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 Construction and Demolition Debris Landfill	1242 Old Highway 29, Thomasville, North Carolina, 27360	29-06	0.0500	March 22, 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. Principal Engineer 919-800-9093

Facility Representative Name (Print) Title (Area Code) Telephone Number

05/18/2016 Affix NC Licensed Professional Geologist Seal

Signature Date

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 CONSTRUCTION AND DEMOLITION DEBRIS 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. 1761

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 Construction and Demolition Debris Landfill
Lexington, North Carolina
North Carolina Solid Waste Permit Number 29-06
PEI Project 1761

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 License No. 035138

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

Davidson County Construction and Demolition Debris Landfill
NC Solid Waste Permit No 29-06
March 2016 Groundwater Monitoring Report

1.0 INTRODUCTION 1
2.0 SITE GEOLOGY 1
3.0 SAMPLING LOCATIONS.....1
4.0 SAMPLING PROCEDURES.....2
5.0 RESULTS 2
5.1 FIELD RESULTS 2
5.2 LABORATORY ANALYSIS.....2
5.2.1 Inorganic Constituents.....3
5.2.2 Organic Constituents 3
6.0 STATISTICAL ANALYSIS
Error! Bookmark not defined.
7.0 GROUNDWATER CHARACTERIZATON 3
8.0 CONCLUSIONS 3
9.0 QUALIFICATIONS OF REPORT.....3

DRAWINGS
Drawing 1 Potentiometric Surface Map

TABLES
Table 1 Groundwater Elevations
Table 2 Field Parameters
Table 3 Summary of Analytical Results

APPENDIX
Appendix A Monitoring Well Logs
Appendix B Laboratory Data Sheets and Chain of Custody Documents

1.0 INTRODUCTION

Pilot Environmental, Inc. (PEI) was contracted by Davidson County to conduct semi-annual groundwater monitoring at the Davidson County Construction and Demolition Debris (C&D) Landfill, permit number 29-06 as required by 15A NCAC 13B .0500. Sampling was conducted on March 22, 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 Construction and Demolition Debris (C&D) 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 sampling for the Davidson County C&D Landfill includes five monitoring wells (CDMW-2, CDMW-3, CDMW-5, CDMW-6 and CDMW-7). The upgradient well for the C&D Landfill is MW-1S associated with the Phase I Lined Landfill. Surface water sample locations have not been established for this facility. 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 site's Sampling and Analysis 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.

Monitoring wells 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 C&D metals, Volatile Organic Compounds (VOCs) using EPA Method 8260B and C&D parameters including alkalinity, total dissolved solids, chloride and sulfate by approved Solid Waste Section (SWS) 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).

5.2.1 Inorganic Constituents

Laboratory analysis detected two low solubility metal analytes including iron (CDMW-2, CDMW-3 and CDMW-6) and manganese (CDMW-3 and CDMW-6) at concentrations above their respective NC 2L Standards. Total dissolved residue was detected at a concentration above the NC 2L Standard in monitoring well CDMW-3. Non-quantifiable ("J-value") concentrations of vanadium were detected above the GWP Standard in monitoring wells CDMW-2, CDMW-3, CDMW-5, CDMW-6 and CDMW-7. 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 reporting limits. A summary of laboratory analytical results is provided in Table 3.

Tetrahydrofuran (THF) was detected at a concentration above the MDL in monitoring wells CDMW-3 and CDMW-7. There is no established 2L Standard or MCL for this constituent.

6.0 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, the groundwater flow direction was determined to be to the northwest, consistent with historic groundwater flow patterns at the site. The potentiometric surface is shown on Drawing 1.

7.0 CONCLUSIONS

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

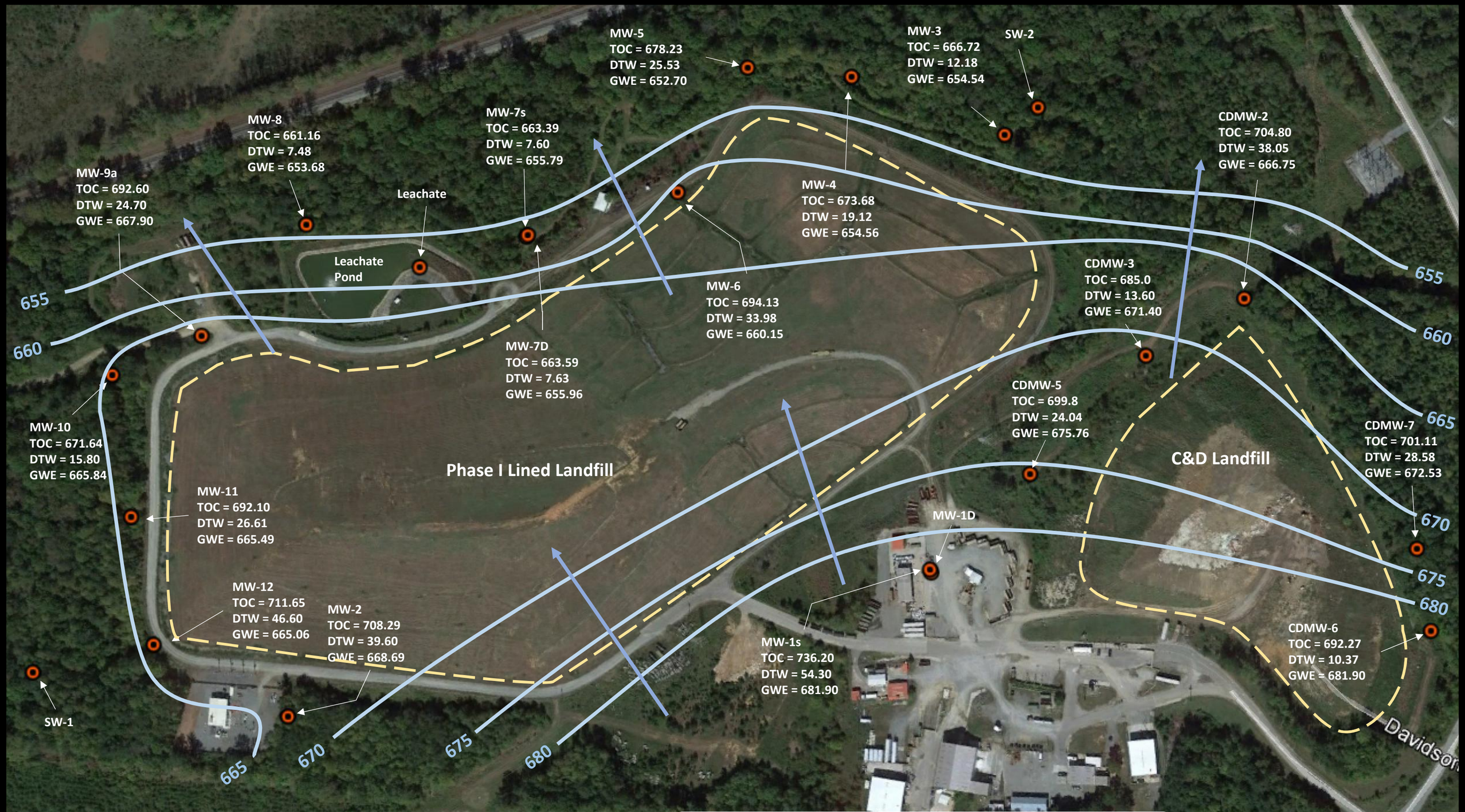
Laboratory analysis detected iron and manganese at concentrations above their respective 2L Standards. The analytical results for the C&D Landfill are consistent with historic detections. Concentrations detected are likely due to variations in naturally occurring constituents and are not indicative of groundwater impact from the landfill.

8.0 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 exclusive 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

N

Potentiometric Surface Map

Davidson County C&D Landfill
Lexington, Davidson County,
North Carolina
PEI Project 1761

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 Analytical Results

TABLE 1
Groundwater Elevations
Davidson County C&D Landfill
March 22, 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
CDMW-2	7/16/1998	35.84298	80.17524	2.0	51.0	702.27	704.80	38.05	666.75	41.0-51.0	granite
CDMW-3	12/5/2000	35.84273	80.17615	2.0	27.0	681.02	685.00	13.60	671.40	17.0-27.0	clayey sand and PWR
CDMW-5	1/30/2006	35.84212	80.17707	2.0	47.0	696.79	699.80	24.04	675.76	32.0-47.0	granite
CDMW-6	11/15/2010	35.84076	80.17423	2.0	23.0	689.84	692.27	10.37	681.90	13.0-23.0	PWR
CDMW-7	11/15/2010	35.84128	80.17424	2.0	45.0	698.56	701.11	28.58	672.53	35.0-45.0	silt and granite

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

TABLE 2
Field Parameters
Davidson County C&D Landfill
March 22, 2016

Monitoring Well	pH (Standard Units)	Conductivity (umhos)	Temperature (celsius)	Turbity (NTU)
CDMW-2	6.21	109	19.1	7.83
CDMW-3	6.03	155	17.7	31.34
CDMW-5	6.38	204	19.1	1.56
CDMW-6	5.65	367	18.2	47.28
CDMW-7	6.33	463	19.5	5.27

Notes:

TABLE 3
Summary of Analytical Results
Davidson County Phase I Lined Landfill
March 22, 2016

Parameter	GROUNDWATER SAMPLING					Comparison Criteria				
Sample ID	CDMW-2	CDMW-3	CDMW-5	CDMW-6	CDMW-7	MDL	MRL	SWSL	2L or GWP Standard	MCL
Volatile Organic Compounds										
1,1-dichloroethane	BDL	0.46J	BDL	BDL	BDL	0.2	0.5	5	6	5
benzene	BDL	0.30J	BDL	BDL	BDL	0.1	0.5	1	1	5
cis-1,2-dichloroethene	BDL	0.11J	BDL	BDL	BDL	0.1	0.5	5	70	70
tetrahydrofuran	BDL	44.7	BDL	BDL	3.1	5	5	NE	NE	NE
Inorganic Consituents										
total alkalinity	29,400	236,000	68,400	41,800	148,000	1,000	1,000	NE	NE	NE
chloride	3,740	54,300	43,000	15,000	18,700	1,000	1,000	NE	250,000	250,000
total dissolved residue	213,000	**606,000**	286,000	264,000	290	25,000	25,000	NE	500,000	500,000
sulfate	51,400	99,300	47,600	91,500	62,400	1.7	10,000	250,000	250,000	250,000
antimony	BDL	BDL	BDL	BDL	BDL	1.9	5	6	1#	6
arsenic	BDL	BDL	BDL	BDL	BDL	2.4	10	10	10	10
barium	47.5J	208	56.3J	10.7J	5.90J	1.3	40	100	700	2,000
beryllium	BDL	BDL	BDL	BDL	0.975J	0.4	1	1	4#	4
cadmium	BDL	0.300J	BDL	BDL	BDL	0.3	1	1	2	5
cobalt	BDL	BDL	BDL	**3.25J**	BDL	1.5	10	10	1#	NE
copper	2.65J	5.53J	3.56J	BDL	1.46J	1.1	10	10	1,000	1,300
chromium (total)	3.74J	BDL	BDL	BDL	BDL	1.3	10	10	10	100
iron	**376**	**1,130**	BDL	**1,580**	188J	15.4	50	300	300	300
manganese	12	**150**	23.2J	**94.8**	8.59J	1.6	10	50	50	50
lead	BDL	BDL	BDL	BDL	BDL	1.7	5	10	15	15
nickel	BDL	10.5J	2.98J	7.58J	1.84J	1.7	10	50	100	NE
selenium	BDL	BDL	BDL	BDL	BDL	2.5	10	10	20	50
silver	BDL	BDL	BDL	BDL	BDL	2.8	10	10	20	100
vanadium	2.35J	5.82J	3.74J	4.78J	6.67J	1.8	10	25	0.3#	NE
zinc	22	17.9	21.6	21.8	14.4	2.9	10	10	1,000	5,000

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 MRL
Bold denotes concentration exceeds the 2L Standard
J = Estimated concentration detected at concentration between the MDL and SWSL

APPENDIX

Laboratory Data Sheets and Chain of Custody Documents

CDMW-2

FIELD BOREHOLE LOG

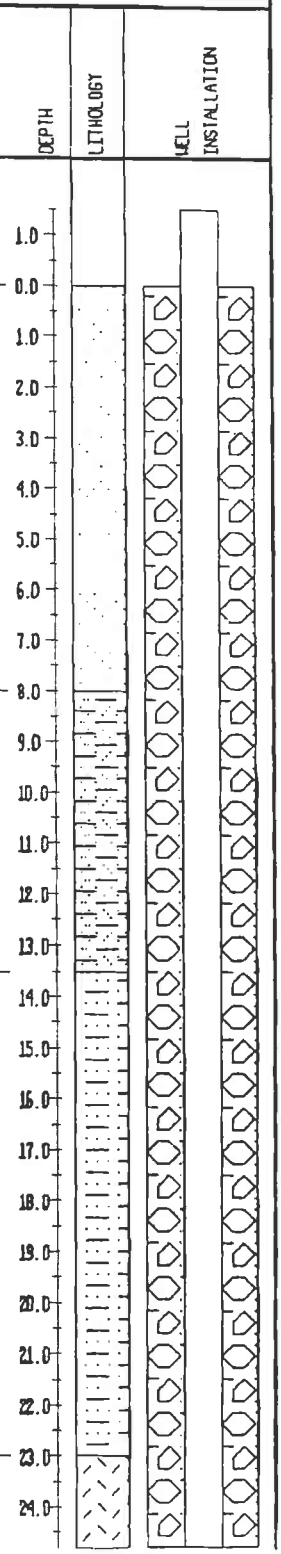
BOREHOLE NUMBER: B-6

PROJECT NUMBER: Davdco-14
PROJECT NAME: Davidson County Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-50
DRILLING METHOD: Hollow Stem/Air Rotary/Hammer
WEATHER: Sunny, 95 DEGREES
FIELD PARTY: R. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/16/98 DATE COMPLETED: 7/16/98

TOP OF CASING ELEVATION: TBD
TOTAL DEPTH: 51.0 FT
GROUND SURFACE ELEVATION: TBD
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	DRILL METHOD	LITHOLOGY DESCRIPTION
0.0							AR	SAND: Tan orange fine to medium with some coarse sand mottled with iron and manganese, SP.
3.0–4.0	10 15 18	Ss	S1					
8.0–9.0	17 26 34	Ss	S2					SILTY SAND: Mottled fine to medium with some coarse silty sand. Tan orange matrix with gray black and white mottling, ML.
13.0–14.0	50/5	Ss	S3					SANDY SILT: Tan and gray sandy silt partially weathered rock. ML. Air rotary refusal at 23 feet below grade.
18.0–19.0	50/4	Ss	S4					
23.0							AH	GRANITE: Tan and gray granite. Dry.



CDMW-2

FIELD BOREHOLE LOG

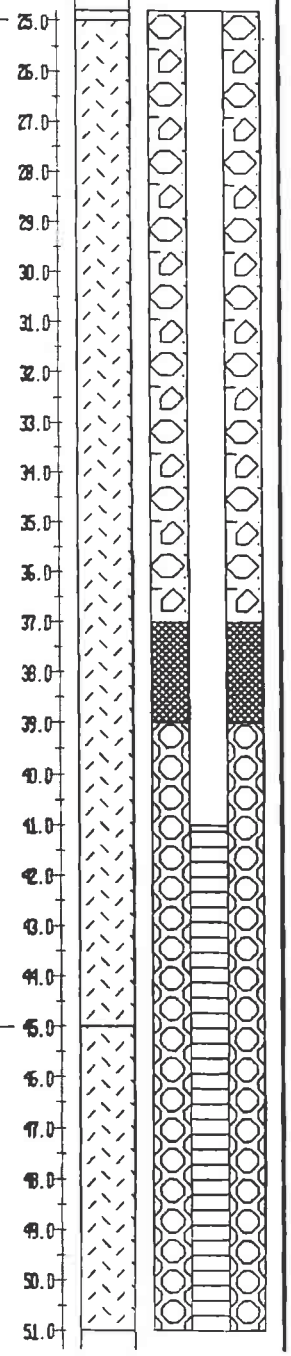
BOREHOLE NUMBER: B-6

PROJECT NUMBER: Davdco-14
PROJECT NAME: Davidson County Landfill
LOCATION: Lexington, North Carolina
DRILLING COMPANY: Engineering Tectonics
RIG TYPE & NUMBER: MOBILE B-50
DRILLING METHOD: Hollow Stem/Air Rotary/Hammer
WEATHER: Sunny, 95 DEGREES
FIELD PARTY: R. Barron
GEOLOGIST: P. May
DATE BEGUN: 7/15/98 DATE COMPLETED: 7/15/98

TOP OF CASING ELEVATION: TBD
TOTAL DEPTH: 51.0 FT
GROUND SURFACE ELEVATION: TBD
SHEET: 2 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	DRILL METHOD	LITHOLOGY DESCRIPTION
25.0								GRANITE: Tan and gray granite. Dry.
26.0								
27.0								
28.0		G	S5					
29.0								
30.0								
31.0								
32.0								
33.0		G	S6					
34.0								
35.0								
36.0								
37.0								
38.0		G	S7					
39.0								
40.0								
41.0								
42.0								
43.0		G	S8					
44.0								
45.0								GRANITE: Gray and tan granite. Darker than above. Water seam at 51 feet. Boring terminated.
46.0								
47.0								
48.0		G	S9					
49.0								
50.0								
51.0								



G. N. Richardson & Associates, Inc.
14 North Boylan Avenue, Raleigh NC 27603
(919) 828-0577

FIELD BOREHOLE LOG

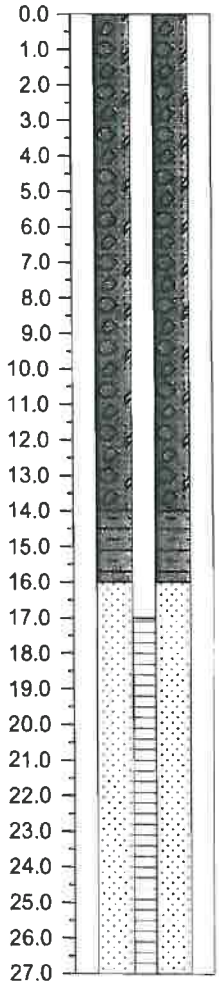
BOREHOLE NUMBER **CDMW-3**

PROJECT NAME: **Davidson County C&D Landfill**
LOACATION: **Lexington, NC**
DRILLING CO: **Engineering Tectonics, P.A.**
DRILLING METHOD: **HSA**
FIELD PARTY: **R. Barron**
GEOLOGIST: **P. May**
DATE BEGUN: **12/5/00** COMPLETED: **12/5/00**

TOTAL DEPTH: **27**
GROUND SURFACE ELEVATION: **NA**
TOP OF CASING ELEVATION:

STATIC WATER LEVEL (BLS)		
Depth (ft)	22.0	15.93
Time	16:00	08:00
Date	12/5/00	12/6/00

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
0.0				HSA	SANDY SILT: Dry, tan & rust & gray fine sandy silt, some mica & manganese.		0.0	
1.0							1.0	
2.0							2.0	
3.0							3.0	
4.0							4.0	
5.0	13,12,19	SS	16"				5.0	
6.0							6.0	
7.0							7.0	
8.0							8.0	
9.0							9.0	
10.0	13,16,24	SS	12"		CLAYEY SAND: Moist, tan & white & rust mottled medium to coarse clayey sand, large quartz fragments.		10.0	
11.0							11.0	
12.0							12.0	
13.0							13.0	
14.0							14.0	
15.0	18,32,36	SS	12"		CLAYEY SAND: Same as above but medium sand with PWR and Fe/Mn streaking throughout.		15.0	
16.0							16.0	
17.0							17.0	
18.0							18.0	
19.0							19.0	
20.0	50/6"	SS	4"				20.0	
21.0							21.0	
22.0				AR	PWR: Partially weathered diorite. Auger refusal at 22.0'. Air rotary to 27.0' through PWR to competent diorite. Boring terminated at 27'.		22.0	
23.0							23.0	
24.0							24.0	
25.0	50/0"	SS	0"				25.0	
26.0							26.0	
27.0							27.0	



G. N. Richardson & Associates, Inc.
14 North Boylan Avenue, Raleigh NC 27603
(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER **CDMW-5**

PROJECT NAME: **Davidson County C&D Landfill**
LOACATION: **Lexington, NC**
DRILLING CO: **Engineering Tectonics, P.A.**
DRILLING METHOD: **AR/AH**
FIELD PARTY: **R. Barron**
GEOLOGIST: **J. Smyth**
DATE BEGUN: **1/30/06** COMPLETED: **1/30/06**

TOTAL DEPTH: **47**
GROUND SURFACE ELEVATION: **NA**
TOP OF CASING ELEVATION:

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

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
0.0				AR	SANDY CLAY: Clayey F-C sand, well weatherd granite saprolite, dry.		0.0	
1.0							1.0	
2.0							2.0	
3.0							3.0	
4.0							4.0	
5.0	6,15,28	SS	12"				5.0	
6.0							6.0	
7.0							7.0	
8.0							8.0	
9.0							9.0	
10.0	35,50/5"	SS	8"				10.0	
11.0		Grab		AH	GRANITE: Weathered granite, dry.		11.0	
12.0							12.0	
13.0							13.0	
14.0							14.0	
15.0							15.0	
16.0		Grab					16.0	
17.0							17.0	
18.0							18.0	
19.0							19.0	
20.0							20.0	
21.0		Grab					21.0	
22.0							22.0	
23.0							23.0	
24.0							24.0	
25.0							25.0	
26.0		Grab					26.0	
27.0							27.0	
28.0							28.0	
29.0							29.0	
30.0							30.0	

G. N. Richardson & Associates, Inc.
14 North Boylan Avenue, Raleigh NC 27603
(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER **CDMW-5**

PROJECT NAME: **Davidson County C&D Landfill**
LOACATION: **Lexington, NC**
DRILLING CO: **Engineering Tectonics, P.A.**
DRILLING METHOD: **AR/AH**
FIELD PARTY: **R. Barron**
GEOLOGIST: **J. Smyth**
DATE BEGUN: **1/30/06** COMPLETED: **1/30/06**

TOTAL DEPTH: **47**
GROUND SURFACE ELEVATION: **NA**
TOP OF CASING ELEVATION:

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

DEPTH	BLOW COUNT	SAMPLING METHOD	RECOVERY	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH	WELL INSTALLATION
30.0							30.0	
31.0		Grab			GRANITE: Weathered granite to 33' where an approx. 1' moist seam was located (finer cuttings). Harder drilling begins at 38' where rock chips no longer have pink hue. Larger rock cuttings, with moisture, appear at 45'. BT at 47'		31.0	
32.0							32.0	
33.0							33.0	
34.0							34.0	
35.0							35.0	
36.0		Grab					36.0	
37.0							37.0	
38.0							38.0	
39.0							39.0	
40.0							40.0	
41.0		Grab					41.0	
42.0							42.0	
43.0							43.0	
44.0							44.0	
45.0							45.0	
46.0		Grab					46.0	
47.0							47.0	

Smith Gardner, Inc.
14 North Boylan Avenue, Raleigh NC 27603
(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER **CDMW-6**

PROJECT NAME: **Davidson County C&D Landfill**
LOCATION: **Lexington, NC**
DRILLING CO: **Geologic Exploration**
DRILLING METHOD: **GP/AH**
FIELD PARTY: **John Burr**
GEOLOGIST: **Lindsay Quant**
DATE BEGUN: **11/15/10** COMPLETED: **11/15/10**

TOTAL DEPTH: **23**
TOP OF CASING ELEV.:
GROUND ELEV.: **686.32**
NORTHING: **762991.614**
EASTING: **1651988.624**

STATIC WATER LEVEL (from TOC)		
Depth (ft)	14.95	
Time	10 am	
Date	3/30/11	

DEPTH Feet	BLOW COUNT Per 6"	SAMPLING METHOD	RECOVERY Inches	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH Feet	WELL INSTALLATION
0.0		MC		GP	SANDY CLAY: Dry red fine to medium sandy clay.		0.0	
5.0		MC			SANDY SILT: Dry white to tan fine to medium sandy silt. Geoprobe refusal at 7 feet.		5.0	
				AH	PWR: Dry to wet partially weathered granite. Boring terminated at 23 feet.			
10.0		MC					10.0	
15.0		MC					15.0	
20.0		MC					20.0	

Smith Gardner, Inc.

14 North Boylan Avenue, Raleigh NC 27603

(919) 828-0577

FIELD BOREHOLE LOG

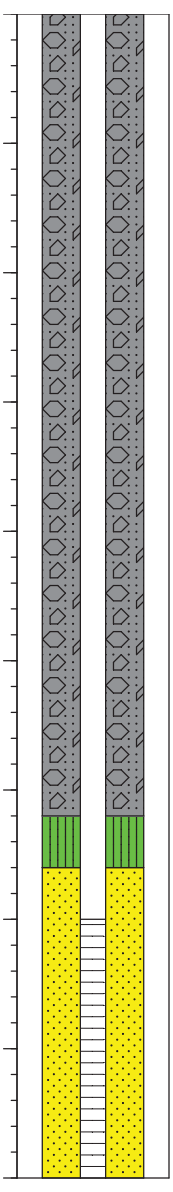
BOREHOLE NUMBER **CDMW-7** Page 1 of 1

PROJECT NAME: **Davidson County C&D Landfill**
LOCATION: **Lexington, NC**
DRILLING CO: **Geologic Exploration**
DRILLING METHOD: **GP/AH**
FIELD PARTY: **John Burr**
GEOLOGIST: **Lindsay Quant**
DATE BEGUN: **11/15/10** COMPLETED: **11/15/10**

TOTAL DEPTH: **45**
TOP OF CASING ELEV.:
GROUND ELEV.: **698.58**
NORTHING: **763182.755**
EASTING: **1651989.107**

STATIC WATER LEVEL (from TOC)		
Depth (ft)	31.02	
Time	11 am	
Date	3/30/11	

DEPTH Feet	BLOW COUNT Per 6"	SAMPLING METHOD	RECOVERY Inches	DRILL METHOD	DESCRIPTION	LITHOLOGY	DEPTH Feet	WELL INSTALLATION
0.0		MC		GP	SANDY SILT: Dry red to tan fine to medium sandy silt.		0.0	
5.0		MC		AH	SAND: Dry white to tan medium coarse sand with some relict rock texture. Geoprobe refusal at 7 feet.		5.0	
10.0					SILTY SAND: Dry tan silty sand partially weathered rock (PWR) with some hard lenses.		10.0	
15.0							15.0	
20.0							20.0	
25.0					GRANITE: Dry gray granite.		25.0	
30.0					SILT: Dry brown silt.		30.0	
35.0							35.0	
40.0					GRANITE: Dry to moist gray granite.		40.0	
45.0					SILT: Wet brown silt. Boring terminated at 45 feet.		45.0	



Pilot Environmental - C & D 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
	CDMW-2	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	7440-39-3	15	Barium	**47.5**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/22/2016	04/04/2016	04/05/2016	34
	CDMW-2	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	7440-47-3	51	Chromium	**3.74**	µg/L	J	EPA 200.7	1.3	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	7440-50-8	54	Copper	**2.65**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	7440-02-0	152	Nickel	50	µg/L	U	EPA 200.7	1.7	10.0	50.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	7440-62-2	209	Vanadium	**2.35**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	7440-66-6	213	Zinc	**22.0**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	7439-89-6	340	Iron	**376**	µg/L		EPA 200.7	15.4	50.0	300	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	7439-96-5	342	Manganese	**12.0**	µg/L	J	EPA 200.7	1.6	10.0	50.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	SW337	337	Alkalinity	**29,400**	µg/L		SM 2320B-1997	1,000	1,000	NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	SW301	301	Chloride	**3,740**	µg/L		SM 4500 Cl B-1997	1,000	1,000	NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2			Total Dissolved Solids	**213,000**	µg/L		SM 2540 C-1997	25,000		NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-2	14808-79-8	315	Sulfate	**51,400**	µg/L	J	SM 4500 SO_4E-1997	1.7	10,000	250000	1	03/22/2016	03/23/2016	03/28/2016	34

RAL Sample #: 16595-03

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 - C&D 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
	CDMW-2	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-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	03/22/2016	N/A	03/29/2016	34
	CDMW-2	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-2	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34

RAL Sample #: 16595-03

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 - C & D 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
	CDMW-3	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	7440-39-3	15	Barium	**208**	µg/L		EPA 200.7	1.3	40.0	100	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/22/2016	04/04/2016	04/05/2016	34
	CDMW-3	744-43-9	34	Cadmium	**0.300**	µg/L	J	EPA 200.7	0.3	1.0	1.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	7440-50-8	54	Copper	**5.53**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	7440-02-0	152	Nickel	**10.5**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	7440-62-2	209	Vanadium	**5.82**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	7440-66-6	213	Zinc	**17.9**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	7439-89-6	340	Iron	**1,130**	µg/L		EPA 200.7	15.4	50.0	300	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	7439-96-5	342	Manganese	**150**	µg/L		EPA 200.7	1.6	10.0	50.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	SW337	337	Alkalinity	**236,000**	µg/L		SM 2320B-1997	1,000	1,000	NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	SW301	301	Chloride	**54,300**	µg/L		SM 4500 Cl B-1997	1,000	1,000	NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3			Total Dissolved Solids	**606,000**	µg/L		SM 2540 C-1997	25,000		NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-3	14808-79-8	315	Sulfate	**99,300**	µg/L	J	SM 4500 SO_4E-1997	1.7	10,000	250000	1	03/22/2016	03/23/2016	03/28/2016	34

RAL Sample #: 16595-02

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 - C&D 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
	CDMW-3	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	75-34-3	75	1,1-Dichloroethane	**0.46**	µg/L	J	SW846 8260B	0.2	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	71-43-2	16	Benzene	**0.30**	µg/L	J	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	156-59-2	78	Cis-1,2-Dichloroethene	**0.11**	µg/L	J	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-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	03/22/2016	N/A	03/29/2016	34
	CDMW-3	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-3	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34

RAL Sample #: 16595-02

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 - C & D 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
	CDMW-5	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	7440-39-3	15	Barium	**56.3**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/22/2016	04/04/2016	04/05/2016	34
	CDMW-5	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	7440-50-8	54	Copper	**3.56**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	7440-02-0	152	Nickel	**2.98**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	7440-62-2	209	Vanadium	**3.74**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	7440-66-6	213	Zinc	**21.6**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	7439-89-6	340	Iron	300	µg/L	U	EPA 200.7	15.4	50.0	300	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	7439-96-5	342	Manganese	**23.2**	µg/L	J	EPA 200.7	1.6	10.0	50.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	SW337	337	Alkalinity	**68,400**	µg/L		SM 2320B-1997	1,000	1,000	NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	SW301	301	Chloride	**43,000**	µg/L		SM 4500 Cl B-1997	1,000	1,000	NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5			Total Dissolved Solids	**286,000**	µg/L		SM 2540 C-1997	25,000		NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-5	14808-79-8	315	Sulfate	**47,600**	µg/L	J	SM 4500 SO_4E-1997	1.7	10,000	250000	1	03/22/2016	03/23/2016	03/28/2016	34

RAL Sample #: 16595-01

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 - C&D 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
	CDMW-5	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-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	03/22/2016	N/A	03/29/2016	34
	CDMW-5	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-5	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34

RAL Sample #: 16595-01

N/A = Not Applicable

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

Pilot Environmental - C & D 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
	CDMW-6	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	7440-39-3	15	Barium	**10.7**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	7440-41-7	23	Beryllium	1	µg/L	U	EPA 200.7	0.4	1.0	1.0	1	03/22/2016	04/04/2016	04/05/2016	34
	CDMW-6	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	7440-50-8	54	Copper	**3.25**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	7440-02-0	152	Nickel	**7.58**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	7440-62-2	209	Vanadium	**4.78**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	7440-66-6	213	Zinc	**21.8**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	7439-89-6	340	Iron	**1,580**	µg/L		EPA 200.7	15.4	50.0	300	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	7439-96-5	342	Manganese	**94.8**	µg/L		EPA 200.7	1.6	10.0	50.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	SW337	337	Alkalinity	**41,800**	µg/L		SM 2320B-1997	1,000	1,000	NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	SW301	301	Chloride	**15,000**	µg/L		SM 4500 Cl B-1997	1,000	1,000	NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6			Total Dissolved Solids	**264,000**	µg/L		SM 2540 C-1997	25,000		NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-6	14808-79-8	315	Sulfate	**91,500**	µg/L	J	SM 4500 SO_4E-1997	1.7	10,000	250000	1	03/22/2016	03/23/2016	03/28/2016	34

RAL Sample #: 16595-04

N/A = Not Applicable

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

Pilot Environmental - C&D 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
	CDMW-6	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-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	03/22/2016	N/A	03/29/2016	34
	CDMW-6	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-6	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34

RAL Sample #: 16595-04

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Pilot Environmental - C & D 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
	CDMW-7	7440-36-0	13	Antimony	6	µg/L	U	EPA 200.7	1.9	5.0	6.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	7440-38-2	14	Arsenic	10	µg/L	U	EPA 200.7	2.4	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	7440-39-3	15	Barium	**5.90**	µg/L	J	EPA 200.7	1.3	40.0	100	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	7440-41-7	23	Beryllium	**0.975**	µg/L	J	EPA 200.7	0.4	1.0	1.0	1	03/22/2016	04/04/2016	04/05/2016	34
	CDMW-7	744-43-9	34	Cadmium	1	µg/L	U	EPA 200.7	0.3	1.0	1.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	7440-47-3	51	Chromium	10	µg/L	U	EPA 200.7	1.3	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	7440-48-4	53	Cobalt	10	µg/L	U	EPA 200.7	1.5	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	7440-50-8	54	Copper	**1.46**	µg/L	J	EPA 200.7	1.1	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	7439-92-1	131	Lead	10	µg/L	U	EPA 200.7	1.7	5.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	7440-02-0	152	Nickel	**1.84**	µg/L	J	EPA 200.7	1.7	10.0	50.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	7782-49-2	183	Selenium	10	µg/L	U	EPA 200.7	2.5	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	7440-22-4	184	Silver	10	µg/L	U	EPA 200.7	2.8	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	7440-62-2	209	Vanadium	**6.67**	µg/L	J	EPA 200.7	1.8	10.0	25.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	7440-66-6	213	Zinc	**14.4**	µg/L		EPA 200.7	2.9	10.0	10.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	7439-89-6	340	Iron	**188**	µg/L	J	EPA 200.7	15.4	50.0	300	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	7439-96-5	342	Manganese	**8.59**	µg/L	J	EPA 200.7	1.6	10.0	50.0	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	SW337	337	Alkalinity	**148,000**	µg/L		SM 2320B-1997	1,000	1,000	NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	SW301	301	Chloride	**18,700**	µg/L		SM 4500 Cl B-1997	1,000	1,000	NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7			Total Dissolved Solids	**290**	µg/L		SM 2540 C-1997	25,000		NE	1	03/22/2016	03/23/2016	03/28/2016	34
	CDMW-7	14808-79-8	315	Sulfate	**62,400**	µg/L	J	SM 4500 SO_4E-1997	1.7	10,000	250000	1	03/22/2016	03/23/2016	03/28/2016	34

RAL Sample #: 16595-05

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µg/L = micrograms per Liter = parts per billion (ppb)

Pilot Environmental - C&D 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
	CDMW-7	75-09-2	140	Methylene Chloride	1.0	µg/L	U	SW846 8260B	0.6	1.0	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	75-69-4	203	Trichlorofluoromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	75-35-4	77	1,1-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	75-34-3	75	1,1-Dichloroethane	5.0	µg/L	U	SW846 8260B	0.2	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	67-66-3	44	Chloroform	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	56-23-5	36	Carbon Tetrachloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	78-87-5	82	1,2-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	79-01-6	201	Trichloroethene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	124-48-1	66	Dibromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	79-00-5	202	1,1,2-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	127-18-4	192	Tetrachloroethene	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	108-90-7	39	Chlorobenzene	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	156-60-5	79	Trans-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	107-06-2	76	1,2-Dichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	71-55-6	200	1,1,1-Trichloroethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	75-27-4	29	Bromodichloromethane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	71-43-2	16	Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	75-25-2	30	Bromoform	3.0	µg/L	U	SW846 8260B	0.3	1.0	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	108-88-3	196	Toluene	1.0	µg/L	U	SW846 8260B	0.3	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	100-41-4	110	Ethyl Benzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	74-87-3	137	Chloromethane	1.0	µg/L	U	SW846 8260B	0.1	1.0	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	74-83-9	136	Bromomethane	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	75-01-4	211	Vinyl Chloride	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	75-00-3	41	Chloroethane	10.0	µg/L	U	SW846 8260B	0.1	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	67-64-1	3	Acetone	100	µg/L	U	SW846 8260B	1.2	25	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	75-15-0	35	Carbon Disulfide	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	108-05-4	210	Vinyl Acetate	50.0	µg/L	U	SW846 8260B	0.2	1.0	50.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	78-93-3	141	2-Butanone	100	µg/L	U	SW846 8260B	0.9	25	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	108-10-1	147	4-Methyl-2-Pentanone	100	µg/L	U	SW846 8260B	1.0	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	591-78-6	124	2-Hexanone	50.0	µg/L	U	SW846 8260B	1.4	5.0	50.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	100-42-5	186	Styrene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	1330-20-7	346	Total Xylenes	5.0	µg/L	U	SW846 8260B	0.3	1.0	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	107-13-1	8	Acrylonitrile	200	µg/L	U	SW846 8260B	12.4	100	200	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	95-50-1	69	1,2-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	106-46-7	71	1,4-Dichlorobenzene	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	µg/L	U	SW846 8260B	0.5	5.0	100	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	156-59-2	78	Cis-1,2-Dichloroethene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	74-88-4	142	Methyl Iodide	10.0	µg/L	U	SW846 8260B	0.2	1.0	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	74-97-5	28	Bromochloromethane	3.0	µg/L	U	SW846 8260B	0.1	0.5	3.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	74-95-3	139	Dibromomethane	10.0	µg/L	U	SW846 8260B	0.3	0.5	10.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	96-18-4	206	1,2,3-Trichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-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	03/22/2016	N/A	03/29/2016	34
	CDMW-7	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	µg/L	U	SW846 8260B	0.2	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	75-71-8	74	Dichlorodifluoromethane	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	142-28-9	83	1,3-Dichloropropane	1.0	µg/L	U	SW846 8260B	0.1	0.5	1.0	1	03/22/2016	N/A	03/29/2016	34
	CDMW-7	541-73-1	70	1,3-Dichlorobenzene	5.0	µg/L	U	SW846 8260B	0.1	0.5	5.0	1	03/22/2016	N/A	03/29/2016	34

RAL Sample #: 16595-05

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)

QA/QC Summary

Method: 8260/6200B(5/10/20/50/500/1000 PPB QC)				FILE NAME: WLC0329				
CLIENT: PILOT ENVIROMENTAL (PROJECT: C & D LANDFILL : # 1761)								
Sample ID:	16595 – 01 – 05				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)					
					MS	MSD		QC LIMITS
Compound	MDL	Method	LCS %	108.2	% Rec.	% Rec.	RPD	RPD / % REC
	ug/L	Blank	Recovery					
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: C & D LANDFILL : # 1761)

SAMPLE ID:	16595 – 01 – 05			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 #34 DIRECTOR CERTIFIED ANALYSTS

Quality Control Summary Results for Project Identified as C & D Landfill (A Pilot Environmental Project, 22 March 2016)

Inorganics Parameter	Prep. Blank (µg/L)	ICV Recovery %	CCV Recovery %	LCS Recovery %	Spike Recovery %	% Difference
Antimony	BDL	100	100 99	93	106	<1
Arsenic	BDL	102	101 100	94	108	<1
Barium	BDL	106	100 97	92	104	<1
Beryllium	BDL	105	96 108	92	86	13
Cadmium	BDL	103	101 100	93	105	<1
Cobalt	BDL	106	102 101	94	103	<1
Copper	BDL	100	97 95	89	100	2
Chromium	BDL	103	100 98	91	102	<1
Iron	BDL	105	97 95	92	97	2
Manganese	BDL	108	102 100	94	105	<1
Lead	BDL	108	101 99	92	101	1
Nickel	BDL	108	103 102	94	105	<1
Selenium	BDL	99	102 102	93	106	<1
Silver	BDL	103	100 99	91	92	<1
Vanadium	BDL	98	97 95	89	100	2
Zinc	BDL	105	104 104	97	106	<1

COMMENTS: 16595-01-05

% = 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 C & D Landfill (A Pilot Environmental Project, 22 March 2016)

Inorganics Parameter	Prep. Blank (µg/L)	ICV Recovery %	CCV Recovery %	LCS Recovery %	Spike Recovery %	% Difference
Alkalinity	BDL	99	N/A	96	N/A	5
Chloride	BDL	93	94 92	N/A	99	9
Total Dissolved Solids	BDL	93	N/A	96	N/A	5
Sulfate	BDL	100	100	100	99	<1

COMMENTS: 16595-01-05
% = 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: Pilot Enviro	JOB NO.: 1761
STREET ADDRESS: 743 Parklawn Ct	PROJECT: C+D Landfill
CITY, STATE, ZIP: Kernersville	SAMPLER NAME (PLEASE PRINT): Toby S Benfield
CONTACT: Toby Benfield	PHONE: 336-708-7812
	SAMPLER SIGNATURE: [signature]

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
1659501	3-22	1140							CD MW-5	1											8260 / C+D metals / Alkalinity Chloride Total dissolved Solids Sulfate
02		1300							CD MW-3												
03		1355							CD MW-2												
04		1445							CD MW-6												
05		1542							CD MW-7												

RELINQUISHED BY	DATE/TIME	RECEIVED BY
[signature]	3-27-16 1445	[signature]
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS: Metals scratched

SAMPLE TEMPERATURE AT RECEIPT 3.1 °C