft	Material
	2.5	17.5	2"		PVC

14. GROUT:

	Depth From	Depth TO	Material	Method
	0	14.5	Portland cement	Tremie

15. SCREEN:

	Depth From	Depth TO	Diameter	Slot Size	Material
	17.5	27.5	2 in.	10 in.	PVC

16. SAND/GRAVEL PACK:

	Depth From	Depth To	Size	Material
	16.5	27.5	No. 2 Filter Sand	

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

17. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

FOR OFFICE USE ONLY
Quad No:
Serial No:

SIGNATURE OF CONTRACTOR OR AGENT DATE
Submit original to Division of Water Quality and copy to well owner.
GW-1 REV. 1/98

FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-10

PROJECT NUMBER: DAVCO-19
PROJECT NAME: Davidson County Area 2 Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics, P.A.
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Bunny, 90 degrees
FIELD PARTY: David Barron
GEOLOGIST: Philip May
DATE BEGUN: 9/8/99 DATE COMPLETED: 9/8/99

TOP OF CASING ELEVATION: TBD
TOTAL DEPTH: 27.5 FT
GROUND SURFACE ELEVATION: TBD
SHEET: 1 OF: 1

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	23.5	19.0
Time	12:00	9:00
Date:	9/8/99	9/9/99

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
2.0								
1.0								
0.0								SANDY SILTY CLAY: Tan-orange fine sandy silty clay - backfill from road construction around landfill;
1.0								
2.0								
3.0								
4.0								
5.0								auger refusal at 5' - not able to obtain split spoon sample - backfilled 4.5' to regrade slope of landfill - adjusted all depths to reflect new ground surface.
6.0								
7.0								
8.0								
9.0								
10.0								DIORITE: Hard grey-green diorite bedrock with soft seams throughout;
11.0								
12.0								
13.0								
14.0								
15.0								
16.0								
17.0								
18.0								
19.0								
20.0								19.5' water bearing fracture - not apparently under pressure - not rising
21.0								
22.0								
23.0								
24.0								
25.0								
26.0								27.5 boring terminated.
27.0								

DEPTH	LITHOLOGY	WELL INSTALLATION
2.0		
1.0		
0.0		
1.0		
2.0		
3.0		
4.0		
5.0		
6.0		
7.0		
8.0		
9.0		
10.0		
11.0		
12.0		
13.0		
14.0		
15.0		
16.0		
17.0		
18.0		
19.0		
20.0		
21.0		
22.0		
23.0		
24.0		
25.0		
26.0		
27.0		

MW-11

FIELD BOREHOLE LOG

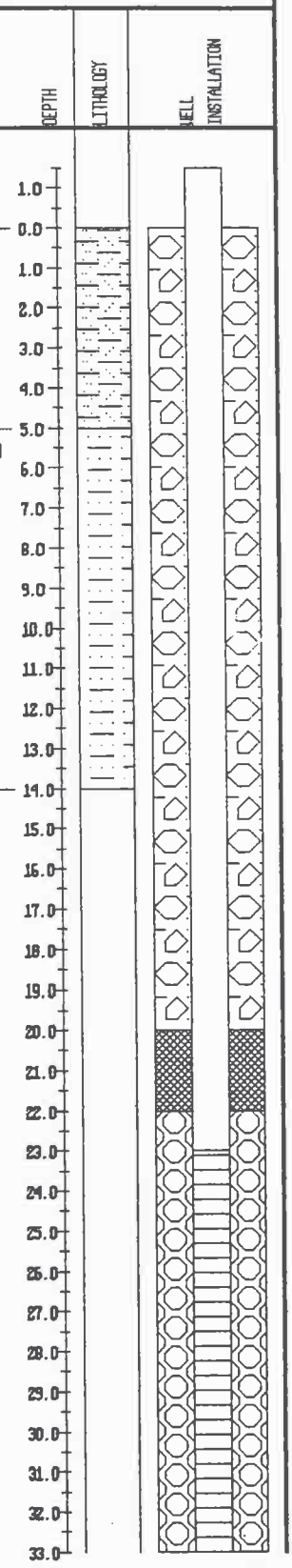
BOREHOLE NUMBER: B-12

PROJECT NUMBER: DAVDCO-12
PROJECT NAME: Davidson County Landfill Area 2 Cell
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Air Rotary/Hammer
WEATHER: Clear, 40 DEGREES
FIELD PARTY: D. Barron
GEOLOGIST: P. May
DATE BEGUN: 12/18/97 DATE COMPLETED: 12/18/97

TOP OF CASING ELEVATION: TBD
TOTAL DEPTH: 33.0 FT
GROUND SURFACE ELEVATION: TBD
SHEET: 1 OF: 1

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(ft)	27.90	26.40
Time	3:00	8:00
Date:	12/18/97	12/19/97

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
0.0							AR	SILTY SAND: White & gray brown F silty sand, some Fe & Mn.
3.0	13 24 29	Ss	S1	D		6"		
5.0								SANDY SILT: White & gray F sandy silt w/ thin tan orange (Fe) and Mn layers;
8.0	12 22 42	Ss	S2	SM		12"		
12.0								gray balck & white PWR (sandy silt); roller bit refusal at 14.0'.
13.0	50/4	Ss	S3	D		1"		
14.0							AH	Hard dark gray rock.
30.0								boring terminated at 33.0'.



FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-12

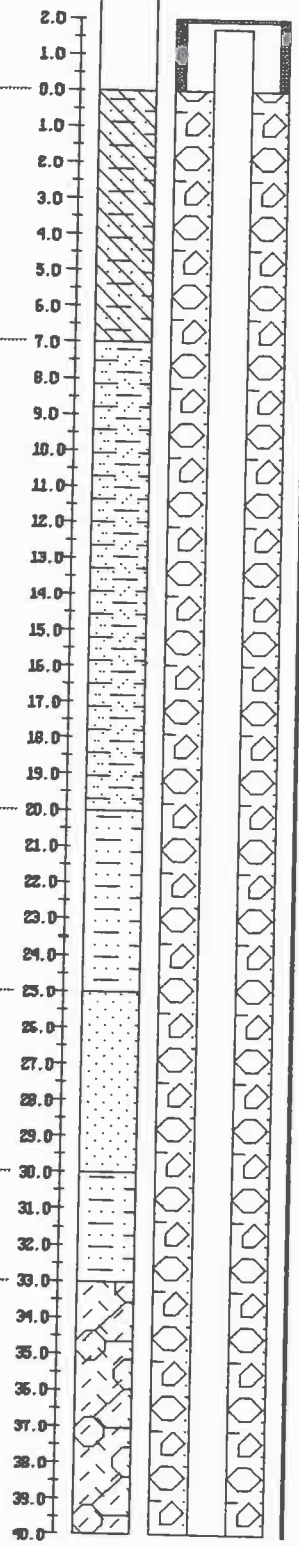
PROJECT NUMBER: DAVCO-19
PROJECT NAME: Davidson County Area 2 LandFill
LOCATION: Lexington North Carolina
DRILLING COMPANY: Engineering Tectonics, P.A.
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Sunny, 90 degrees
FIELD PARTY: David Barron
GEOLOGIST: Philip May
DATE BEGUN: 9/7/99 DATE COMPLETED: 9/8/99

TOP OF CASING ELEVATION: TBD
TOTAL DEPTH: 80.0 FT
GROUND SURFACE ELEVATION: TBD
SHEET: 1 OF: 2

STATIC WATER LEVEL (BLS)		
WD-While Drilling AB-After Boring		
Depth(ft)	79.0	78.0
Time	12:00	9:00
Date:	9/8/99	9/9/99

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
5.0–6.0	3 1 5	Ss	S1	D		10"		SANDY SILTY CLAY: Dry grey fine sandy silty clay, tan & white salt & pepper mottles, mica - possible backfill from road construction.
10.0–11.0	8 26 40	Ss	S2	D		12"		SILTY SAND: Dry light tan-grey fine silty sand, some mica, lower 6" has gravel & Fe, Mn, quartz;
15.0–16.0	27 38 35	Ss	S3	D		0"		15' no recovery - cuttings are same as above.
20.0–21.0	12 22 32	Ss	S4	SM		12"		SANDY SILT: Light tan-grey fine sandy silt, moist, Mn, brown 45 degree streaks, some mica.
25.0–26.0	20 32 32	Ss	S5	M		8"		SAND: Light grey-brown & white mottled slightly moist F-M (some C) sand, brown mottles, some relict rock & gravel.
30.0–31.0	17 26 50	Ss	S6	M		12"		SANDY SILT: Light grey moist F sandy silt, Mn & Fe at 45 degree streaks; auger refusal at 33.0' - switched to air hammer.
								GRANITE PEGMATITE: no apparent fractures in rock;

DEPTH | LITHOLOGY | WELL INSTALLATION



FIELD BOREHOLE LOG

BOREHOLE NUMBER: MW-12

PROJECT NUMBER: DAVCO-19
PROJECT NAME: Davidson County Area 2 Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics, P.A.
RIG TYPE & NUMBER: MOBILE B-80
DRILLING METHOD: Hollow Stem Auger
WEATHER: Sunny, 90 degrees
FIELD PARTY: David Barron
GEOLOGIST: Philip May
DATE BEGUN: 9/7/99 DATE COMPLETED: 9/8/99

TOP OF CASING ELEVATION: TBD
TOTAL DEPTH: 80.0 FT
GROUND SURFACE ELEVATION: TBD
SHEET: 1 OF: 2

STATIC WATER LEVEL (BLS)		
WD=While Drilling AB=After Boring		
Depth(Ft)	79.0	76.0
Time	12:00	9:00
Date:	9/8/99	9/9/99

DEPTH	BLOW COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION
40.0								
41.0								
42.0								
43.0								no water prior to 70', moisture from 70' to 80', but no water- boring terminated at 80'.
44.0								
45.0								
46.0								
47.0								
48.0								
49.0								
50.0								
51.0								
52.0								
53.0								
54.0								
55.0								
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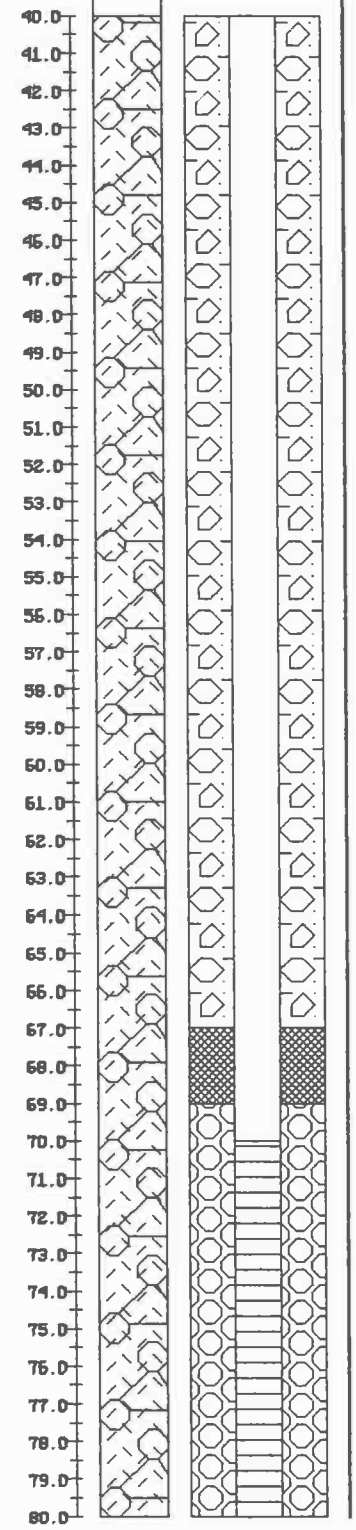
77.0								
78.0								
79.0								
80.0								



Pilot Environmental - Phase I Lined Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-1S	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-1S	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-1S	7440-39-3	15	Barium	**47.0**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-1S	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	MW-1S	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-1S	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-1S	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-1S	7440-50-8	54	Copper	**3.26**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-1S	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-1S	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-1S	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-1S	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-1S	7440-62-2	209	Vanadium	**3.03**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-1S	7440-66-6	213	Zinc	**14.8**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-1S	7439-89-6	340	Iron	**122**	µg/L	J	EPA 200.7	15.4	50.0	300	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-1S	7439-96-5	342	Manganese	**17.7**	µg/L	J	EPA 200.7	1.6	10.0	50.0	1	03/21/2016	03/23/2016	03/28/2016	34

RAL Sample #: 16539-15

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-1S	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-1S	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-15

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-2	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-2	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-2	7440-39-3	15	Barium	**38.6**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-2	7440-41-7	23	Beryllium	**1**	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	MW-2	744-43-9	34	Cadmium	**0.920**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-2	7440-47-3	51	Chromium	**19.3**	µg/L		EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-2	7440-48-4	53	Cobalt	**5.06**	µg/L	J	EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-2	7440-50-8	54	Copper	**23.6**	µg/L		EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-2	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-2	7440-02-0	152	Nickel	**11.6**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-2	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-2	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-2	7440-62-2	209	Vanadium	**17.5**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-2	7440-66-6	213	Zinc	**30.9**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34

RAL Sample #: 16539-02

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-2	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-2	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-2	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-2	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-2	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	MW-2	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-2	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-2	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-02

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-3	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-3	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-3	7440-39-3	15	Barium	**983**	µg/L		EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-3	7440-41-7	23	Beryllium	**2.30**	µg/L		EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	MW-3	744-43-9	34	Cadmium	**1.32**	µg/L		EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-3	7440-47-3	51	Chromium	**26.8**	µg/L		EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-3	7440-48-4	53	Cobalt	**52.5**	µg/L		EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-3	7440-50-8	54	Copper	**197**	µg/L		EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-3	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-3	7440-02-0	152	Nickel	**91.1**	µg/L		EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-3	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-3	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-3	7440-62-2	209	Vanadium	**143**	µg/L		EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-3	7440-66-6	213	Zinc	**200**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34

RAL Sample #: 16539-12

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-3	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-3	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-3	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-3	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-3	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	MW-3	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-3	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-3	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-12

N/A = Not Applicable

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B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-4	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-4	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-4	7440-39-3	15	Barium	**61.8**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-4	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	MW-4	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-4	7440-47-3	51	Chromium	**6.84**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-4	7440-48-4	53	Cobalt	**5.64**	µg/L	J	EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-4	7440-50-8	54	Copper	**18.0**	µg/L		EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-4	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-4	7440-02-0	152	Nickel	**3.84**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-4	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-4	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-4	7440-62-2	209	Vanadium	**17.9**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-4	7440-66-6	213	Zinc	**32.6**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34

RAL Sample #: 16539-13

N/A = Not Applicable

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B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-4	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-4	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-4	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-4	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-4	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	MW-4	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-4	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-4	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-13

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-5	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-5	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-5	7440-39-3	15	Barium	**61.3**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-5	7440-41-7	23	Beryllium	**0.955**	µg/L	J	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	MW-5	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-5	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-5	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-5	7440-50-8	54	Copper	**4.80**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-5	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-5	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-5	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-5	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-5	7440-62-2	209	Vanadium	**5.68**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-5	7440-66-6	213	Zinc	**20.6**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34

RAL Sample #: 16539-11

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-5	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-5	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-5	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-5	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-5	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	MW-5	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-5	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-5	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-11

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-6	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-6	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-6	7440-39-3	15	Barium	**13.6**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-6	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	MW-6	744-43-9	34	Cadmium	**0.330**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-6	7440-47-3	51	Chromium	**3.42**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-6	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-6	7440-50-8	54	Copper	**3.42**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-6	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-6	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-6	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-6	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-6	7440-62-2	209	Vanadium	25	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-6	7440-66-6	213	Zinc	**19.3**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34

RAL Sample #: 16539-10

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-6	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-6	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-6	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-6	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-6	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	MW-6	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-6	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-6	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-10

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-7	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7	7440-39-3	15	Barium	**13.2**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	MW-7	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7	7440-47-3	51	Chromium	**2.04**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7	7440-48-4	53	Cobalt	**10.4**	µg/L		EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7	7440-50-8	54	Copper	**6.80**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7	7440-02-0	152	Nickel	**2.68**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7	7440-62-2	209	Vanadium	**7.92**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7	7440-66-6	213	Zinc	**18.8**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34

RAL Sample #: 16539-07

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-7	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-7	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-7	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-7	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-7	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	MW-7	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-7	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-07

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill																	
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-7D	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7D	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7D	7440-39-3	15	Barium	**6.66**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7D	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	MW-7D	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7D	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7D	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7D	7440-50-8	54	Copper	**3.69**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7D	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7D	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7D	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7D	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7D	7440-62-2	209	Vanadium	25	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-7D	7440-66-6	213	Zinc	**18.2**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34

RAL Sample #: 16539-08

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-7D	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-7D	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-08

N/A = Not Applicable

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B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill																	
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-8	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-8	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-8	7440-39-3	15	Barium	**93.2**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-8	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	MW-8	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-8	7440-47-3	51	Chromium	**19.8**	µg/L		EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-8	7440-48-4	53	Cobalt	**12.2**	µg/L		EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-8	7440-50-8	54	Copper	**31.3**	µg/L		EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-8	7439-92-1	131	Lead	**8.00**	µg/L	J	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-8	7440-02-0	152	Nickel	**10.9**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-8	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-8	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-8	7440-62-2	209	Vanadium	**46.3**	µg/L		EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-8	7440-66-6	213	Zinc	**91.8**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34

RAL Sample #: 16539-09

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-8	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-8	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-8	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-8	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-8	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	MW-8	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-8	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-8	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-09

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-9A	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-9A	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-9A	7440-39-3	15	Barium	**8.72**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-9A	7440-41-7	23	Beryllium	**1**	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	MW-9A	744-43-9	34	Cadmium	**0.410**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-9A	7440-47-3	51	Chromium	**16.6**	µg/L		EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-9A	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-9A	7440-50-8	54	Copper	**4.60**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-9A	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-9A	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-9A	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-9A	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-9A	7440-62-2	209	Vanadium	**10.4**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-9A	7440-66-6	213	Zinc	**21.6**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34

RAL Sample #: 16539-03

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-9A	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-9A	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-03

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill																	
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-10	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-10	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-10	7440-39-3	15	Barium	**4.12**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-10	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	MW-10	744-43-9	34	Cadmium	**0.310**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-10	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-10	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-10	7440-50-8	54	Copper	**3.20**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-10	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-10	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-10	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-10	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-10	7440-62-2	209	Vanadium	25	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-10	7440-66-6	213	Zinc	**16.9**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34

RAL Sample #: 16539-05

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-10	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-10	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-10	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-10	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-10	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	MW-10	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-10	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-10	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-05

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-11	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-11	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-11	7440-39-3	15	Barium	**8.15**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-11	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	MW-11	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-11	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-11	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-11	7440-50-8	54	Copper	**2.32**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-11	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-11	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-11	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-11	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-11	7440-62-2	209	Vanadium	**6.26**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/28/2016	34
	MW-11	7440-66-6	213	Zinc	**16.5**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/28/2016	34

RAL Sample #: 16539-16

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-11	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-11	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-11	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-11	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-11	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	MW-11	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-11	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-11	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-16

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill																	
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-12	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-12	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-12	7440-39-3	15	Barium	100	µg/L	U	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-12	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	MW-12	744-43-9	34	Cadmium	**0.420**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-12	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-12	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-12	7440-50-8	54	Copper	**3.24**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-12	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-12	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-12	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-12	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-12	7440-62-2	209	Vanadium	**5.48**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/25/2016	34
	MW-12	7440-66-6	213	Zinc	**16.5**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34

RAL Sample #: 16539-01

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	MW-12	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-12	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-12	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	MW-12	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-12	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	MW-12	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	MW-12	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	MW-12	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-01

N/A = Not Applicable

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B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	SW-1	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-1	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-1	7440-39-3	15	Barium	**25.0**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-1	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	SW-1	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-1	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-1	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-1	7440-50-8	54	Copper	**4.76**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-1	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-1	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-1	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-1	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-1	7440-62-2	209	Vanadium	25	µg/L	U	EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-1	7440-66-6	213	Zinc	**18.1**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34

RAL Sample #: 16539-06

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	SW-1	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	SW-1	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	SW-1	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	SW-1	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	SW-1	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	SW-1	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	SW-1	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-1	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-06

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	SW-2	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-2	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-2	7440-39-3	15	Barium	**23.6**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-2	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	SW-2	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-2	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-2	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-2	7440-50-8	54	Copper	**4.60**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-2	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-2	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-2	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-2	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-2	7440-62-2	209	Vanadium	**1.82**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/25/2016	34
	SW-2	7440-66-6	213	Zinc	**13.8**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34

RAL Sample #: 16539-14

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	SW-2	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	SW-2	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	SW-2	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	SW-2	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	SW-2	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	SW-2	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	SW-2	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	SW-2	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-14

N/A = Not Applicable

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B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	Leachate	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/21/2016	03/23/2016	03/25/2016	34
	Leachate	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	Leachate	7440-39-3	15	Barium	**56.4**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/21/2016	03/23/2016	03/25/2016	34
	Leachate	7440-41-7	23	Beryllium	**1**	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/21/2016	04/04/2016	04/05/2016	34
	Leachate	744-43-9	34	Cadmium	**1**	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/21/2016	03/23/2016	03/25/2016	34
	Leachate	7440-47-3	51	Chromium	**1.34**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	Leachate	7440-48-4	53	Cobalt	**1.82**	µg/L	J	EPA 200.7	1.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	Leachate	7440-50-8	54	Copper	**5.96**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	Leachate	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	Leachate	7440-02-0	152	Nickel	**12.3**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/21/2016	03/23/2016	03/25/2016	34
	Leachate	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	Leachate	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	Leachate	7440-62-2	209	Vanadium	**2.72**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/21/2016	03/23/2016	03/25/2016	34
	Leachate	7440-66-6	213	Zinc	**24.9**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/21/2016	03/23/2016	03/25/2016	34
	Leachate	SW316	316	BOD	**11,200**	µg/L		SM 5210 B-2001	2,000	2,000	NE	1	03/21/2016	N/A	03/23/2016	34
	Leachate	SW317	317	COD	**102,000**	µg/L		EPA 410.4	5,000	5,000	NE	1	03/21/2016	N/A	03/24/2016	34
	Leachate	SW303	303	Nitrate	**185**	µg/L		SM 4500 NO3 E-2000	50.0	50.0	NE	1	03/21/2016	N/A	03/22/2016	34
	Leachate	7723-14-0	N/A	Phosphorus	**61**	µg/L		SM 4500 PE-1999	50.0	50.0	NE	1	03/21/2016	N/A	03/30/2016	34
	Leachate	18496-25-8	187	Sulfate	**15,700**	µg/L		SM 4500 SO4 E-1997	1.7	10,000	NE	1	03/21/2016	N/A	04/01/2016	34

RAL Sample #: 16539-04

N/A = Not Applicable

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B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - Phase I Lined Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE	NC LABORATORY CERTIFICATION NUMBER
	Leachate	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/21/2016	N/A	03/29/2016	34
	Leachate	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	Leachate	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/21/2016	N/A	03/29/2016	34
	Leachate	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	Leachate	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/21/2016	N/A	03/29/2016	34
	Leachate	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/21/2016	N/A	03/29/2016	34
	Leachate	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	µg/L	U	SW846 8260B	0.5	1.0	13.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/21/2016	N/A	03/29/2016	34
	Leachate	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/21/2016	N/A	03/29/2016	34

RAL Sample #: 16539-04

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC)				FILE NAME: WQC0328				
CLIENT: PILOT ENVIROMENTAL (PROJECT: PHASE I, LINED LANDFILL : # 1760)								
Sample ID:	16539 – 01 – 10				INSTUMENT: MS-2			Page 1 of 2
Extraction Method	N/A							
Date Extracted	N/A							
Weight Extracted	25ML							
Final Extract Volume	25ML							
Date Analyzed	03/28/16							
% Surrogate Recovery	105	109	97					
Acceptance Range	(70-130)	(70-130)	(70-130)					
					MS	MSD		QC LIMITS
Compound	MDL ug/L	Method Blank	LCS % Recovery	108.2	% Rec.	% Rec.	RPD	RPD / % REC
DICHLORODIFLUOROMETHANE	0.12	ND	104	70-130				
CHLOROMETHANE	0.07	ND	101	70-130				
VINYL CHLORIDE	0.11	ND	109	70-130				
BROMOMETHANE	0.18	ND	95	70-130				
CHLOROETHANE	0.11	ND	128	70-130				
TRICHLOROFLUOROMETHANE	0.09	ND	111	70-130				
ACETONE	1.18	ND	79	70-130				
ACRYLONITRILE	12.38	ND	113	70-130				
2-BUTANONE	0.88	ND	89	70-130				
1,1-DICHLOROETHENE	0.09	ND	107	70-130	86	88	3	14 / 70-130
METHYL IODIDE	0.19	ND	108	70-130				
CARBON DISULFIDE	0.45	ND	108	70-130				
METHYLENE CHLORIDE	0.57	ND	109	70-130				
TRANS-1,2-DICHLOROETHENE	0.10	ND	105	70-130				
1,1-DICHLOROETHANE	0.17	ND	110	70-130				
ISOPROPYL ETHER(IPE)	0.12	ND	104	70-130				
METHYL-TERT-BUTYL ETHER(MTBE)	0.16	ND	85	70-130				
VINYL ACETATE	0.24	ND	89	70-130				
CIS-1,2-DICHLOROETHENE	0.09	ND	100	70-130				
2,2-DICHLOROPROPANE	0.09	ND	87	70-130				
BROMOCHLOROMETHANE	0.12	ND	111	70-130				
CHLOROFORM	0.05	ND	105	70-130				
1,1,1-TRICHLOROETHANE	0.12	ND	109	70-130				
CARBON TETRACHLORIDE	0.10	ND	109	70-130				
1,1-DICHLOROPROPENE	0.12	ND	105	70-130				
BENZENE	0.05	ND	106	70-130	90	90	0	11 / 70-130
ETHYL ACETATE	0.35	ND	89	70-130				
1,2-DICHLOROETHANE	0.09	ND	99	70-130				
TRICHLOROETHENE(TCE)	0.12	ND	103	70-130	88	87	0	14 / 70-130
1,2-DICHLOROPROPANE	0.10	ND	113	70-130				
DIBROMOETHANE	0.25	ND	114	70-130				

COMMENTS:

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC) | **FILE NAME: WQC0328** |

CLIENT: PILOT ENVIROMENTAL (PROJECT: PHASE I, LINED LANDFILL : # 1760)

SAMPLE ID:	16539 – 01 – 10			LCS Acceptr ange	MS	MSD	RPD	QC LIMITS	
Compound	MDL ug/L	Method Blank	LCS % Recovery		% Rec.	% Rec.		RPD	% REC
BROMODICHLOROMETHANE	0.07	ND	112	70-130					
4-METHYL-2-PENTANONE	1.01	ND	123	70-130					
CIS-1,3-DICHLOROPROPENE	0.10	ND	101	70-130					
TOLUENE	0.26	ND	114	70-130	88	84	5	13	70-130
TRANS-1,3-DICHLOROPROPENE	0.12	ND	108	70-130					
1,1,2-TRICHLOROETHANE	0.20	ND	112	70-130					
TETRACHLOROETHENE(PCE)	0.17	ND	113	70-130					
2-HEXANONE	1.42	ND	98	70-130					
DIBROMOCHLOROMETHANE	0.07	ND	110	70-130					
1,3-DICHLOROPROPANE	0.13	ND	108	70-130					
1,2-DIBROMOETHANE(EDB)	0.15	ND	109	70-130					
CHLOROBENZENE	0.10	ND	112	70-130	88	86	3	13	70-130
1,1,1,2-TETRACHLOROETHANE	0.10	ND	107	70-130					
ETHYLBENZENE	0.07	ND	107	70-130					
TOTAL XYLENES(M&P, O)	0.29	ND	109	70-130					
STYRENE	0.04	ND	108	70-130					
BROMOFORM	0.29	ND	102	70-130					
ISOPROPYLBENZENE	0.08	ND	109	70-130					
BROMOBENZENE	0.07	ND	113	70-130					
1,2,3-TRICHLOROPROPANE	0.11	ND	102	70-130					
TRANS-1,4-DICHLORO-2-BUTENE	0.52	ND	101	70-130					
N-PROPYLBENZENE	0.08	ND	112	70-130					
2-CHLOROTOLUENE	0.10	ND	112	70-130					
4-CHLOROTOLUENE	0.09	ND	105	70-130					
1,3,5-TRIMETHYLBENZENE	0.07	ND	107	70-130					
TERT-BUTYLBENZENE	0.08	ND	112	70-130					
1,2,4-TRIMETHYLBENZENE	0.07	ND	109	70-130					
SEC-BUTYLBENZENE	0.12	ND	109	70-130					
1,3-DICHLOROBENZENE	0.12	ND	107	70-130					
1,1,2,2-TETRACHLOROETHANE	0.08	ND	117	70-130					
P-ISOPROPYLTOLUENE	0.09	ND	108	70-130					
1,4-DICHLOROBENZENE	0.08	ND	110	70-130					
1,2-DICHLOROBENZENE	0.09	ND	110	70-130					
N-BUTYLBENZENE	0.10	ND	111	70-130					
1,2-DIBROMO-3-CHLOROPROPANE(DPCP)	0.49	ND	101	70-130					
1,2,4-TRICHLOROBENZENE	0.47	ND	106	70-130					
NAPHTHALENE	0.18	ND	107	70-130					
1,2,3-TRICHLOROBENZENE	0.18	ND	106	70-130					

COMMENTS:

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC)				FILE NAME: WLC0329				
CLIENT: PILOT ENVIROMENTAL (PROJECT: PHASE I, LINED LANDFILL : # 1760)								
Sample ID:	16539 – 10 – 16				INSTUMENT: MS-2			Page 1 of 2
Extraction Method	N/A							
Date Extracted	N/A							
Weight Extracted	25ML							
Final Extract Volume	25ML							
Date Analyzed	03/29/16							
% Surrogate Recovery	97	98	91					
Acceptance Range	(70-130)	(70-130)	(70-130)					
				108.2	MS	MSD	RPD	QC LIMITS
Compound	MDL ug/L	Method Blank	LCS % Recovery		% Rec.	% Rec.		RPD / % REC
DICHLORODIFLUOROMETHANE	0.12	ND	97	70-130				
CHLOROMETHANE	0.07	ND	89	70-130				
VINYL CHLORIDE	0.11	ND	96	70-130				
BROMOMETHANE	0.18	ND	99	70-130				
CHLOROETHANE	0.11	ND	115	70-130				
TRICHLOROFLUOROMETHANE	0.09	ND	105	70-130				
ACETONE	1.18	ND	89	70-130				
ACRYLONITRILE	12.38	ND	92	70-130				
2-BUTANONE	0.88	ND	90	70-130				
1,1-DICHLOROETHENE	0.09	ND	94	70-130	85	82	4	14 / 70-130
METHYL IODIDE	0.19	ND	98	70-130				
CARBON DISULFIDE	0.45	ND	99	70-130				
METHYLENE CHLORIDE	0.57	ND	91	70-130				
TRANS-1,2-DICHLOROETHENE	0.10	ND	96	70-130				
1,1-DICHLOROETHANE	0.17	ND	95	70-130				
ISOPROPYL ETHER(IPE)	0.12	ND	93	70-130				
METHYL-TERT-BUTYL ETHER(MTBE)	0.16	ND	74	70-130				
VINYL ACETATE	0.24	ND	90	70-130				
CIS-1,2-DICHLOROETHENE	0.09	ND	97	70-130				
2,2-DICHLOROPROPANE	0.09	ND	97	70-130				
BROMOCHLOROMETHANE	0.12	ND	96	70-130				
CHLOROFORM	0.05	ND	98	70-130				
1,1,1-TRICHLOROETHANE	0.12	ND	100	70-130				
CARBON TETRACHLORIDE	0.10	ND	98	70-130				
1,1-DICHLOROPROPENE	0.12	ND	101	70-130				
BENZENE	0.05	ND	112	70-130	90	87	3	11 / 70-130
ETHYL ACETATE	0.35	ND	90	70-130				
1,2-DICHLOROETHANE	0.09	ND	106	70-130				
TRICHLOROETHENE(TCE)	0.12	ND	100	70-130	91	87	4	14 / 70-130
1,2-DICHLOROPROPANE	0.10	ND	97	70-130				
DIBROMOETHANE	0.25	ND	91	70-130				

COMMENTS:

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC) | **FILE NAME: WLC0329** |

CLIENT: PILOT ENVIROMENTAL (PROJECT: PHASE I, LINED LANDFILL : # 1760)

SAMPLE ID:	16539 – 10 – 16			LCS Acceptr ange	MS	MSD	RPD	QC LIMITS	
Compound	MDL ug/L	Method Blank	LCS % Recovery		% Rec.	% Rec.		RPD	% REC
BROMODICHLOROMETHANE	0.07	ND	97	70-130					
4-METHYL-2-PENTANONE	1.01	ND	92	70-130					
CIS-1,3-DICHLOROPROPENE	0.10	ND	97	70-130					
TOLUENE	0.26	ND	100	70-130	88	85	3	13	70-130
TRANS-1,3-DICHLOROPROPENE	0.12	ND	91	70-130					
1,1,2-TRICHLOROETHANE	0.20	ND	92	70-130					
TETRACHLOROETHENE(PCE)	0.17	ND	99	70-130					
2-HEXANONE	1.42	ND	88	70-130					
DIBROMOCHLOROMETHANE	0.07	ND	93	70-130					
1,3-DICHLOROPROPANE	0.13	ND	95	70-130					
1,2-DIBROMOETHANE(EDB)	0.15	ND	91	70-130					
CHLOROBENZENE	0.10	ND	103	70-130	94	90	4	13	70-130
1,1,1,2-TETRACHLOROETHANE	0.10	ND	97	70-130					
ETHYLBENZENE	0.07	ND	105	70-130					
TOTAL XYLENES(M&P, O)	0.29	ND	105	70-130					
STYRENE	0.04	ND	98	70-130					
BROMOFORM	0.29	ND	93	70-130					
ISOPROPYLBENZENE	0.08	ND	106	70-130					
BROMOBENZENE	0.07	ND	104	70-130					
1,2,3-TRICHLOROPROPANE	0.11	ND	103	70-130					
TRANS-1,4-DICHLORO-2-BUTENE	0.52	ND	100	70-130					
N-PROPYLBENZENE	0.08	ND	107	70-130					
2-CHLOROTOLUENE	0.10	ND	107	70-130					
4-CHLOROTOLUENE	0.09	ND	100	70-130					
1,3,5-TRIMETHYLBENZENE	0.07	ND	102	70-130					
TERT-BUTYLBENZENE	0.08	ND	108	70-130					
1,2,4-TRIMETHYLBENZENE	0.07	ND	101	70-130					
SEC-BUTYLBENZENE	0.12	ND	104	70-130					
1,3-DICHLOROBENZENE	0.12	ND	99	70-130					
1,1,2,2-TETRACHLOROETHANE	0.08	ND	103	70-130					
P-ISOPROPYLTOLUENE	0.09	ND	115	70-130					
1,4-DICHLOROBENZENE	0.08	ND	103	70-130					
1,2-DICHLOROBENZENE	0.09	ND	105	70-130					
N-BUTYLBENZENE	0.10	ND	117	70-130					
1,2-DIBROMO-3-CHLOROPROPANE(DPCP)	0.49	ND	95	70-130					
1,2,4-TRICHLOROBENZENE	0.47	ND	105	70-130					
NAPHTHALENE	0.18	ND	104	70-130					
1,2,3-TRICHLOROBENZENE	0.18	ND	102	70-130					

COMMENTS:

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS SIDNEY L. CHAMPION NC #94 DIRECTOR CERTIFIED ANALYSIS

Quality Control Summary Results for Project Identified as Phase I Lined Landfill (A Pilot Environmental Project, 21 March 2016)

Inorganics Parameter	Prep. Blank (µg/L)	ICV Recovery %	CCV Recovery %	LCS Recovery %	Spike Recovery %	% Difference
Antimony	BDL	102	102 103 98 100	91	100	<1
Arsenic	BDL	102	103 103 98 101	87	102	<1
Barium	BDL	107	99 98 96 100	88	96	<1
Beryllium	BDL	105	99 96 108	104	104	2
Cadmium	BDL	102	101 101 96 101	92	97	<1
Cobalt	BDL	108	104 104 100 102	86	95	<1
Copper	BDL	106	102 102 99 97	87	93	<1
Chromium	BDL	102	97 96 95 100	96	102	<1
Iron	BDL	106	98 97 96 97	87	94	<1
Manganese	BDL	110	102 102 100 102	85	100	<1
Lead	BDL	110	102 101 98 101	85	94	<1
Nickel	BDL	108	102 103 98 103	85	95	<1
Selenium	BDL	100	102 101 97 102	94	98	<1
Silver	BDL	104	100 102 101 100	92	100	<1
Vanadium	BDL	101	100 100 98 97	87	98	<1
Zinc	BDL	106	104 103 101 104	90	98	<1

COMMENTS: 16539-01-16

% = Percent

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

LCS = Laboratory Control Sample

N/A = Not Available

*** Post Spike**

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Quality Control Summary Results for Project Identified as Phase I Lined Landfill (A Pilot Environmental Project, 21 March 2016)

Inorganics Parameter	Prep. Blank (µg/L)	ICV Recovery %	CCV Recovery %	LCS Recovery %	Spike Recovery %	% Difference
BOD	BDL	94	N/A	N/A	N/A	2
COD	BDL	95	95	95	104	5
Nitate-Nitrogen	BDL	101	98	98	97	1
Phosphorus	BDL	109	105	103	102	<1
Sulfate	BDL	100	99	100	100	<1

COMMENTS: 16539-04
% = Percent
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
LCS = Laboratory Control Sample
N/A = Not Available

*** Post Spike**

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

COMPANY: DEI
JOB NO.: 1760
STREET ADDRESS: 743 Parklawn Ct
PROJECT: Phase I Lined Landfill
CITY, STATE, ZIP: Kernersville NC
SAMPLER NAME (PLEASE PRINT): Toby S. Bergold
CONTACT: Toby Bergold
PHONE:
SAMPLER SIGNATURE:

WATER / WASTEWATER | MISC.

SAMPLE NUMBER (LAB USE ONLY)	DATE	TIME	COMP	GRAB	TEMP °C	RES Cl (mg/L)	CHLORINE REMOVED (Y or N)	SAMPLE MATRIX (S or W)	SAMPLE LOCATION / I.D.	NO. OF CONTAINERS	2L G (BNA, Herb. / Pest.)	2 40ml Vials (VOA) HCL	250ml G (TOX)	250ml P (TOC) H_2SO_4	1L P, G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease) H_2SO_4	1L P, G (COD, N, P) H_2SO_4	1L P, G (Metals, Hardness) HNO_3	1L P, G (CYANIDE) NaOH	Sterile P, G (Coliform)				REQUESTED ANALYSIS
160539-01	3-22-16	9:00							MW-12	4														8260B / Metals 200.7 /
02	3-22-16	9:50							MW-2	5														
03		10:50							MW-9A	1														
04		10:45							Leachate	8														8260 / 200.7 / BOD COD Nitrate phosphorus & sulfate
05		11:50							MW-10	5														8260 Metals 200.7
06		12:00							SW-1															
07		12:50							MW-7															
08		12:40							MW-7D															
09		13:10							MW-8															
10		13:45							MW-6															
11		14:30							MW-5															
12		14:45							MW-3 *															
13		15:00							MW-4															
14		15:10							SW-2															
15		15:30							MW-15															
16		16:05							MW-11															

RELINQUISHED BY	DATE/TIME	RECEIVED BY
	3-22-16 8:30	
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS:
* MW-3 ~~[illegible]~~ very High turbidity.

*metals - See attached

SAMPLE TEMPERATURE AT RECEIPT 2.1 °C

OnIce

Research & Analytical Laboratories, Inc.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

COMPANY: NET
JOB NO.: 1760
STREET ADDRESS: 743 Perkins Ct
PROJECT: Phase I Lined Landfill
CITY, STATE, ZIP: Kernersville NC
SAMPLER NAME (PLEASE PRINT): Toby S. Bassett
CONTACT: Toby Bassett
PHONE:
SAMPLER SIGNATURE:

WATER / WASTEWATER | MISC.

SAMPLE NUMBER (LAB USE ONLY)	DATE	TIME	COMP	GRAB	TEMP °C	RES Cl (mg/L)	CHLORINE REMOVED (Y or N)	SAMPLE MATRIX (S or W)	SAMPLE LOCATION / I.D.	NO. OF CONTAINERS	2L G (BNA, Herb. / Pest.)	2 40ml Vials (VOA) HCL	250ml G (TOX)	250ml P (TOC) H_2SO_4	1L P, G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease) H_2SO_4	1L P, G (COD, N, P) H_2SO_4	1L P, G (Metals, Hardness) HNO_3	1L P, G (CYANIDE) NaOH	Sterile P, G (Coliform)	REQUESTED ANALYSIS
160539-01	3-21	900							MW-12	4											8260B / Metals 200.7 /
02	3-21	900							MW-2	5											
03		1050							MW-9A	4											
04		1045							Leachate	8											8260 / 200.7 / BOD COD Nitrate phosphorus & Sulfate
05		1150							MW-10	5											8260 Metals 200.7
06		1200							SW-1												
07		1250							MW-7												
08		1240							MW-7D												
09		1310							MW-8												
10		1345							MW-6												
11		1430							MW-5												
12		1445							MW-3 *												
13		1500							MW-4												
14		1510							SW-2												
15		1530							MW-15												
16		1605							MW-11												

RELINQUISHED BY	DATE/TIME	RECEIVED BY
	3-22-16 8:30	
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS:
* MW-3 ~~[illegible]~~ very High turbidity.

*metals - see attached

SAMPLE TEMPERATURE AT RECEIPT 2.1 °C

omw