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):

SCS Engineers, PC-Consultant; Pace Labs- Laboratory

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

Name: C. Ed Hilton, Jr., P.E. Phone: 407-514-2766

E-mail: ehilton@scsengineers.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Buncombe County New Landfill	85 Panther Road Alexander, North Carolina 28701	11-07	.1600	April 4-8th

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.

C. Ed Hilton, Jr., P.E. | Vice President | (407) 514-2766

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

C. Edward Hilton Jr. 6/15/16

Signature | Date

Affix NC Licensed Professional Geologist Seal

NORTH CAROLINA PROFESSIONAL SEAL 7909 ENGINEER C. EDWARD HILTON, JR.

4767 New Broad Street, Suite 222, Orlando, FL 32814

Facility Representative Address

PE - 7909

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

Revised 6/2009

Environmental Consultants
and Contractors

SCS Engineers, P.C.
4767 New Broad Street
Suite 222
Orlando, FL 32814

407 514-2766
FAX 407 514-2604
www.scsengineers.com

SCS ENGINEERS, PC

June 16, 2016
File No. 09204072.13

Mrs. Jackie Drummond
Compliance Hydrogeologist
Division of Waste Management - Solid Waste Section NC Department of Environmental Quality
Asheville Regional Office 2090 US Highway 70, Swannanoa, NC 28778

Subject: Sampling Report Buncombe County Solid Waste Management Facility Landfill
Buncombe County
Permit No. 1107

Dear Mrs. Drummond:

The purpose of this letter is to notify the Solid Waste Section that semi-annual sampling has been completed at the Buncombe County Solid Waste Management Facility Landfill. Water quality samples were collected from each of the monitoring wells, surface water sampling locations in addition to leachate samples.

Metals and sulfate were the only constituents detected in monitoring well samples which exceeded North Carolina 2L Groundwater and Surface Water Standards in concentrations which are consistent with previous sampling results and are generally recognized as naturally occurring. Leachate sampling demonstrated no constituents were above their SWS reporting limits.

Currently 25 monitoring wells are sampled semi-annually. Groundwater samples were collected from April 6th through 8th, 2016. The six surface water and six leachate samples were collected on April 4th, 2016. All samples were collected and analyzed by Pace Laboratories in Asheville, NC for analysis of the current landfill constituents list (Appendix I VOC (EPA 8260); Appendix I Metals (EPA 6010) plus mercury (EPA 7470), sulfate (EPA 300.0), chloride (SM 4500-Cl-E), Alkalinity (SM 2320B), and Total Dissolved Solids (SM 2540C)). Groundwater elevations were also measured and groundwater contour maps for both the shallow and deep flow regimes as presented in **Attachment A**. Field parameters and the well condition were evaluated as presented in **Attachment B** Well Condition Summary and **Attachment C** Sampling Forms. Field parameters included: pH, specific conductivity, temperature, dissolved oxygen, and oxidation/reduction potential, temperature, and turbidity. Field parameters were also measured at the surface water sampling locations.

Nine of the 25 monitoring wells (including the background well) had concentrations in excess of the North Carolina 2L Groundwater Standards. No surface water samples had concentrations in excess of the SWS reporting limits. A summary of detections is provided in **Attachment D**, a summary of exceedances is provided as **Attachment E**.

Metal constituents detected include antimony, cobalt, iron, manganese, sulfate, and vanadium. Antimony was detected above the maximum contaminant level of 1 µg/L in MW-12 (5.8 µg/L), and MW-6 (30.3 µg/L). Cobalt was detected above the maximum contaminant level of 1 µg/L in MW-13 (44.2 µg/L), MW-13D (31.8 µg/L), and MW-15S (66 µg/L). Iron was detected above the maximum contaminant level of 300 µg/L in MW-1 (1,140 µg/L), MW-1D (534 µg/L), MW-12 (385 µg/L), MW-12D (1,520 µg/L), MW-14 (5,130 µg/L), MW-15S (7,530 µg/L), and MW-15D (400 µg/L). Manganese was detected above the maximum contaminant level of 50 µg/L in MW-12 (423 µg/L), MW-12D (71.9 µg/L), MW-15S (7780 µg/L), and MW-15D (292 µg/L).

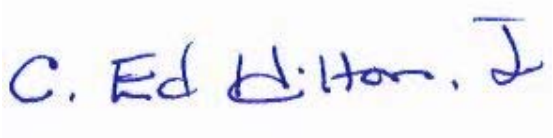
Sulfate was detected above the maximum contaminant level of 250,000 µg/L in MW-12 (264,000 M6 µg/L). Vanadium was detected above the maximum contaminant level of 0.3 µg/L in MW-1 (5.3 µg/L), MW-12D (5.5 µg/L), and MW-14 (24.2 µg/L).

Metal constituents detected in surface water samples include antimony, barium, chromium, cobalt, nickel, vanadium and zinc. No constituents were detected above the maximum contaminant level in surface water.

Metal constituents detected in leachate samples include arsenic, barium, chromium, cobalt, copper, nickel, and zinc. VOC constituents detected in leachate samples include 1,1-dichloroethane, benzene, and vinyl chloride.

The next Semi-Annual sampling event is scheduled for Fall 2016. This submittal, which included a discussion of the sampling of the approved groundwater and surface water quality monitoring network, satisfies the groundwater and surface water monitoring criteria necessary to operate the Buncombe County Landfill.

Sincerely,



C. Ed Hilton, Jr. P.E.

Vice President/Project Director

SCS ENGINEERS

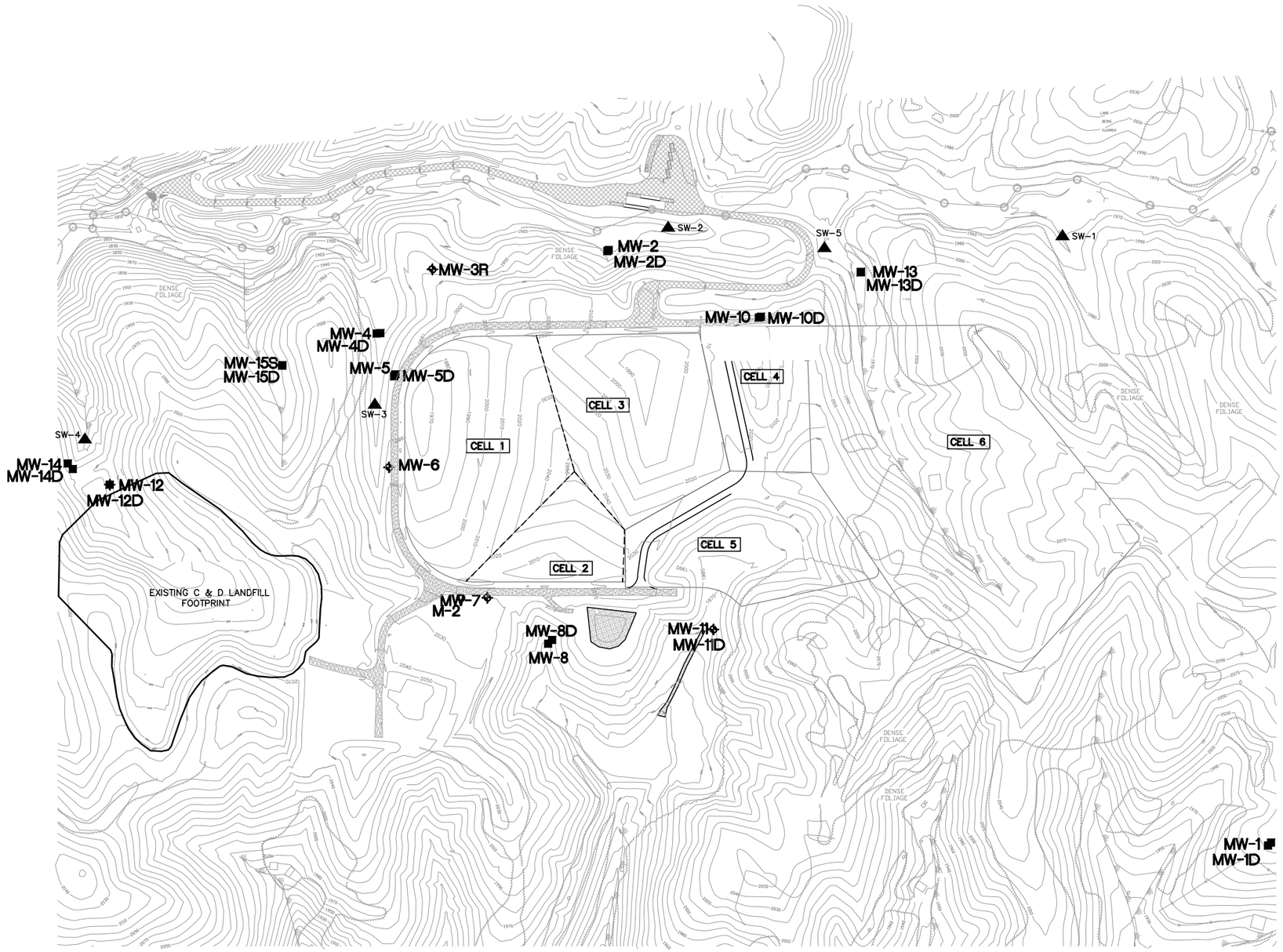
Brooke Fait, MPH

Environmental Health & Safety Project Manager

SCS ENGINEERS

BLF/CEH

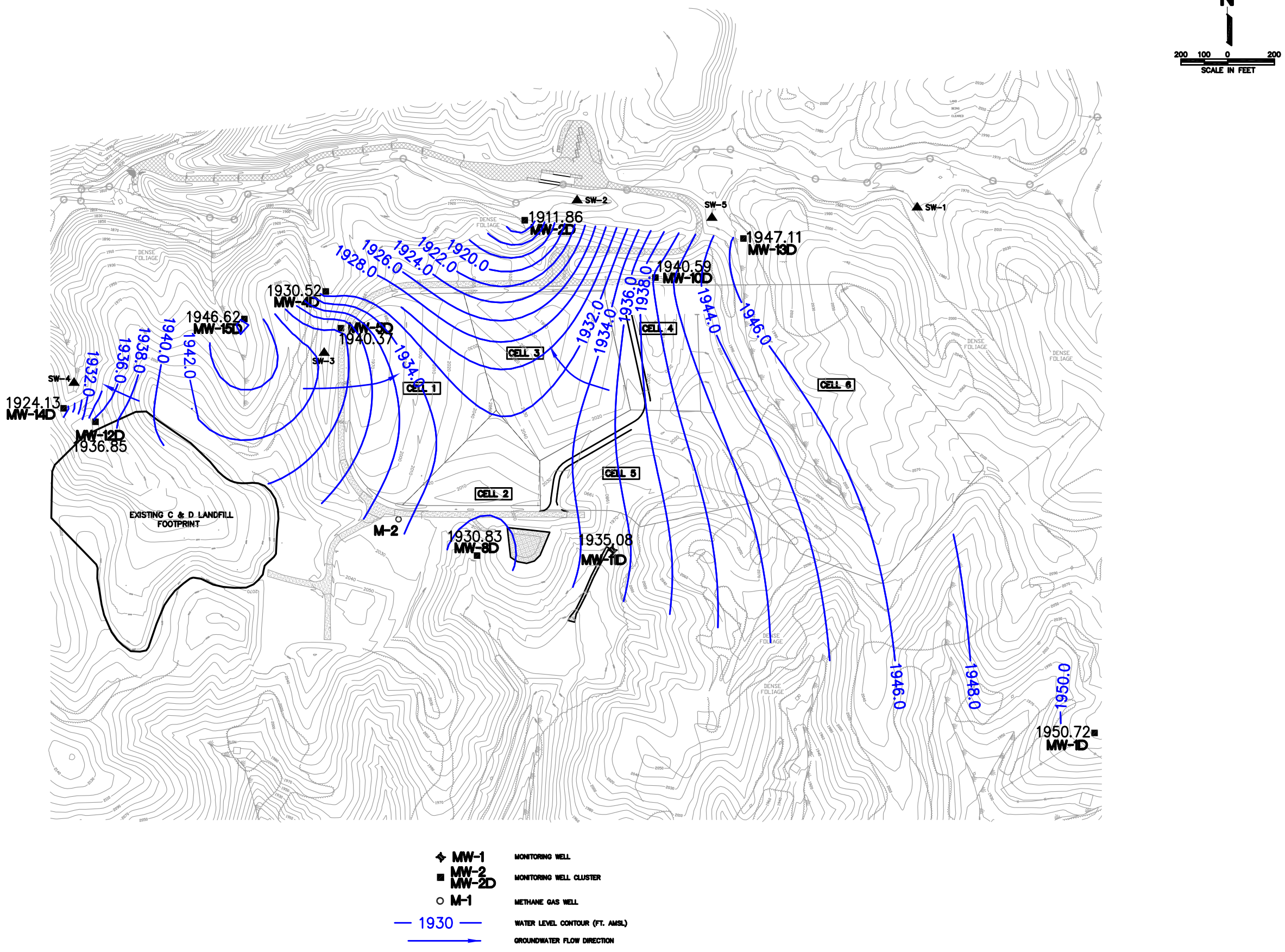
Attachment A



G:\PROJECT\Buncombe\09204072.12\New LF.dwg Dec 30, 2014 - 5:34pm Layout Name: site map By: 3465cel

SCS ENGINEERS

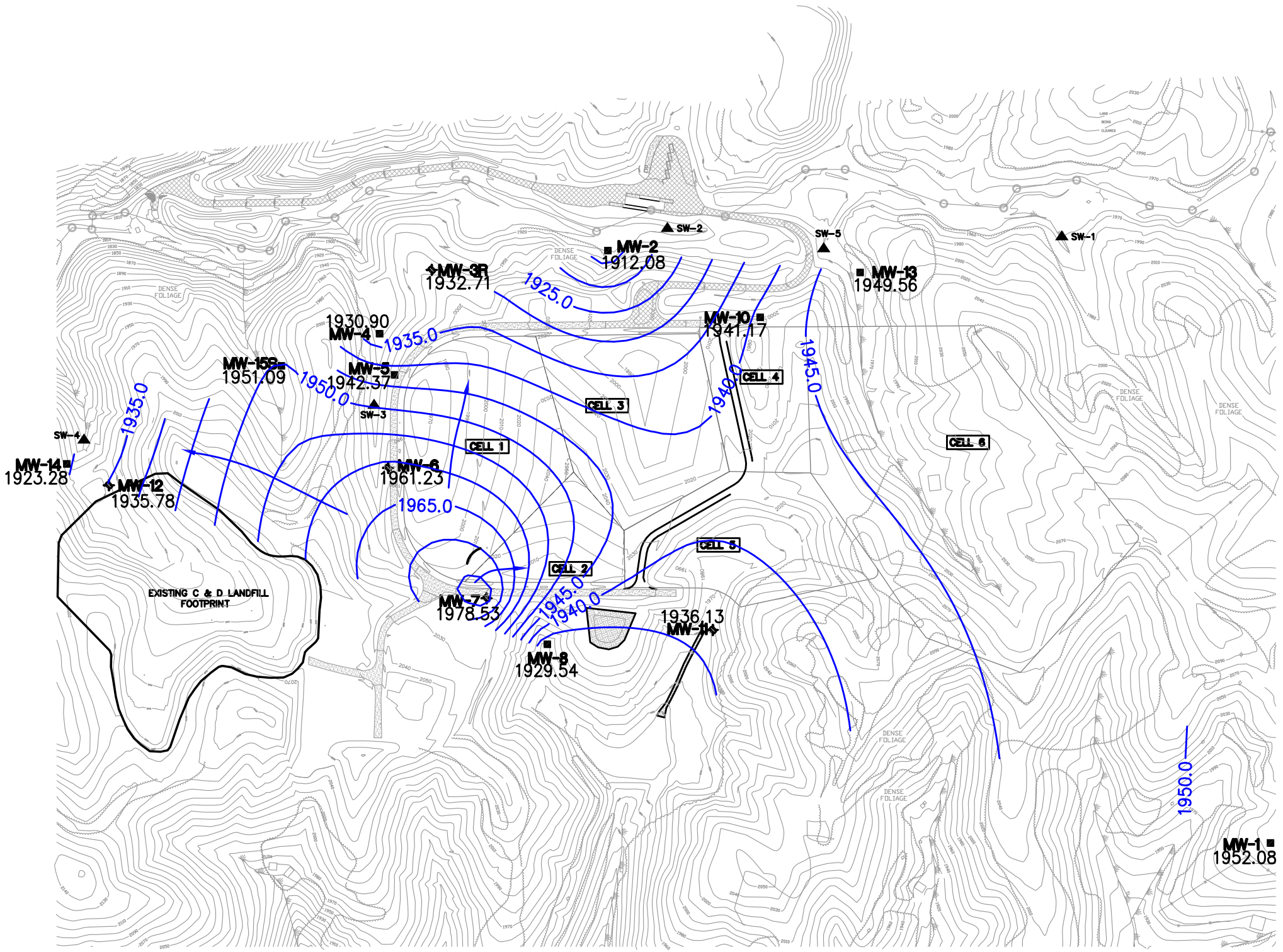
Figure 1. Facility Figure, New Buncombe County Landfill, Buncombe County



G:\PROJECT\Buncombe\092040072.13\GW Monitoring\New LF-1.dwg Jun 17, 2016 - 12:46pm Layout Name: Deep Spring 2016 By: 4137m_b

SCS ENGINEERS

Figure 3. April 2016 Groundwater Contour Map, Deep Wells, New Buncombe County Landfill, Buncombe County



MW-1 MONITORING WELL

MW-2 / MW-2D MONITORING WELL CLUSTER

M-1 METHANE GAS WELL

—1950.0— WATER LEVEL CONTOUR (FT. AMSL)

GROUNDWATER FLOW DIRECTION

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Figure 2. April 2016 Groundwater Contour Map, Shallow Wells, New Buncombe County Landfill, Buncombe County

Attachment B

Pace Analytical® www.pacelabs.com	Document Name: **Well Condition Summary**	Document Revised: May 27, 2014	Pace Analytical Services, Inc. 2225 Riverside Drive Asheville, NC 28804
	Document No.: F-ASV-F-008-rev.00	Issuing Authorities: Pace Asheville Quality Office	Phone: 828.254.7176 Fax: 828.252.4618

WELL CONDITION SUMMARY

Site: BUNC CO MSWLF **Personnel:** MPI

Date: 4.2016 **Page** 1 **of** 5

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	Comments/Observations*
MW-1	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	TFE BAILER	- ALL Need Locks Checked
MW-1D	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	12V PUMP TFE BAILER	- New Numbers - SEAL AROUND ELL F. Hing
MW-2	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	TFE BAILER	OUTER LID)
MW-2D	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	TFE BAILER	
MW-3A	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	TFE BAILER	
MW-4	☑ OK ☐ Damaged ☐ Damaged	☑ OK ☐ Damaged ☐ Damaged	☑ OK ☐ Inadequate ☐ Inadequate	☑ Yes ☐ No ☐ No	TFE BAILER	

*Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items. Return this form to SCS Engineers

Pace Analytical www.pacelabs.com	Document Name: **Well Condition Summary**	Document Revised: May 27, 2014	Pace Analytical Services, Inc. 2225 Riverside Drive Asheville, NC 28804
	Document No.: F-ASV-F-008-rev.00	Issuing Authorities: Pace Asheville Quality Office	Phone: 828.254.7176 Fax: 828.252.4618

WELL CONDITION SUMMARY

Site: Bunc Co Landfill **Personnel:** MPJ

Date: 4.2016 **Page** 2 **of** 5

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	Comments/Observations*
MW-4D	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☐ Yes ☐ No	12V PUMP TFE BAILER	
MW-5	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☐ Yes ☑ No	TFE BAILER	LOCK GUNKED UP
MW-5D	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☐ Yes ☒ No	12V PUMP TFE BAILER	
MW-6	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☐ Yes ☒ No	TFE BAILER	these locks by DRIVE ARE stocks + HARD to open
MW-7	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☐ Yes ☒ No	TFE BAILER	could use cleaning or ~~Repair~~ Replacement
MW-8	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☐ Yes ☒ No	TFE BAILER	INNER PVC CASING need to be SAWED OF 1"-2" need new LOCK

*Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items. Return this form to SCS Engineers

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	Document No.: F-ASV-F-008-rev.00	Issuing Authorities: Pace Asheville Quality Office	Phone: 828.254.7176 Fax: 828.252.4618

WELL CONDITION SUMMARY

Site: Bunc New LF **Personnel:** MLS

Date: 4.2016 **Page** 3 **of** 5

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	Comments/Observations*
MW-8D	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	12V Pump TFE Bailer	could use 1"-2" sanded off PVC ~~casing~~ inner casing
MW-10	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	TFE Bailer	
MW-10D	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	12V Pump TFE Bailer	
MW-11	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	TFE Bailer	
MW-11D	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	12V Pump TFE Bailer	
	☐ OK ☐ Damaged ☐ Damaged	☐ OK ☐ Damaged ☐ Damaged	☐ OK ☐ Inadequate ☐ Inadequate	☐ Yes ☐ No ☐ No		

*Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items. Return this form to SCS Engineers

Pace Analytical www.pacelabs.com	Document Name: **Well Condition Summary**	Document Revised: May 27, 2014	Pace Analytical Services, Inc. 2225 Riverside Drive Asheville, NC 28804
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WELL CONDITION SUMMARY

Site: Bear Mtn LF **Personnel:** MCJ

Date: 4-2016 **Page** 4 **of** 5

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	Comments/Observations*
MW-12	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	TFE BAILER	
MW-12D	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	TFE BAILER	
MW-13	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	TFE BAILER	
MW-13D	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	TFE BAILER	
MW-14	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No		
MW-14D	☑ OK ☐ Damaged ☐ Damaged	☑ OK ☐ Damaged ☐ Damaged	☑ OK ☐ Inadequate ☐ Inadequate	☑ Yes ☐ No ☐ No	12 V PUMP TFE BAILER	

*Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items. Return this form to SCS Engineers

Pace Analytical www.pacelabs.com	Document Name: **Well Condition Summary**	Document Revised: May 27, 2014	Pace Analytical Services, Inc. 2225 Riverside Drive Asheville, NC 28804
	Document No.: F-ASV-F-008-rev.00	Issuing Authorities: Pace Asheville Quality Office	Phone: 828.254.7176 Fax: 828.252.4618

WELL CONDITION SUMMARY

Site: Bull Run LF **Personnel:** MCJ

Date: 4-2016 **Page** 5 **of** 5

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	Comments/Observations*
MW-15s	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	TFE Bailer	
MW-15d	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	TFE Bailer	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		
	☐ OK ☐ Damaged ☐ Damaged	☐ OK ☐ Damaged ☐ Damaged	☐ OK ☐ Inadequate ☐ Inadequate	☐ Yes ☐ No ☐ No		

*Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items. Return this form to SCS Engineers

Attachment C

Pace Analytical	Document Name: Report Form for Field Monitoring	Document Revised: August 4, 2011 Page 1 of 1
	Document No.: F-AVL-F-004-rev.00	Issuing Authorities: Pace Asheville Quality Office

Pace Analytical Services, Inc
Report Form for Field Monitoring

Location: Buncombe Co New LF

Date	Time	Sampler	Sample ID	Water Level (Ft)	pH (units)	Temp (°C)	Specific Conductivity (uhmos)	Turbidity (NTU)	ORP	DO	Comments
4-3-16	~~1450~~	MCl	MW-1	69.14	6.4	13.4	152	12.62	141.2	5.48	CLEAR/NO ODOR
4-3	~~1445~~		MW-1D	70.45	~~13.6~~ 6.3	13.6	264	34.54	132.6	5.55	~~DARK~~ OPAQUE NO ODOR
4-6	1525		MW-2	8.78	7.4	9.15	177	5.44	92.4	6.41	CLEAR/NO ODOR
	1430										
4-6	~~1540~~		MW-2D	8.65	6.9	9.9	262	2.04	126.6	4.60	CLEAR/NO ODOR
	1440										
4-6	~~1550~~		MW3R	54.95	6.4	13.2	182	39.83	59.0	6.25	OPAQUE/NO ODOR
	1525										
4-6	1540		MW-4	13.45	6.4	12.2	186	3.04	93.0	5.59	CLEAR/NO ODOR
4-6	1550		MW-4D	14.12	6.3	12.2	250	1.37	104.0	3.64	CLEAR/NO ODOR
4-6	1600		MW-5	34.75	6.4	14.6	202	7.35	115.5	3.27	CLEAR/NO ODOR
4-6	1610		MW-5D	36.55	6.3	14.0	202	1.73	118.4	4.14	CLEAR/NO ODOR
4-6	1630		MW-6	26.11	6.2	14.1	141	18.01	117.2	3.86	CLEAR/NO ODOR

2

Pace Analytical	Document Name: Report Form for Field Monitoring	Document Revised: August 4, 2011 Page 1 of 1
	Document No.: F-AVL-F-004-rev.00	Issuing Authorities: Pace Asheville Quality Office

MW's

Pace Analytical Services, Inc
Report Form for Field Monitoring

Location: BUNCOMBE CO New LF

Date	Time	Sampler	Sample ID	Water Level (Ft)	pH (units)	Temp (°C)	Specific Conductivity (uhmos)	Turbidity (NTU)	ORP	DO	Comments
4.6.16	1640	MC	MW-7	44.30	6.1	14.5	~~3.044~~ 626	30.47	141.4	2.37	OPAQUE NO ODOR
4.7	1405		MW-8	32.52	6.6	15.1	~~2495~~ 341	24.9	140.5	5.14	CLEAR NO ODOR
4-7	1415		MW-8D	31.64	6.3	16.6	~~1.90~~ 392	1.90	137.3	3.07	CLEAR NO ODOR
4.8	1515		MW-10	69.37	6.4	14.5	328	4.50	132.4	1.90	CLEAR / NO ODOR
4.8	1525		MW-10D	69.97	6.0	13.5	290	2.41	132.1	2.61	CLEAR/NO ODOR
4.7	1425		MW-11	30.57	6.6	15.5	385	4.05	157.3	6.40	CLEAR NO ODOR
4.7	1450		MW-11D	31.07	6.3	15.1	364	1.04	90.2	1.90	CLEAR NO ODOR
4.7	1615		MW-12	11.61	6.2	12.7	946	15.9	154.7	3.45	CLEAR/ NO ODOR
4.7	1630		MW-12D	10.45	6.5	12.8	477	42.08	144.6	2.51	CLOUDS NO ODOR

3

Pace Analytical	Document Name: Report Form for Field Monitoring	Document Revised: August 4, 2011 Page 1 of 1
	Document No.: F-AVL-F-004-rev.00	Issuing Authorities: Pace Asheville Quality Office

Pace Analytical Services, Inc
Report Form for Field Monitoring

Location: _____

Date	Time	Sampler	Sample ID	Water Level (Ft)	pH (units)	Temp (°C)	Specific Conductivity (uhmos)	Turbidity (NTU)	ORP	DO	Comments
4.6.16	1505		MW-13	4.36	6.7	12.5	326	4.92	87.9	3.82	CLEAR / NO ODOR
4.6	1510		MW-13D	6.71	6.5	11.5	372	6.05	61.4	2.61	CLEAR / NO ODOR
4.7	1552		MW-14	29.49	6.1	13.5	201	190	117.3	6.07	MUDDY / NO ODOR
4.7	1600		MW-14D	29.63	6.5	13.0	248	2.16	138.7	8.23	CLEAR NO ODOR
4.7	1520		MW-15S	22.20	6.0	14.3	421	19.92	72.2	3.17	CLEAR to MUDDY
											NO ODOR
4.7	1530		MW-15D	26.80	5.9	14.1	426	6.32	65.5	2.03	CLEAR / NO ODOR

Pace Analytical	Document Name: Report Form for Field Monitoring	Document Revised: August 4, 2011 Page 1 of 1
	Document No.: F-AVL-F-004-rev.00	Issuing Authorities: Pace Asheville Quality Office

~~BUNCOMBE CO~~ NEW LF

Pace Analytical Services, Inc
Report Form for Field Monitoring

Location LD's

Date	Time	Sampler	Sample ID	Water Level (Ft)	pH (units)	Temp (°C)	Specific Conductivity (uhmos)	Turbidity (NTU)	ORP	DO	Comments
4-4.11	1520	MC	LD-1	5.7	5.7	16.4	484	1.04	15.9	1.45	CLEAR / NO ODOR
4.4	1500		LD-2	5.8	5.8	13.6	401	2.14	-8.2	2.76	CLEAR NO ODOR
4.4	1545		LD-3	6.1	6.1	17.3	285	12.18	79.7	5.35	CLEAR NO ODOR
4.4	1600		LD-4	5.7	5.7	18.3	166	34.12	8.8	2.91	CLEAR SUSPENDED SOLIDS SLIGHT ORGANIC ODOR
4.4	1400		LD-5	6.7	6.7	17.3	721	3.03	176.7	6.56	CLEAR SLIGHT ORGANIC ODOR
4.4	1615		LD 6	6.1	6.1	18.3	566	12.57	70.0	2.29	CLEAR RUST SOLIDS NO ODOR
4.4	1435		LD-LEACHATE LD	5.1	5.1	13.4	423	0.77	174.4	7.46	CLEAR / NO ODOR

Pace Analytical	Document Name: Report Form for Field Monitoring	Document Revised: August 4, 2011 Page 1 of 1
	Document No.: F-AVL-F-004-rev.00	Issuing Authorities: Pace Asheville Quality Office

Pace Analytical Services, Inc

Report Form for Field Monitoring

Location: Buncombe Co New LF SW's

Date	Time	Samples	Sample ID	Water Level (Ft)	pH (units)	Temp (°C)	Specific Conductivity (uhmos)	Turbidity (NTU)	ORP	DO	Comments
4-4-16		MD	SW-1		7.2	9.7	137	10.54	176.3	7.97	LOW FLOW
											CLEAR
4-4			SW-2		7.2	9.4	142	7.50	123.6	10.60	LOW FLOW
											CLEAR
4-4			SW-3		7.9	21.2	130	7.69	162.1	7.34	LOW FLOW/CLEAR
											FOAMY
4-4			SW-4		7.5	13.4	354	53.27	160.1	8.17	RUSTY TINT
											RUSTY SEDIMENT
4-4			SW-5		7.3	13.5	2890	9.82	129.5	8.30	CLEAR FOAMY
											ORGANIC ODOR
4-4			SW-6		7.5	12.4	238	5.76	142.0	10.03	CLEAR LOW FLOW
4-4			SW-7		7.1	11.4	301	8.40	120.5	9.19	LOW FLOW
											CLEAR
4-4			Leachate		7.7	18.8	4720	82.09	191.5	would not register	GREEN OPAQUE
											STRONG ODOR

Attachment D

Detections By Date Range

Buncombe County New Facility

From: 4/6/2016 ***To:*** 4/8/2016

Site ID	*Analyte*	*Date*	*Result*	
MW-1				
	Alkalinity, Total as CaCO3	4/8/2016	46800	ug/L
	Barium	4/8/2016	105	ug/L
	Chloride	4/8/2016	3740	ug/L
	Field pH	4/8/2016	6.4	Std.
	Field Specific Conductance	4/8/2016	152	umh
	Field Temperature	4/8/2016	13.4	deg
	Iron	4/8/2016	1140	ug/L
	Manganese	4/8/2016	14.9	ug/L
	ORP	4/8/2016	141.2	mV
	Oxygen, Dissolved, Dissolved	4/8/2016	5.98	mg/L
	Static Water Level	4/8/2016	69.14	feet
	Sulfate	4/8/2016	15600	ug/L
	Total Dissolved Solids	4/8/2016	108000	ug/L
	Turbidity	4/8/2016	12.62	NTU
	Vanadium	4/8/2016	5.3	ug/L

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-10				
	Barium			
		4/8/2016	113	ug/L
	Field pH			
		4/8/2016	6.4	Std.
	Field Specific Conductance			
		4/8/2016	328	umh
	Field Temperature			
		4/8/2016	14.5	deg
	ORP			
		4/8/2016	132.4	mV
	Oxygen, Dissolved, Dissolved			
		4/8/2016	1.9	mg/L
	Static Water Level			
		4/8/2016	69.37	feet
	Turbidity			
		4/8/2016	4.5	NTU
MW-10D				
	Barium			
		4/8/2016	15.3	ug/L
	Field pH			
		4/8/2016	6	Std.
	Field Specific Conductance			
		4/8/2016	290	umh
	Field Temperature			
		4/8/2016	13.5	deg
	Nickel			
		4/8/2016	6.6	ug/L
	ORP			
		4/8/2016	132.1	mV
	Oxygen, Dissolved, Dissolved			
		4/8/2016	2.61	mg/L
	Static Water Level			
		4/8/2016	69.97	feet
	Turbidity			
		4/8/2016	2.41	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-11				
	Barium			
		4/7/2016	79.8	ug/L
	Field pH			
		4/7/2016	6.6	Std.
	Field Specific Conductance			
		4/7/2016	385	umh
	Field Temperature			
		4/7/2016	15.5	deg
	Nickel			
		4/7/2016	19.6	ug/L
	ORP			
		4/7/2016	157.3	mV
	Oxygen, Dissolved, Dissolved			
		4/7/2016	6.4	mg/L
	Static Water Level			
		4/7/2016	30.58	feet
	Turbidity			
		4/7/2016	4.05	NTU
MW-11D				
	Barium			
		4/7/2016	13.7	ug/L
	Field pH			
		4/7/2016	6.3	Std.
	Field Specific Conductance			
		4/7/2016	364	umh
	Field Temperature			
		4/7/2016	15.1	deg
	ORP			
		4/7/2016	90.2	mV
	Oxygen, Dissolved, Dissolved			
		4/7/2016	1.9	mg/L
	Static Water Level			
		4/7/2016	31.07	feet
	Turbidity			
		4/7/2016	1.04	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-12				
	Alkalinity, Total as CaCO3			
		4/7/2016	181000	ug/L
	Antimony			
		4/7/2016	5.8	ug/L
	Barium			
		4/7/2016	90.4	ug/L
	Chloride			
		4/7/2016	35300	ug/L
	Field pH			
		4/7/2016	6.2	Std.
	Field Specific Conductance			
		4/7/2016	946	umh
	Field Temperature			
		4/7/2016	12.7	deg
	Iron			
		4/7/2016	385	ug/L
	Manganese			
		4/7/2016	423	ug/L
	Nickel			
		4/7/2016	16.9	ug/L
	ORP			
		4/7/2016	154.7	mV
	Oxygen, Dissolved, Dissolved			
		4/7/2016	3.45	mg/L
	Static Water Level			
		4/7/2016	11.61	feet
	Sulfate			
		4/7/2016	264000 M6	ug/L
	Total Dissolved Solids			
		4/7/2016	634000	ug/L
	Turbidity			
		4/7/2016	15.9	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-12D				
	Alkalinity, Total as CaCO3			
		4/7/2016	163000	ug/L
	Barium			
		4/7/2016	53.9	ug/L
	Chloride			
		4/7/2016	14500	ug/L
	Field pH			
		4/7/2016	6.5	Std.
	Field Specific Conductance			
		4/7/2016	477	umh
	Field Temperature			
		4/7/2016	12.6	deg
		4/7/2016	12.8	deg
	Iron			
		4/7/2016	1520	ug/L
	Manganese			
		4/7/2016	71.9	ug/L
	ORP			
		4/7/2016	144.4	mV
	Oxygen, Dissolved, Dissolved			
		4/7/2016	2.51	mg/L
	Static Water Level			
		4/7/2016	10.29	feet
	Sulfate			
		4/7/2016	54600	ug/L
	Total Dissolved Solids			
		4/7/2016	293000	ug/L
	Turbidity			
		4/7/2016	42.08	NTU
	Vanadium			
		4/7/2016	5.5	ug/L

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-13				
	Barium			
		4/6/2016	191	ug/L
	Cobalt			
		4/6/2016	44.2	ug/L
	Field pH			
		4/6/2016	6.7	Std.
	Field Specific Conductance			
		4/6/2016	326	umh
	Field Temperature			
		4/6/2016	12.5	deg
	Nickel			
		4/6/2016	24.7	ug/L
	ORP			
		4/6/2016	87.9	mV
	Oxygen, Dissolved, Dissolved			
		4/6/2016	3.82	mg/L
	Static Water Level			
		4/6/2016	4.36	feet
	Turbidity			
		4/6/2016	4.92	NTU
MW-13D				
	Barium			
		4/6/2016	304	ug/L
	Cobalt			
		4/6/2016	31.8	ug/L
	Field pH			
		4/6/2016	6.5	Std.
	Field Specific Conductance			
		4/6/2016	372	umh
	Field Temperature			
		4/6/2016	11.5	deg
	Nickel			
		4/6/2016	21.2	ug/L
	ORP			
		4/6/2016	6.14	mV
	Oxygen, Dissolved, Dissolved			
		4/6/2016	2.61	mg/L
	Static Water Level			
		4/6/2016	6.71	feet
	Turbidity			
		4/6/2016	6.05	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-14				
	Alkalinity, Total as CaCO3			
		4/7/2016	67500	ug/L
	Barium			
		4/7/2016	88.4	ug/L
	Chloride			
		4/7/2016	4210	ug/L
	Chromium			
		4/7/2016	13	ug/L
	Copper			
		4/7/2016	8.5	ug/L
	Field pH			
		4/7/2016	6.1	Std.
	Field Specific Conductance			
		4/7/2016	201	umh
	Field Temperature			
		4/7/2016	13.5	deg
	Iron			
		4/7/2016	5130	ug/L
	Manganese			
		4/7/2016	30.4	ug/L
	Nickel			
		4/7/2016	9.3	ug/L
	ORP			
		4/7/2016	117.3	mV
	Oxygen, Dissolved, Dissolved			
		4/7/2016	6.07	mg/L
	Static Water Level			
		4/7/2016	29.49	feet
	Sulfate			
		4/7/2016	26000	ug/L
	Total Dissolved Solids			
		4/7/2016	256000	ug/L
	Turbidity			
		4/7/2016	190	NTU
	Vanadium			
		4/7/2016	24.2	ug/L
	Zinc			
		4/7/2016	11.7	ug/L

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-14D				
	Alkalinity, Total as CaCO3			
		4/7/2016	128000	ug/L
	Chloride			
		4/7/2016	2200	ug/L
	Field pH			
		4/7/2016	6.5	Std.
	Field Specific Conductance			
		4/7/2016	248	umh
	Field Temperature			
		4/7/2016	13	deg
	ORP			
		4/7/2016	138.7	mV
		4/7/2016	138.3	mV
	Oxygen, Dissolved, Dissolved			
		4/7/2016	8.23	mg/L
	Static Water Level			
		4/7/2016	29.63	feet
	Sulfate			
		4/7/2016	16700	ug/L
	Total Dissolved Solids			
		4/7/2016	162000	ug/L
	Turbidity			
		4/7/2016	2.16	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-15D				
	Alkalinity, Total as CaCO3			
		4/7/2016	150000	ug/L
	Barium			
		4/7/2016	162	ug/L
	Chloride			
		4/7/2016	14400	ug/L
	Field pH			
		4/7/2016	5.9	Std.
	Field Specific Conductance			
		4/7/2016	476	umh
	Field Temperature			
		4/7/2016	14.1	deg
	Iron			
		4/7/2016	400	ug/L
	Manganese			
		4/7/2016	292	ug/L
	Nickel			
		4/7/2016	9.4	ug/L
	ORP			
		4/7/2016	65.9	mV
	Oxygen, Dissolved, Dissolved			
		4/7/2016	2.03	mg/L
	Static Water Level			
		4/7/2016	26.8	feet
	Sulfate			
		4/7/2016	75500	ug/L
	Total Dissolved Solids			
		4/7/2016	313000	ug/L
	Turbidity			
		4/7/2016	6.32	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-15S				
	Alkalinity, Total as CaCO3	4/7/2016	163000	ug/L
	Barium	4/7/2016	181	ug/L
	Chloride	4/7/2016	15500	ug/L
	Cobalt	4/7/2016	66	ug/L
	Field pH	4/7/2016	6	Std.
	Field Specific Conductance	4/7/2016	421	umh
	Field Temperature	4/7/2016	14.3	deg
	Iron	4/7/2016	7530	ug/L
	Manganese	4/7/2016	7780	ug/L
	Nickel	4/7/2016	7.2	ug/L
	ORP	4/7/2016	72.2	mV
	Oxygen, Dissolved, Dissolved	4/7/2016	3.17	mg/L
	Static Water Level	4/7/2016	22.2	feet
	Sulfate	4/7/2016	31100	ug/L
	Total Dissolved Solids	4/7/2016	216000	ug/L
	Turbidity	4/7/2016	19.92	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-1D				
	Alkalinity, Total as CaCO3			
		4/8/2016	94200	ug/L
	Barium			
		4/8/2016	25.9	ug/L
	Chloride			
		4/8/2016	3740	ug/L
	Field pH			
		4/8/2016	6.3	Std.
	Field Specific Conductance			
		4/8/2016	264	umh
	Field Temperature			
		4/8/2016	13.6	deg
	Iron			
		4/8/2016	534	ug/L
	Manganese			
		4/8/2016	9.5	ug/L
	ORP			
		4/8/2016	178.6	mV
		4/8/2016	172.6	mV
	Oxygen, Dissolved, Dissolved			
		4/8/2016	5.39	mg/L
	Static Water Level			
		4/8/2016	70.45	feet
	Sulfate			
		4/8/2016	45900	ug/L
	Total Dissolved Solids			
		4/8/2016	169000	ug/L
	Turbidity			
		4/8/2016	34.54	NTU
		4/8/2016	34.52	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-2				
	Barium			
		4/6/2016	72.2	ug/L
	Field pH			
		4/6/2016	7.4	Std.
	Field Specific Conductance			
		4/6/2016	177	umh
	Field Temperature			
		4/6/2016	9.5	deg
	ORP			
		4/6/2016	92.4	mV
	Oxygen, Dissolved, Dissolved			
		4/6/2016	6.41	mg/L
	Static Water Level			
		4/6/2016	8.78	feet
	Turbidity			
		4/6/2016	5.44	NTU
MW-2D				
	Barium			
		4/6/2016	88.1	ug/L
	Field pH			
		4/6/2016	6.9	Std.
	Field Specific Conductance			
		4/6/2016	262	umh
	Field Temperature			
		4/6/2016	9.9	deg
	ORP			
		4/6/2016	126.6	mV
	Oxygen, Dissolved, Dissolved			
		4/6/2016	4.6	mg/L
	Static Water Level			
		4/6/2016	8.65	feet
	Turbidity			
		4/6/2016	2.04	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-3R				
	Barium			
		4/6/2016	88.6	ug/L
	Field pH			
		4/6/2016	6.4	Std.
	Field Specific Conductance			
		4/6/2016	182	umh
	Field Temperature			
		4/6/2016	13.2	deg
	Nickel			
		4/6/2016	8.2	ug/L
	ORP			
		4/6/2016	59	mV
	Oxygen, Dissolved, Dissolved			
		4/6/2016	6.25	mg/L
	Static Water Level			
		4/6/2016	54.95	feet
	Turbidity			
		4/6/2016	39.83	NTU
MW-4				
	Barium			
		4/6/2016	61.3	ug/L
	Field pH			
		4/6/2016	6.4	Std.
	Field Specific Conductance			
		4/6/2016	186	umh
	Field Temperature			
		4/6/2016	12.2	deg
	ORP			
		4/6/2016	93	mV
	Oxygen, Dissolved, Dissolved			
		4/6/2016	5.59	mg/L
	Static Water Level			
		4/6/2016	13.45	feet
	Turbidity			
		4/6/2016	3.04	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-4D				
	Barium			
		4/6/2016	25	ug/L
	Field pH			
		4/6/2016	6.3	Std.
	Field Specific Conductance			
		4/6/2016	250	umh
	Field Temperature			
		4/6/2016	12.2	deg
	ORP			
		4/6/2016	104	mV
	Oxygen, Dissolved, Dissolved			
		4/6/2016	3.64	mg/L
	Static Water Level			
		4/6/2016	14.12	feet
	Turbidity			
		4/6/2016	1.37	NTU
MW-5				
	Barium			
		4/6/2016	107	ug/L
	Field pH			
		4/6/2016	6.4	Std.
	Field Specific Conductance			
		4/6/2016	208	umh
	Field Temperature			
		4/6/2016	14.6	deg
	ORP			
		4/6/2016	115.5	mV
	Oxygen, Dissolved, Dissolved			
		4/6/2016	3.27	mg/L
	Static Water Level			
		4/6/2016	34.75	feet
	Turbidity			
		4/6/2016	7.35	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-5D				
	Barium			
		4/6/2016	56.9	ug/L
	Field pH			
		4/6/2016	6.3	Std.
	Field Specific Conductance			
		4/6/2016	202	umh
	Field Temperature			
		4/6/2016	14	deg
	ORP			
		4/6/2016	118.4	mV
	Oxygen, Dissolved, Dissolved			
		4/6/2016	4.14	mg/L
	Static Water Level			
		4/6/2016	36.55	feet
	Turbidity			
		4/6/2016	1.73	NTU
MW-6				
	Barium			
		4/6/2016	53.7	ug/L
	Field pH			
		4/6/2016	6.2	Std.
	Field Specific Conductance			
		4/6/2016	141	umh
	Field Temperature			
		4/6/2016	14.1	deg
	ORP			
		4/6/2016	117.2	mV
	Oxygen, Dissolved, Dissolved			
		4/6/2016	3.86	mg/L
	Static Water Level			
		4/6/2016	26.11	feet
	Turbidity			
		4/6/2016	18.01	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-7				
	1,1-Dichloroethane			
		4/6/2016	1.2	ug/L
	Barium			
		4/6/2016	123	ug/L
	Cobalt			
		4/6/2016	5.3	ug/L
	Field pH			
		4/6/2016	6.1	Std.
	Field Specific Conductance			
		4/6/2016	626	umh
	Field Temperature			
		4/6/2016	14.5	deg
	Nickel			
		4/6/2016	20.5	ug/L
	ORP			
		4/6/2016	141.4	mV
	Oxygen, Dissolved, Dissolved			
		4/6/2016	2.37	mg/L
	Static Water Level			
		4/6/2016	44.3	feet
	Turbidity			
		4/6/2016	30.47	NTU
MW-8				
	Barium			
		4/7/2016	128	ug/L
	Field pH			
		4/7/2016	6.6	Std.
	Field Specific Conductance			
		4/7/2016	341	umh
	Field Temperature			
		4/7/2016	15.1	deg
	ORP			
		4/7/2016	140.5	mV
	Oxygen, Dissolved, Dissolved			
		4/7/2016	5.14	mg/L
	Static Water Level			
		4/7/2016	32.52	feet
	Turbidity			
		4/7/2016	24.9	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
MW-8D				
	Barium			
		4/7/2016	158	ug/L
	Field pH			
		4/7/2016	6.3	Std.
	Field Specific Conductance			
		4/7/2016	392	umh
	Field Temperature			
		4/7/2016	16.6	deg
	Methylene Chloride			
		4/7/2016	2.4 C9	ug/L
	ORP			
		4/7/2016	137.3	mV
	Oxygen, Dissolved, Dissolved			
		4/7/2016	3.07	mg/L
	Static Water Level			
		4/7/2016	31.64	feet
	Turbidity			
		4/7/2016	1.9	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Detections By Date Range

Buncombe County New Facility

From: 4/4/2016 **To:** 4/4/2016

Site ID	Analyte	Date	Result	
LD-1				
	1,1-Dichloroethane			
		4/4/2016	2.3	ug/L
		4/4/2016	2.3	ug/L
		4/4/2016	2.3	ug/L
	Barium			
		4/4/2016	94.8	ug/L
		4/4/2016	94.8	ug/L
		4/4/2016	94.8	ug/L
	Cobalt			
		4/4/2016	252	ug/L
		4/4/2016	252	ug/L
		4/4/2016	252	ug/L
	Field pH			
		4/4/2016	5.7	Std.
		4/4/2016	5.7	Std.
		4/4/2016	5.7	Std.
	Field Specific Conductance			
		4/4/2016	484	umh
		4/4/2016	484	umh
		4/4/2016	484	umh
	Field Temperature			
		4/4/2016	16.4	deg
		4/4/2016	16.4	deg
		4/4/2016	16.4	deg
	Nickel			
		4/4/2016	49.8	ug/L
		4/4/2016	49.8	ug/L
		4/4/2016	49.8	ug/L
	ORP			
		4/4/2016	15.9	mV
		4/4/2016	15.9	mV
		4/4/2016	15.9	mV
	Oxygen, Dissolved, Dissolved			
		4/4/2016	1.45	mg/L
		4/4/2016	1.45	mg/L
		4/4/2016	1.45	mg/L

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
LD-1				
	Turbidity			
		4/4/2016	1.04	NTU
		4/4/2016	1.04	NTU
		4/4/2016	1.04	NTU
LD-2				
	1,1-Dichloroethane			
		4/4/2016	2.7	ug/L
		4/4/2016	2.7	ug/L
		4/4/2016	2.7	ug/L
	Barium			
		4/4/2016	124	ug/L
		4/4/2016	124	ug/L
		4/4/2016	124	ug/L
	Cobalt			
		4/4/2016	10.6	ug/L
		4/4/2016	10.6	ug/L
		4/4/2016	10.6	ug/L
	Field pH			
		4/4/2016	5.8	Std.
		4/4/2016	5.8	Std.
		4/4/2016	5.8	Std.
	Field Specific Conductance			
		4/4/2016	401	umh
		4/4/2016	401	umh
		4/4/2016	401	umh
	Field Temperature			
		4/4/2016	13.6	deg
		4/4/2016	13.6	deg
		4/4/2016	13.6	deg
	ORP			
		4/4/2016	-8.2	mV
		4/4/2016	-8.2	mV
		4/4/2016	-8.2	mV
	Oxygen, Dissolved, Dissolved			
		4/4/2016	2.76	mg/L
		4/4/2016	2.76	mg/L
		4/4/2016	2.76	mg/L
	Turbidity			
		4/4/2016	2.14	NTU
		4/4/2016	2.14	NTU
		4/4/2016	2.14	NTU
	Zinc			
		4/4/2016	10.2	ug/L
		4/4/2016	10.2	ug/L
		4/4/2016	10.2	ug/L

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
LD-3				
	Barium			
		4/4/2016	296	ug/L
		4/4/2016	296	ug/L
		4/4/2016	296	ug/L
	Cobalt			
		4/4/2016	25.1	ug/L
		4/4/2016	25.1	ug/L
		4/4/2016	25.1	ug/L
	Field pH			
		4/4/2016	6.1	Std.
		4/4/2016	6.1	Std.
		4/4/2016	6.1	Std.
	Field Specific Conductance			
		4/4/2016	285	umh
		4/4/2016	285	umh
		4/4/2016	285	umh
	Field Temperature			
		4/4/2016	17.3	deg
		4/4/2016	17.3	deg
		4/4/2016	17.3	deg
	Nickel			
		4/4/2016	24.1	ug/L
		4/4/2016	24.1	ug/L
		4/4/2016	24.1	ug/L
	ORP			
		4/4/2016	79.7	mV
		4/4/2016	79.7	mV
		4/4/2016	79.7	mV
	Oxygen, Dissolved, Dissolved			
		4/4/2016	5.35	mg/L
		4/4/2016	5.35	mg/L
		4/4/2016	5.35	mg/L
	Turbidity			
		4/4/2016	12.18	NTU
		4/4/2016	12.18	NTU
		4/4/2016	12.18	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
LD-4				
	1,1-Dichloroethane			
		4/4/2016	1.7	ug/L
		4/4/2016	1.7	ug/L
		4/4/2016	1.7	ug/L
	Arsenic			
		4/4/2016	11.5	ug/L
		4/4/2016	11.5	ug/L
		4/4/2016	11.5	ug/L
	Barium			
		4/4/2016	340	ug/L
		4/4/2016	340	ug/L
		4/4/2016	340	ug/L
	Benzene			
		4/4/2016	2.7	ug/L
		4/4/2016	2.7	ug/L
		4/4/2016	2.7	ug/L
	Chromium			
		4/4/2016	143	ug/L
		4/4/2016	143	ug/L
		4/4/2016	143	ug/L
	Copper			
		4/4/2016	15.6	ug/L
		4/4/2016	15.6	ug/L
		4/4/2016	15.6	ug/L
	Field pH			
		4/4/2016	5.7	Std.
		4/4/2016	5.7	Std.
		4/4/2016	5.7	Std.
	Field Specific Conductance			
		4/4/2016	166	umh
		4/4/2016	166	umh
		4/4/2016	166	umh
	Field Temperature			
		4/4/2016	18.3	deg
		4/4/2016	18.3	deg
		4/4/2016	18.3	deg
	Nickel			
		4/4/2016	29.7	ug/L
		4/4/2016	29.7	ug/L
		4/4/2016	29.7	ug/L
	ORP			
		4/4/2016	8.8	mV
		4/4/2016	8.8	mV
		4/4/2016	8.8	mV

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
LD-4				
	Oxygen, Dissolved, Dissolved			
		4/4/2016	2.91	mg/L
		4/4/2016	2.91	mg/L
		4/4/2016	2.91	mg/L
	Turbidity			
		4/4/2016	34.12	NTU
		4/4/2016	34.12	NTU
		4/4/2016	34.12	NTU
	Vinyl chloride			
		4/4/2016	1.4	ug/L
		4/4/2016	1.4	ug/L
		4/4/2016	1.4	ug/L

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
LD-5				
	Barium			
		4/4/2016	134	ug/L
		4/4/2016	134	ug/L
		4/4/2016	134	ug/L
	Cobalt			
		4/4/2016	53.2	ug/L
		4/4/2016	53.2	ug/L
		4/4/2016	53.2	ug/L
	Field pH			
		4/4/2016	6.7	Std.
		4/4/2016	6.7	Std.
		4/4/2016	6.7	Std.
	Field Specific Conductance			
		4/4/2016	721	umh
		4/4/2016	721	umh
		4/4/2016	721	umh
	Field Temperature			
		4/4/2016	17.3	deg
		4/4/2016	17.3	deg
		4/4/2016	17.3	deg
	Nickel			
		4/4/2016	16.2	ug/L
		4/4/2016	16.2	ug/L
		4/4/2016	16.2	ug/L
	ORP			
		4/4/2016	176.7	mV
		4/4/2016	176.7	mV
		4/4/2016	176.7	mV
	Oxygen, Dissolved, Dissolved			
		4/4/2016	6.96	mg/L
		4/4/2016	6.96	mg/L
		4/4/2016	6.96	mg/L
	Turbidity			
		4/4/2016	3.07	NTU
		4/4/2016	3.07	NTU
		4/4/2016	3.07	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
LD-6				
	Barium			
		4/4/2016	305	ug/L
		4/4/2016	305	ug/L
		4/4/2016	305	ug/L
	Cobalt			
		4/4/2016	28	ug/L
		4/4/2016	28	ug/L
		4/4/2016	28	ug/L
	Field pH			
		4/4/2016	6.1	Std.
		4/4/2016	6.1	Std.
		4/4/2016	6.1	Std.
	Field Specific Conductance			
		4/4/2016	566	umh
		4/4/2016	566	umh
		4/4/2016	566	umh
	Field Temperature			
		4/4/2016	18.3	deg
		4/4/2016	18.3	deg
		4/4/2016	18.3	deg
	ORP			
		4/4/2016	70	mV
		4/4/2016	70	mV
		4/4/2016	70	mV
	Oxygen, Dissolved, Dissolved			
		4/4/2016	2.29	mg/L
		4/4/2016	2.29	mg/L
		4/4/2016	2.29	mg/L
	Turbidity			
		4/4/2016	18.57	NTU
		4/4/2016	18.57	NTU
		4/4/2016	18.57	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
LEACHATE				
	2-Hexanone			
		4/4/2016	9.5	ug/L
		4/4/2016	9.5	ug/L
		4/4/2016	9.5	ug/L
	Acetone			
		4/4/2016	32.4	ug/L
		4/4/2016	32.4	ug/L
		4/4/2016	32.4	ug/L
	Antimony			
		4/4/2016	7.1	ug/L
		4/4/2016	7.1	ug/L
		4/4/2016	7.1	ug/L
	Barium			
		4/4/2016	158	ug/L
		4/4/2016	158	ug/L
		4/4/2016	158	ug/L
	Chromium			
		4/4/2016	14	ug/L
		4/4/2016	14	ug/L
		4/4/2016	14	ug/L
	Cobalt			
		4/4/2016	5.9	ug/L
		4/4/2016	5.9	ug/L
		4/4/2016	5.9	ug/L
	Field pH			
		4/4/2016	7.7	Std.
		4/4/2016	7.7	Std.
		4/4/2016	7.7	Std.
	Field Specific Conductance			
		4/4/2016	4720	umh
		4/4/2016	4720	umh
		4/4/2016	4720	umh
	Field Temperature			
		4/4/2016	18.8	deg
		4/4/2016	18.8	deg
		4/4/2016	18.8	deg
	Nickel			
		4/4/2016	48.4	ug/L
		4/4/2016	48.4	ug/L
		4/4/2016	48.4	ug/L
	ORP			
		4/4/2016	191.5	mV
		4/4/2016	191.5	mV
		4/4/2016	191.5	mV

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
LEACHATE				
	Turbidity			
		4/4/2016	82.09	NTU
		4/4/2016	82.09	NTU
		4/4/2016	82.09	NTU
	Vanadium			
		4/4/2016	6	ug/L
		4/4/2016	6	ug/L
		4/4/2016	6	ug/L

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
Leachate LD				
	Arsenic			
		4/4/2016	15.2	ug/L
		4/4/2016	15.2	ug/L
		4/4/2016	15.2	ug/L
	Barium			
		4/4/2016	20.7	ug/L
		4/4/2016	20.7	ug/L
		4/4/2016	20.7	ug/L
	Cobalt			
		4/4/2016	69	ug/L
		4/4/2016	69	ug/L
		4/4/2016	69	ug/L
	Copper			
		4/4/2016	21.9	ug/L
		4/4/2016	21.9	ug/L
		4/4/2016	21.9	ug/L
	Field pH			
		4/4/2016	5.1	Std.
		4/4/2016	5.1	Std.
		4/4/2016	5.1	Std.
	Field Specific Conductance			
		4/4/2016	483	umh
		4/4/2016	483	umh
		4/4/2016	483	umh
	Field Temperature			
		4/4/2016	13.4	deg
		4/4/2016	13.4	deg
		4/4/2016	13.4	deg
	Nickel			
		4/4/2016	444	ug/L
		4/4/2016	444	ug/L
		4/4/2016	444	ug/L
	ORP			
		4/4/2016	174.4	mV
		4/4/2016	174.4	mV
		4/4/2016	174.4	mV
	Oxygen, Dissolved, Dissolved			
		4/4/2016	7.44	mg/L
		4/4/2016	7.44	mg/L
		4/4/2016	7.44	mg/L
	Turbidity			
		4/4/2016	0.77	NTU
		4/4/2016	0.77	NTU
		4/4/2016	0.77	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
Leachate LD				
	Zinc			
		4/4/2016	184	ug/L
		4/4/2016	184	ug/L
		4/4/2016	184	ug/L

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Detections By Date Range

Buncombe County New Facility

From: 4/4/2016 ***To:*** 4/4/2016

Site ID	*Analyte*	*Date*	*Result*	
SW-1				
	Barium			
		4/4/2016	101	ug/L
	Field pH			
		4/4/2016	7.2	Std.
	Field Specific Conductance			
		4/4/2016	137	umh
	Field Temperature			
		4/4/2016	9.7	deg
	ORP			
		4/4/2016	176.3	mV
	Oxygen, Dissolved, Dissolved			
		4/4/2016	7.97	mg/L
	Turbidity			
		4/4/2016	10.54	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
SW-2				
	Barium			
		4/4/2016	42.8	ug/L
		4/4/2016	42.8	ug/L
		4/4/2016	42.8	ug/L
	Field pH			
		4/4/2016	7.2	Std.
		4/4/2016	7.2	Std.
		4/4/2016	7.2	Std.
	Field Specific Conductance			
		4/4/2016	142	umh
		4/4/2016	142	umh
		4/4/2016	142	umh
	Field Temperature			
		4/4/2016	9.4	deg
		4/4/2016	9.4	deg
		4/4/2016	9.4	deg
	ORP			
		4/4/2016	183.6	mV
		4/4/2016	183.6	mV
		4/4/2016	183.6	mV
	Oxygen, Dissolved, Dissolved			
		4/4/2016	10.6	mg/L
		4/4/2016	10.6	mg/L
		4/4/2016	10.6	mg/L
	Turbidity			
		4/4/2016	7.5	NTU
		4/4/2016	7.5	NTU
		4/4/2016	7.5	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
SW-3				
	Barium			
		4/4/2016	23	ug/L
		4/4/2016	23	ug/L
		4/4/2016	23	ug/L
	Field pH			
		4/4/2016	7.9	Std.
		4/4/2016	7.9	Std.
		4/4/2016	7.9	Std.
	Field Specific Conductance			
		4/4/2016	130	umh
		4/4/2016	130	umh
		4/4/2016	130	umh
	Field Temperature			
		4/4/2016	21.2	deg
		4/4/2016	21.2	deg
		4/4/2016	21.2	deg
	ORP			
		4/4/2016	162.1	mV
		4/4/2016	162.1	mV
		4/4/2016	162.1	mV
	Oxygen, Dissolved, Dissolved			
		4/4/2016	7.34	mg/L
		4/4/2016	7.34	mg/L
		4/4/2016	7.34	mg/L
	Turbidity			
		4/4/2016	7.69	NTU
		4/4/2016	7.69	NTU
		4/4/2016	7.69	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
SW-4				
	Barium			
		4/4/2016	87.3	ug/L
		4/4/2016	87.3	ug/L
		4/4/2016	87.3	ug/L
	Field pH			
		4/4/2016	7.5	Std.
		4/4/2016	7.5	Std.
		4/4/2016	7.5	Std.
	Field Specific Conductance			
		4/4/2016	394	umh
		4/4/2016	394	umh
		4/4/2016	394	umh
	Field Temperature			
		4/4/2016	13.4	deg
		4/4/2016	13.4	deg
		4/4/2016	13.4	deg
	ORP			
		4/4/2016	160.1	mV
		4/4/2016	160.1	mV
		4/4/2016	160.1	mV
	Oxygen, Dissolved, Dissolved			
		4/4/2016	8.17	mg/L
		4/4/2016	8.17	mg/L
		4/4/2016	8.17	mg/L
	Turbidity			
		4/4/2016	52.37	NTU
		4/4/2016	52.37	NTU
		4/4/2016	52.37	NTU
	Zinc			
		4/4/2016	17.7	ug/L
		4/4/2016	17.7	ug/L
		4/4/2016	17.7	ug/L

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
SW-5				
	Antimony			
		4/4/2016	5.9	ug/L
		4/4/2016	5.9	ug/L
		4/4/2016	5.9	ug/L
	Barium			
		4/4/2016	131	ug/L
		4/4/2016	131	ug/L
		4/4/2016	131	ug/L
	Chromium			
		4/4/2016	13.5	ug/L
		4/4/2016	13.5	ug/L
		4/4/2016	13.5	ug/L
	Cobalt			
		4/4/2016	8.9	ug/L
		4/4/2016	8.9	ug/L
		4/4/2016	8.9	ug/L
	Field pH			
		4/4/2016	7.3	Std.
		4/4/2016	7.3	Std.
		4/4/2016	7.3	Std.
	Field Specific Conductance			
		4/4/2016	2890	umh
		4/4/2016	2890	umh
		4/4/2016	2890	umh
	Field Temperature			
		4/4/2016	13.5	deg
		4/4/2016	13.5	deg
		4/4/2016	13.5	deg
	Nickel			
		4/4/2016	30	ug/L
		4/4/2016	30	ug/L
		4/4/2016	30	ug/L
	ORP			
		4/4/2016	189.5	mV
		4/4/2016	189.5	mV
		4/4/2016	189.5	mV
	Oxygen, Dissolved, Dissolved			
		4/4/2016	8.3	mg/L
		4/4/2016	8.3	mg/L
		4/4/2016	8.3	mg/L
	Turbidity			
		4/4/2016	9.82	NTU
		4/4/2016	9.82	NTU
		4/4/2016	9.82	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
SW-6				
	Barium			
		4/4/2016	72.2	ug/L
		4/4/2016	72.2	ug/L
		4/4/2016	72.2	ug/L
	Field pH			
		4/4/2016	7.5	Std.
		4/4/2016	7.5	Std.
		4/4/2016	7.5	Std.
	Field Specific Conductance			
		4/4/2016	238	umh
		4/4/2016	238	umh
		4/4/2016	238	umh
	Field Temperature			
		4/4/2016	12.4	deg
		4/4/2016	12.4	deg
		4/4/2016	12.4	deg
	ORP			
		4/4/2016	142	mV
		4/4/2016	142	mV
		4/4/2016	142	mV
	Oxygen, Dissolved, Dissolved			
		4/4/2016	10.03	mg/L
		4/4/2016	10.03	mg/L
		4/4/2016	10.03	mg/L
	Turbidity			
		4/4/2016	5.76	NTU
		4/4/2016	5.76	NTU
		4/4/2016	5.76	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte	Date	Result	
SW-7				
	Barium			
		4/4/2016	70.6	ug/L
		4/4/2016	70.6	ug/L
		4/4/2016	70.6	ug/L
	Field pH			
		4/4/2016	7.1	Std.
		4/4/2016	7.1	Std.
		4/4/2016	7.1	Std.
	Field Specific Conductance			
		4/4/2016	301	umh
		4/4/2016	301	umh
		4/4/2016	301	umh
	Field Temperature			
		4/4/2016	11.4	deg
		4/4/2016	11.4	deg
		4/4/2016	11.4	deg
	Nickel			
		4/4/2016	6.2	ug/L
		4/4/2016	6.2	ug/L
		4/4/2016	6.2	ug/L
	ORP			
		4/4/2016	180.5	mV
		4/4/2016	180.5	mV
		4/4/2016	180.5	mV
	Oxygen, Dissolved, Dissolved			
		4/4/2016	9.19	mg/L
		4/4/2016	9.19	mg/L
		4/4/2016	9.19	mg/L
	Turbidity			
		4/4/2016	8.4	NTU
		4/4/2016	8.4	NTU
		4/4/2016	8.4	NTU

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Attachment E

Exceedances by Date Range

Buncombe County New Facility

From: 4/6/2016 ***To:*** 4/8/2016

Site ID	*Analyte*			*Date*	*Result*	
MW-1						
	Iron					
	MCL:	300	ug/L			
				4/8/2016	1140	ug/L
	Vanadium					
	MCL:	0.3	ug/L			
				4/8/2016	5.3	ug/L
MW-12						
	Antimony					
	MCL:	1	ug/L			
				4/7/2016	5.8	ug/L
	Iron					
	MCL:	300	ug/L			
				4/7/2016	385	ug/L
	Manganese					
	MCL:	50	ug/L			
				4/7/2016	423	ug/L
	Sulfate					
	MCL:	250000	ug/L			
				4/7/2016	264000 M6	ug/L
MW-12D						
	Iron					
	MCL:	300	ug/L			
				4/7/2016	1520	ug/L
	Manganese					
	MCL:	50	ug/L			
				4/7/2016	71.9	ug/L
	Vanadium					
	MCL:	0.3	ug/L			
				4/7/2016	5.5	ug/L
MW-13						
	Cobalt					
	MCL:	1	ug/L			
				4/6/2016	44.2	ug/L

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.

Site ID	Analyte		Date	Result
MW-13D				
	Cobalt			
	MCL:	1 ug/L		
			4/6/2016	31.8 ug/L
MW-14				
	Chromium			
	MCL:	10 ug/L		
			4/7/2016	13 ug/L
	Iron			
	MCL:	300 ug/L		
			4/7/2016	5130 ug/L
	Vanadium			
	MCL:	0.3 ug/L		
			4/7/2016	24.2 ug/L
MW-15D				
	Iron			
	MCL:	300 ug/L		
			4/7/2016	400 ug/L
	Manganese			
	MCL:	50 ug/L		
			4/7/2016	292 ug/L
MW-15S				
	Cobalt			
	MCL:	1 ug/L		
			4/7/2016	66 ug/L
	Iron			
	MCL:	300 ug/L		
			4/7/2016	7530 ug/L
	Manganese			
	MCL:	50 ug/L		
			4/7/2016	7780 ug/L
MW-1D				
	Iron			
	MCL:	300 ug/L		
			4/8/2016	534 ug/L

I = The reported value is between the laboratory method detection limit and the laboratory practical quatitation limit.
V = Indicates the anlyte was detected in both the sample and the associated method blank.