

Ground Water Monitoring Report

Spring 2012 Monitoring Event

Davidson County

**Construction & Demolition Debris Landfill
Lexington, North Carolina
NC Solid Waste Permit # 29-06**

Prepared for:

Davidson County Integrated Solid Waste

1242 Old Highway 29
Thomasville, NC 27360-0024

June 2012



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Davidson County C&D Landfill
Ground Water Monitoring Report
Spring 2012 Monitoring Event

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1.0 INTRODUCTION

Richardson Smith Gardner & Associates, Inc. (RSG) was contracted by Davidson County to perform their semi-annual ground water monitoring event at the Davidson County C&D Landfill, permit number 29-02, as required by 15A NCAC 13B .0600. Sampling was conducted March 27, 2012. The following report summarizes the event sampling procedures, field and laboratory results and ground water characterization as required by NC Solid Waste Regulations. Summary tables, a potentiometric map and the laboratory analytical report are also included.

2.0 SITE GEOLOGY

The Davidson County Landfill facility is located in the Piedmont Physiographic Province of North Carolina approximately three and a half miles northeast of the City of Lexington, NC. The Geologic Map of North Carolina (*USGS, 1985*) indicates the site lies at the western margin of the Carolina Slate Belt; 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 vicinity is underlain by volcanic rocks from the Flat Swamp Member of the Cid Formation and metavolcanic rocks of the Battleground Formation. This region also has numerous intrusions of metagabbro and metabasalt dikes and conformable sheets. This metagabbro typically crops out as round residual boulders that show no foliation except in the Gold Hill/Silver Hill shear zone.

The encountered lithology includes sandy silt and partially weathered rock. For this report partially weathered rock is defined as soils with a standard penetration test blow count of 100+ blows per foot.

3.0 MONITORING EVENT

3.1 Sampling Locations

Ground water sampling at the Davidson County C&D landfill was performed at five down-gradient ground water monitoring well locations (CDMW-2, CDMW-3, CDMW-5, CDMW-6 and CDMW-7). No surface water monitoring locations have been established for this site. A trip blank (TB) was also submitted for quality control purposes.

Please note, due to Phase 3 C&D landfill construction, CDMW-4A was abandoned in early 2011 and two new monitoring wells, CDMW-6 and CDMW-7 were installed in November 2010.

Sampling locations are shown on **Figure 1**. Boring logs and construction records are provided in **Appendix B**.

3.2 Sampling Procedures

Sampling procedures followed the protocols set forth in the site's Sampling and Analysis Plan¹

¹ Davidson County C&D Landfill Water Quality Monitoring Plan. G.N. Richardson and Associates, June 1998.

and the North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities (North Carolina Department of Environment and Natural Resources, Division of Waste Management). Each well was gauged to determine ground water depth then purged three to five well volumes or until dry. Purged wells were allowed to stabilize prior to sample collection. Ground water purging and sample collection was performed using a factory sealed Teflon™ bailer.

Field measurements (temperature, pH, turbidity and conductivity) were recorded at each well. Groundwater elevations and field measurements are summarized in **Table 1** and **Table 2**, respectively.

Environment 1, Inc., in Greenville, NC, (NC Laboratory Certification # 10) provided laboratory prepared sample containers for the specified analytical procedures. Ground water samples were properly preserved, placed on ice and transported to the laboratory facility within the specified hold times for each analysis.

During the sampling process, wells were inspected for signs of damage or unusual conditions.

4.0 FIELD AND LABORATORY RESULTS

Field parameter measurements were consistent with previous sampling events. These data are summarized in **Table 2** and field data sheets are included in **Appendix A**.

Sample analysis indicated detections above the Solid Waste Section Limit (SWSL)² of barium, iron and manganese. The results are summarized in **Table 3**. Two inorganic constituents were detected above their 15A NCAC 2L.0200 (2L) Standard:

- Iron (CDMW-3, CDMW-6 & CDMW-7) and
- Manganese (CDMW-3, CDMW-5, CDMW-6 & CDMW-7).

These inorganic constituents are naturally occurring in the soils and groundwater of North Carolina. The reported concentrations are likely due to sample turbidity which can yield “biased high” results of naturally occurring constituents. No organic constituents were detected above the SWSL or 2L Standard. The laboratory report is included in **Appendix C**.

5.0 GROUND WATER CHARACTERIZATION

A potentiometric surface map was created from ground water elevation data collected during this sampling event. Ground water at the C&D landfill flows in a generally northern direction. An ephemeral to perennial stream is located east and northeast of the C&D landfill. The potentiometric surface for the landfill property is shown on **Figure 1**.

² New Guidelines for electronic submittal of environmental monitoring data memo, NCDENR DWM, Solid Waste Section, October 27, 2006.

6.0 CONCLUSIONS

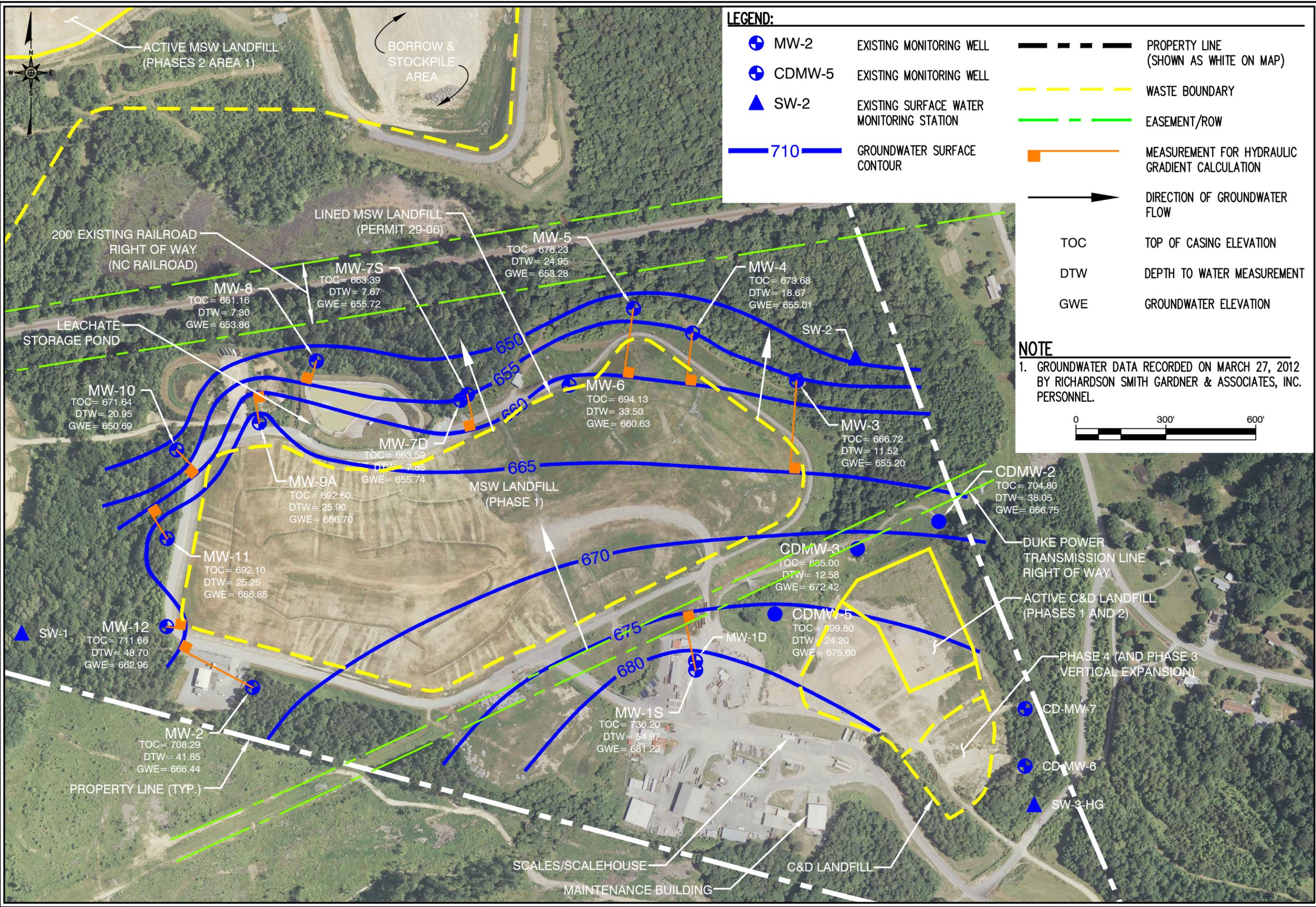
C&D landfill analytical results indicate three inorganic constituents were detected in samples at concentrations above the SWSL, with iron and manganese detected above the 2L standard in groundwater standards. These are likely due variations in these naturally occurring constituents and are not indicative of ground water impact from the landfill. The next ground water monitoring event is scheduled for September 2012. A monitoring report will be submitted after receipt of analytical data from that event.

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Figures

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G:\CAD\Davidson\Davidco-1\sheets\DAVDCO-B0693.dwg - 6/1/2012 9:59 AM



LEGEND:

- ⊕ MW-2 EXISTING MONITORING WELL
- ⊕ CDMW-5 EXISTING MONITORING WELL
- ▲ SW-2 EXISTING SURFACE WATER MONITORING STATION
- 710 GROUNDWATER SURFACE CONTOUR
- PROPERTY LINE (SHOWN AS WHITE ON MAP)
- WASTE BOUNDARY
- EASEMENT/ROW
- MEASUREMENT FOR HYDRAULIC GRADIENT CALCULATION
- DIRECTION OF GROUNDWATER FLOW
- TOC TOP OF CASING ELEVATION
- DTW DEPTH TO WATER MEASUREMENT
- GWE GROUNDWATER ELEVATION

NOTE

1. GROUNDWATER DATA RECORDED ON MARCH 27, 2012 BY RICHARDSON SMITH GARDNER & ASSOCIATES, INC. PERSONNEL.



RICHARDSON SMITH GARDNER & ASSOCIATES
INC. LIC. NO. C-0828 (Engineering)
 www.rsgengineers.com

ph: 919-926-0577
 fax: 919-926-3899

FIGURE NO.	2	FILE NAME	DAVDCO-B0693
SCALE:	AS SHOWN	PROJECT NO.	DAVDCO-1
CHECKED BY:	M.M.G.	DATE:	Jun. 2012
DRAWN BY:	C.T.J.		

TITLE:
 POTENTIOMETRIC SURFACE MAP
 SPRING 2012
 CLOSED PHASE 1 AND C&D
 DAVIDSON COUNTY, NC

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Tables

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Table 1
Ground Water Elevations
Davidson County C&D Landfill
3/27/2012

Well	Northing	Easting	TOC Elevation (feet)	Water Level (feet)	GW Elev (feet)
CDMW-2	763805.91	1651700.59	704.80	38.05	666.75
CDMW-3	763715.69	1651429.31	685.00	12.58	672.42
CDMW-5	763497.87	1651153.73	699.80	24.20	675.60
CDMW-6	NA	NA	NA	13.20	NA
CDMW-7	NA	NA	NA	30.00	NA

- Survey data reported by Michael Green and Associates.
- CDMW-4 was abandoned and new monitoring locations CDMW-6 and CDMW-7 were installed.
- CDMW-6 and 7 have not yet been surveyed, estimated locations provided on Figure 1.

Table 2
Field Parameters
Davidson County C&D Landfill
3/27/2012

Well	pH (Std Units)	Conductivity (uhmos/cm)	Temperature (Celsius)	Turbidity (NTU)
CDMW-2	NM	NM	13.5	13.4
CDMW-3	NM	NM	13.9	33.8
CDMW-5	NM	NM	14.1	5
CDMW-6	NM	NM	14.1	59.2
CDMW-7	NM	NM	13.8	13.7

Notes: - Data Collected by Don Misenheimer of RSG Engineers Inc.
- CDMW-4 was abandoned and new monitoring locations CDMW-6 and CDMW-7 were installed prior to sampling.
NM - Not Measured

Table 3
Detected Inorganic Parameters
Davidson County C&D Landfill
3/27/2012

Constituent	SWSL	2L or GWP	MDL	CDMW-2	CDMW-3	CDMW-5	CDMW-6	CDMW-7
total alkalinity	NE	NE	1000	31000	194000	82000	43000	120000
chloride	NE	250000	5000	11000	55000	33000	24000	16000
sulfate	250000	250000	5000	28700 J	142000 J	30900 J	46100 J	21400 J
antimony	6	1 [§]	0.14	<0.14	<0.14	<0.14	<0.14	0.27 J
arsenic	10	10	0.10	<0.10	0.38 J	<0.10	0.19 J	<0.10
barium	100	700	0.02	39.8 J	145	45.2 J	7.3 J	10.3 J
beryllium	1	4 [§]	0.02	<0.02	<0.02	<0.02	0.07 J	0.07 J
cadmium	1	2	0.02	0.05 J	0.06 J	0.06 J	0.04 J	0.10 J
cobalt	10	1 [§]	0.03	0.05 J	1.3 J	1.1 J	0.43 J	1.5 J
copper	10	1000	0.02	0.40 J	6.4 J	0.91 J	1.1 J	12
total chromium	10	10	0.04	0.19 J	0.84 J	0.23 J	1.5 J	3.5 J
iron	300	300	15.9	85 J	2096	155 J	1388	3840
manganese	50	50	0.61	7 J	88	112	70	80
lead	10	15	0.02	0.04 J	0.49 J	0.04 J	1.0 J	1.5 J
nickel	50	100	0.04	0.62 J	5.2 J	2.6 J	2.3 J	3.0 J
selenium	10	20	0.20	0.35 J	1.2 J	0.45 J	<0.20	0.30 J
silver	10	20	0.02	<0.02	0.06 J	<0.02	<0.02	<0.02
vanadium	25	0.3 [§]	0.14	1.4 J	7.9 J	3.6 J	4.7 J	11.1 J
zinc	10	1000	0.24	1.4 J	6.8 J	2.8 J	5.7 J	10

- SWSL - Solid Waste Section Quantitation Limits
- 2L - Groundwater Standards (15A NCAC 2L 0200)
- GWP - Groundwater Protection Standards (noted by [§])
- MDL - Method Detection Limit
- Shading - Detection above 2L standard or GWP standard
- Bold Letters - Constituents detected above SWSL
- J - Detected between MDL and SWSL limit
- ND - Not detected at or above MDL

Table units are presented in ug/l.
Lab data analysis by Environment 1, Inc. report dated 4/20/2012, ID#6050.

Table 4
Detected Organic Parameters
Davidson County C&D Landfill
3/27/2012

Constituent	SWSL	2L	MDL	CDMW-2	CDMW-3
acetone	100	6000	9.06	19.6 J	<9.06
1,1-dichloroethane	5	6	0.20	<0.20	0.4 J
tetrahydrofuran	NE	NE	0.39	<0.39	23.2

- SWSL - Solid Waste Section Quantitation Limits
- 2L - Groundwater Standards (15A NCAC 2L 0200)
- MDL - Method Detection Limit
- Shading - Detection above 2L Standard
- Bold Letters - Constituents detected above SWSL
- J - Detected between MDL and SWSL limit
- ND - Not detected at or above MDL

Table units are presented in ug/l.

Lab data analysis by Environment 1, Inc. report dated 4/20/2012, ID#6050.

Appendix A

Field Data Sheets

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Groundwater Monitoring Well Inspection Checklist

This checklist is provided to inform our clients about the health and maintenance of their groundwater monitoring wells. This checklist provides no information pertaining to groundwater quality, but focuses on the physical characteristics of the well and its vicinity.

Site: Davidson (C+D)

Date: 3-26-12

Well ID: MW-1

Initials: MD

Please mark the appropriate box for the following areas of concern. If you answer NO, please explain in the comment box.

		YES	NO
1. Well Vicinity			
A.	Well is assessable and surrounding area is safe for employees.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B.	Vicinity is free of potential contaminants.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C.	Dead trees, etc. not in danger of falling and damaging wells.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D.	Well is in the same location as on field maps.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E.		<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed:			
<i>o.k.</i>			

		YES	NO
2. Concrete Apron and Steel Case			
A.	Concrete apron is present and in good condition.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B.	Steel case is present and upright.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C.	Steel case is not movable and cemented in.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D.	Steel case lid opens and closes correctly with no gaps. Lock can be easily applied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E.	Well tag is present with pertinent information.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
F.	Well numbers are prominently displayed (Reflective address numbers, etc.).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
G.	No evidence of tampering is present.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H.	Lock operates properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
I.		<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed:			
<i>o.k.</i>			

		YES	NO
3. PVC Riser			
A.	Monitoring cap is present and provides a tight seal.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B.	Riser is of appropriate height (has not been cut off too low within the steel case).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C.	Riser is not loose/ easily moved.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D.	Riser does not appear cracked, broken, or brittle.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E.	No visual sign of external contamination entering well through riser.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
F.		<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed:			
<i>o.k.</i>			

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Site: DAVIDSON C&D

Date: 3-26-12

Well ID: MW-2

Initials: MD

Please mark the appropriate box for the following areas of concern. If you answer NO, please explain in the comment box.

		YES	NO
1. Well Vicinity			
A.	Well is assessable and surrounding area is safe for employees.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B.	Vicinity is free of potential contaminants.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C.	Dead trees, etc. not in danger of falling and damaging wells.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D.	Well is in the same location as on field maps.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E.		<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed:			
<i>o.k.</i>			

		YES	NO
2. Concrete Apron and Steel Case			
A.	Concrete apron is present and in good condition.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B.	Steel case is present and upright.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C.	Steel case is not movable and cemented in.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D.	Steel case lid opens and closes correctly with no gaps. Lock can be easily applied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E.	Well tag is present with pertinent information.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
F.	Well numbers are prominently displayed (Reflective address numbers, etc.).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
G.	No evidence of tampering is present.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H.	Lock operates properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
I.		<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed:			
<i>o.k.</i>			

		YES	NO
3. PVC Riser			
A.	Monitoring cap is present and provides a tight seal.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B.	Riser is of appropriate height (has not been cut off too low within the steel case).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C.	Riser is not loose/ easily moved.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D.	Riser does not appear cracked, broken, or brittle.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E.	No visual sign of external contamination entering well through riser.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
F.		<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed:			
<i>o.k.</i>			

Groundwater Monitoring Well Inspection Checklist

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Site: DAVIDSON (C+D) Date: 3-26-12
 Well ID: MW-3 Initials: MD

Please mark the appropriate box for the following areas of concern. If you answer NO, please explain in the comment box.

	YES	NO
1. Well Vicinity		
A. Well is assessable and surrounding area is safe for employees.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B. Vicinity is free of potential contaminants.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C. Dead trees, etc. not in danger of falling and damaging wells.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D. Well is in the same location as on field maps.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E.	<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed: <p style="text-align:center;"><i>o.k.</i></p>		

	YES	NO
2. Concrete Apron and Steel Case		
A. Concrete apron is present and in good condition.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B. Steel case is present and upright.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C. Steel case is not movable and cemented in.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D. Steel case lid opens and closes correctly with no gaps. Lock can be easily applied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E. Well tag is present with pertinent information.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
F. Well numbers are prominently displayed (Reflective address numbers, etc.).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
G. No evidence of tampering is present.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H. Lock operates properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
I.	<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed: <p style="text-align:center;"><i>o.k.</i></p>		

	YES	NO
3. PVC Riser		
A. Monitoring cap is present and provides a tight seal.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B. Riser is of appropriate height (has not been cut off too low within the steel case).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C. Riser is not loose/ easily moved.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D. Riser does not appear cracked, broken, or brittle.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E. No visual sign of external contamination entering well through riser.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
F.	<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed: <p style="text-align:center;"><i>o.k.</i></p>		

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Site: DAVIDSON (C4D) Date: 3-26-12
 Well ID: MW-5 Initials: MD

Please mark the appropriate box for the following areas of concern. If you answer NO, please explain in the comment box.

	YES	NO
1. Well Vicinity		
A. Well is assessable and surrounding area is safe for employees.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B. Vicinity is free of potential contaminants.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C. Dead trees, etc. not in danger of falling and damaging wells.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D. Well is in the same location as on field maps.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E.	<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed: <p style="text-align:center; font-size: 1.2em;"><i>o.k.</i></p>		

	YES	NO
2. Concrete Apron and Steel Case		
A. Concrete apron is present and in good condition.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B. Steel case is present and upright.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C. Steel case is not movable and cemented in.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D. Steel case lid opens and closes correctly with no gaps. Lock can be easily applied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E. Well tag is present with pertinent information.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
F. Well numbers are prominently displayed (Reflective address numbers, etc.).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
G. No evidence of tampering is present.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H. Lock operates properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
I.	<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed: <p style="text-align:center; font-size: 1.2em;"><i>o.k.</i></p>		

	YES	NO
3. PVC Riser		
A. Monitoring cap is present and provides a tight seal.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B. Riser is of appropriate height (has not been cut off too low within the steel case).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C. Riser is not loose/ easily moved.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D. Riser does not appear cracked, broken, or brittle.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E. No visual sign of external contamination entering well through riser.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
F.	<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed: <p style="text-align:center; font-size: 1.2em;"><i>o.k.</i></p>		

Groundwater Monitoring Well Inspection Checklist

This checklist is provided to inform our clients about the health and maintenance of their groundwater monitoring wells. This checklist provides no information pertaining to groundwater quality, but focuses on the physical characteristics of the well and its vicinity.

Site: DAVIDSON (L+D) Date: 3-26-12
 Well ID: MW-6 Initials: AD

Please mark the appropriate box for the following areas of concern. If you answer NO, please explain in the comment box.

	YES	NO
1. Well Vicinity		
A. Well is assessable and surrounding area is safe for employees.	<input checked="" type="checkbox"/>	
B. Vicinity is free of potential contaminants.	<input checked="" type="checkbox"/>	
C. Dead trees, etc. not in danger of falling and damaging wells.	<input checked="" type="checkbox"/>	
D. Well is in the same location as on field maps.	<input checked="" type="checkbox"/>	
E.		
Comments/ items addressed or to be addressed: <p style="text-align:center; font-size: 1.2em;">o.k.</p>		

	YES	NO
2. Concrete Apron and Steel Case		
A. Concrete apron is present and in good condition.	<input checked="" type="checkbox"/>	
B. Steel case is present and upright.	<input checked="" type="checkbox"/>	
C. Steel case is not movable and cemented in.	<input checked="" type="checkbox"/>	
D. Steel case lid opens and closes correctly with no gaps. Lock can be easily applied.	<input checked="" type="checkbox"/>	
E. Well tag is present with pertinent information.	<input checked="" type="checkbox"/>	
F. Well numbers are prominently displayed (Reflective address numbers, etc.).	<input checked="" type="checkbox"/>	
G. No evidence of tampering is present.	<input checked="" type="checkbox"/>	
H. Lock operates properly.	<input checked="" type="checkbox"/>	
I.		
Comments/ items addressed or to be addressed: <p style="text-align:center; font-size: 1.2em;">o.k.</p>		

	YES	NO
3. PVC Riser		
A. Monitoring cap is present and provides a tight seal.	<input checked="" type="checkbox"/>	
B. Riser is of appropriate height (has not been cut off too low within the steel case).	<input checked="" type="checkbox"/>	
C. Riser is not loose/ easily moved.	<input checked="" type="checkbox"/>	
D. Riser does not appear cracked, broken, or brittle.	<input checked="" type="checkbox"/>	
E. No visual sign of external contamination entering well through riser.	<input checked="" type="checkbox"/>	
F.		
Comments/ items addressed or to be addressed: <p style="text-align:center; font-size: 1.2em;">o.k.</p>		

Groundwater Monitoring Well Inspection Checklist

This checklist is provided to inform our clients about the health and maintenance of their groundwater monitoring wells. This checklist provides no information pertaining to groundwater quality, but focuses on the physical characteristics of the well and its vicinity.

Site: DAVIDSON (L+D) Date: 3-26-12
 Well ID: MW-7 Initials: MD

Please mark the appropriate box for the following areas of concern. If you answer NO, please explain in the comment box.

		YES	NO
1. Well Vicinity			
A.	Well is assessable and surrounding area is safe for employees.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B.	Vicinity is free of potential contaminants.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C.	Dead trees, etc. not in danger of falling and damaging wells.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D.	Well is in the same location as on field maps.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E.		<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed:			
O.K.			

		YES	NO
2. Concrete Apron and Steel Case			
A.	Concrete apron is present and in good condition.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B.	Steel case is present and upright.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C.	Steel case is not movable and cemented in.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D.	Steel case lid opens and closes correctly with no gaps. Lock can be easily applied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E.	Well tag is present with pertinent information.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
F.	Well numbers are prominently displayed (Reflective address numbers, etc.).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
G.	No evidence of tampering is present.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H.	Lock operates properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
I.		<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed:			
O.K.			

		YES	NO
3. PVC Riser			
A.	Monitoring cap is present and provides a tight seal.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B.	Riser is of appropriate height (has not been cut off too low within the steel case).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C.	Riser is not loose/ easily moved.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D.	Riser does not appear cracked, broken, or brittle.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E.	No visual sign of external contamination entering well through riser.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
F.		<input type="checkbox"/>	<input type="checkbox"/>
Comments/ items addressed or to be addressed:			
O.K.			

Appendix B

Monitoring Well Information

T IS A E INTENTIONALL LE T BLAN

FIELD BOREHOLE LOG		BOREHOLE NUMBER B-6
PROJECT NUMBER: Davdco-14 PROJECT NAME: Davideon 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		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		
DATE COMPLETED: 7/16/98		Depth(Ft) - Time - Date: -

DEPTH	BLDN COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION	DEPTH	LITHOLOGY	WELL INSTALLATION
1.0							AR	<p>SAND: Tan orange fine to medium with some coarse sand mottled with iron and manganese, SP.</p>	1.0		
0.0									0.0		
1.0									1.0		
2.0									2.0		
3.0	10	Ss	S1						3.0		
4.0	15								4.0		
5.0	18								5.0		
6.0									6.0		
7.0									7.0		
8.0	17	Ss	S2						8.0		
9.0	26								9.0		
10.0	34								10.0		
11.0									11.0		
12.0								12.0			
13.0	50/5	Ss	S3					13.0			
14.0								14.0			
15.0								15.0			
16.0								16.0			
17.0								17.0			
18.0	50/4	Ss	S4					18.0			
19.0								19.0			
20.0								20.0			
21.0								21.0			
22.0								22.0			
23.0							AH	23.0			
24.0								24.0			

GRANITE: Tan and gray granite. Dry.

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 DEGREEE6 FIELD PARTY: R. Barron GEOLGIST: P. May DATE BEGUN: 7/16/98	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	BLOG COUNTS	SAMPLING METHOD	SAMPLE NUMBER	MOISTURE	CONSISTANCY	SAMPLE RECOVERY	DRILL METHOD	LITHOLOGY DESCRIPTION	DEPTH	LITHOLOGY	WELL INSTALLATION
25.0								GRANITE: Tan and gray granite. Dry.	25.0		
26.0							26.0				
27.0							27.0				
28.0		G	S5				28.0				
29.0							29.0				
30.0							30.0				
31.0							31.0				
32.0							32.0				
33.0		G	S6				33.0				
34.0							34.0				
35.0							35.0				
36.0							36.0				
37.0							37.0				
38.0		G	S7				38.0				
39.0							39.0				
40.0							40.0				
41.0							41.0				
42.0							42.0				
43.0		G	S8				43.0				
44.0							44.0				
45.0							45.0				
46.0							46.0				
47.0							47.0				
48.0		G	S9				48.0				
49.0							49.0				
50.0							50.0				
51.0							51.0				
									GRANITE: Gray and tan granite. Darker than above. Water seam at 51 feet. Boring terminated.		



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

FIELD BOREHOLE LOG

BOREHOLE NUMBER **CDMW-4a** Page 1 of 2

PROJECT NAME: **Davidson County C&D Landfill**
 LOCATION: **Lexington, NC**
 DRILLING CO: **Engineering Tectonics, P.A.**
 DRILLING METHOD: **AR/AH**
 FIELD PARTY: **R. Barron**
 GEOLOGIST: **J. Smyth**
 DATE BEGUN: **1/24/06** COMPLETED: **1/24/06**

TOTAL DEPTH: **78**
 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
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0.0				AR	SAND: Highly weathered partially weathered rock, granitic sand rock, dry. Auger refusal at 17 feet		0.0	
1.0								
2.0								
3.0								
4.0								
5.0		Grab						
6.0								
7.0								
8.0								
9.0								
10.0		Grab						
11.0								
12.0								
13.0								
14.0								
15.0		Grab						
16.0								
17.0				AH	GRANITE: Weathered granite, dry.		17.0	
18.0								
19.0								
20.0								
21.0								
22.0		Grab						
23.0								
24.0								
25.0								
26.0								
27.0								
28.0		Grab						
29.0								
30.0		Grab						
31.0					SANDY SILT: Soil seam of sandy silt, dry.		31.0	
32.0								
33.0								
34.0		Grab						
35.0								
36.0								
37.0		Grab						
38.0								
39.0								



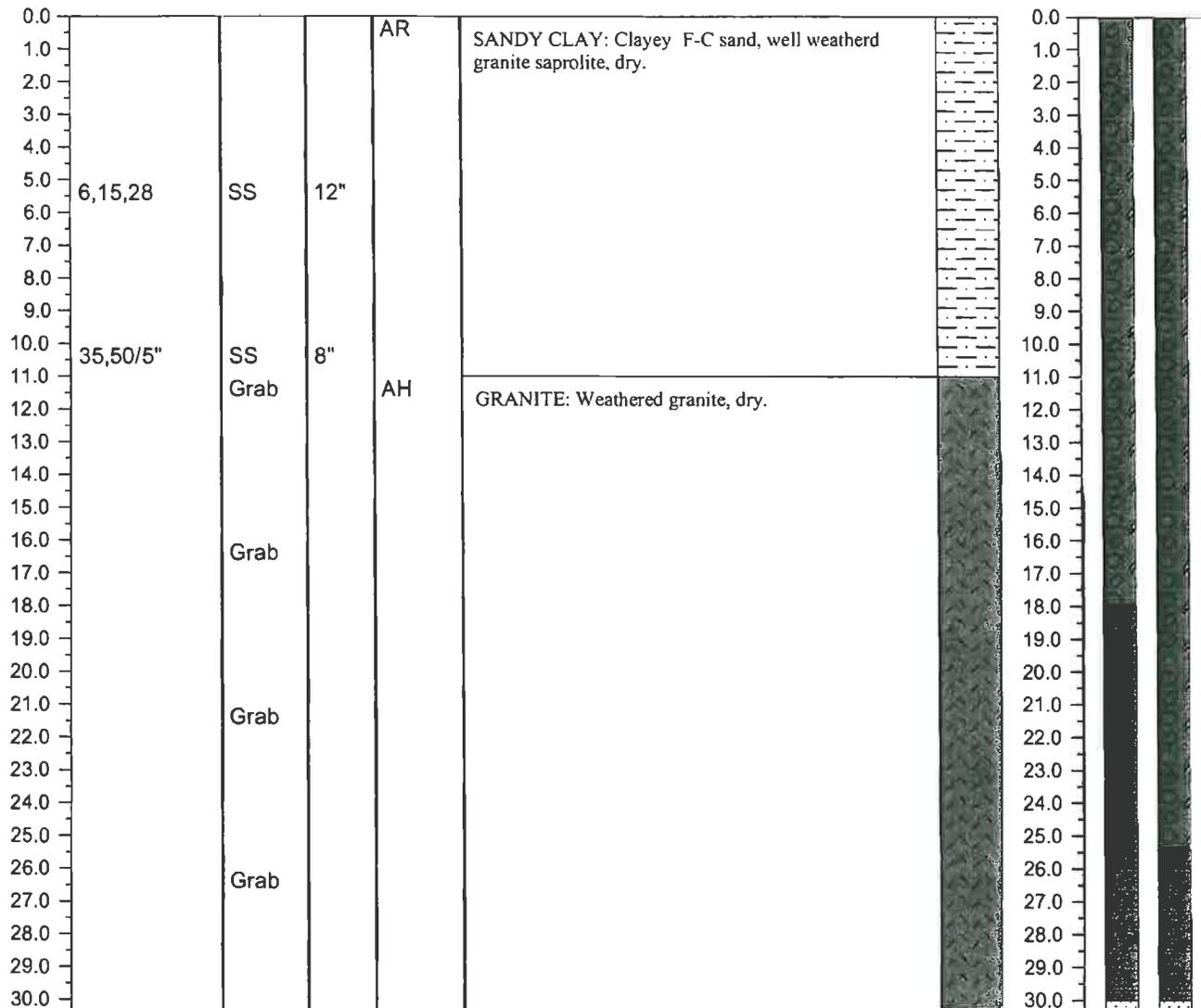
FIELD BOREHOLE LOG

PROJECT NAME: **Davidson County C&D Landfill**
 LOCATION: **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
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(919) 828-0577

FIELD BOREHOLE LOG

BOREHOLE NUMBER CDMW-5

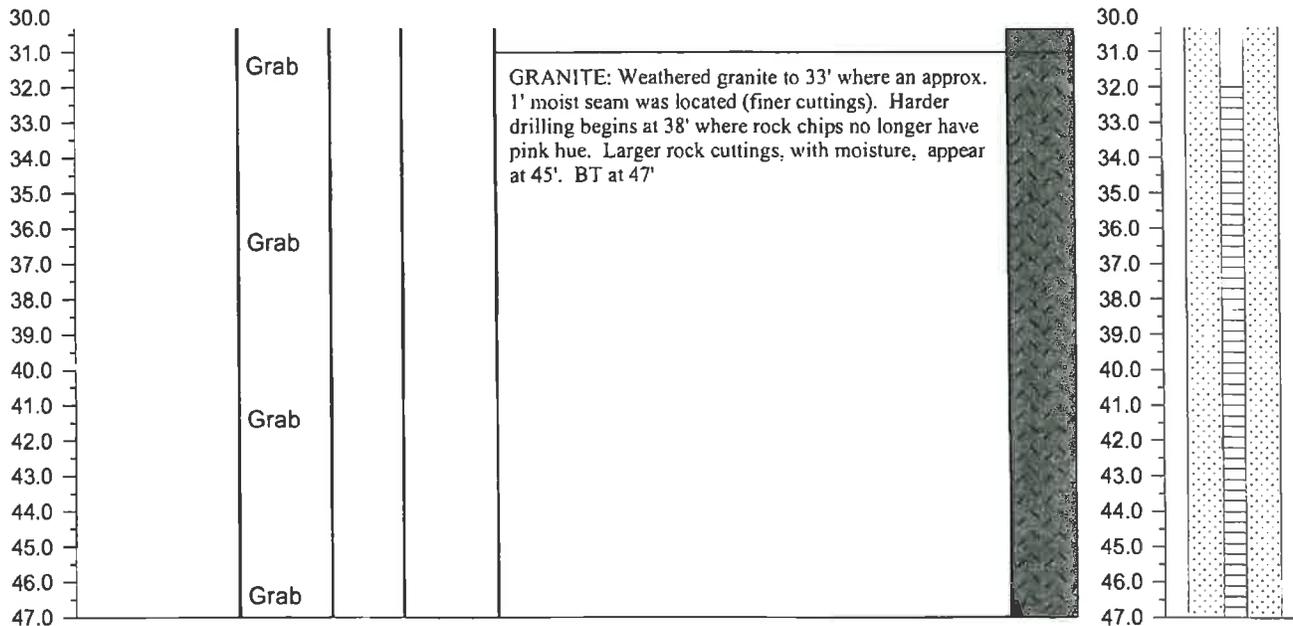
Page 2 of 2

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
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T IS A E INTENTIONALL LE T BLAN

Appendix C

Laboratory Analytical Report

T IS A E INTENTIONALL LE T BLAN

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6050

DAVIDSON COUNTY LANDFILL (C&D)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
133 SPRING AVENUE
FUQUAY VARINA ,NC 27526

DATE COLLECTED: 03/27/12
DATE REPORTED : 04/20/12

REVIEWED BY: 

PARAMETERS	MDL	SWSL	CDMW-2	CDMW-3	CDMW-5	CDMW-6	CDMW-7	Analysis Date	Method Analyst Code
Total Alkalinity, mg/l	1.0	1.0	31	194	82	43	120	03/30/12TRB	SM2320B
Chloride, mg/l	5.0	5.0	11	55	33	24	16	04/03/12HLB	SM4500-CLB
Total Dissolved Residue, mg/l	1.0	1.0	161	501	252	161	215	04/02/12MEL	SM2540C
Sulfate, mg/l	5.0	250.0	28.7 J	142 J	30.9 J	46.1 J	21.4 J	04/02/12TRB	SM426C
Antimony, ug/l	0.14	6.0	--- U	--- U	--- U	--- U	0.27 J	04/03/12CMF	EPA200.8
Arsenic, ug/l	0.10	10.0	--- U	0.38 J	--- U	0.19 J	--- U	04/03/12CMF	EPA200.8
Barium, ug/l	0.02	100.0	39.8 J	145	45.2 J	7.3 J	10.3 J	04/03/12CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	--- U	--- U	--- U	0.07 J	0.07 J	04/03/12CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.05 J	0.06 J	0.06 J	0.04 J	0.10 J	04/03/12CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	0.05 J	1.3 J	1.1 J	0.43 J	1.5 J	04/03/12CMF	EPA200.8
Copper, ug/l	0.02	10.0	0.40 J	6.4 J	0.91 J	1.1 J	12	04/03/12CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	0.19 J	0.84 J	0.23 J	1.5 J	3.5 J	04/03/12CMF	EPA200.8
Iron, ug/l	15.9	300.0	85 J	2096	155 J	1388	3840	04/10/12ADD	SM3111B
Manganese, ug/l	0.61	50.0	7 J	88	112	70	80	04/13/12LPJ	EPA200.7
Lead, ug/l	0.02	10.0	0.04 J	0.49 J	0.04 J	1.0 J	1.5 J	04/03/12CMF	EPA200.8
Mercury, ug/l	0.05	0.20	--- U	04/03/12CMF	EPA200.8				
Nickel, ug/l	0.04	50.0	0.62 J	5.2 J	2.6 J	2.3 J	3.0 J	04/03/12CMF	EPA200.8
Selenium, ug/l	0.20	10.0	0.35 J	1.2 J	0.45 J	--- U	0.30 J	04/03/12CMF	EPA200.8
Silver, ug/l	0.02	10.0	--- U	0.06 J	--- U	--- U	--- U	04/03/12CMF	EPA200.8
Thallium, ug/l	0.02	5.5	--- U	04/03/12CMF	EPA200.8				
Vanadium, ug/l	0.14	25.0	1.4 J	7.9 J	3.6 J	4.7 J	11.1 J	04/03/12CMF	EPA200.8
Zinc, ug/l	0.24	10.0	1.4 J	6.8 J	2.8 J	5.7 J	10	04/03/12CMF	EPA200.8

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: DAVIDSON COUNTY LANDFILL (C&D)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
133 SPRING AVENUE
FUQUAY VARINA, NC 27526

CLIENT ID: 6050
ANALYST: MAO
DATE COLLECTED: 03/27/12
DATE ANALYZED: 03/31/12
DATE REPORTED: 04/20/12

Page: 1

REVIEWED BY: 

VOLATILE ORGANICS EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	CDMW-2	CDMW-3	CDMW-5	CDMW-6	CDMW-7
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	19.60 J	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	0.40 J	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U
48. Tetrahydrofuran	0.39	1.0	--- U	23.20	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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CLIENT: DAVIDSON COUNTY LANDFILL (C&D)
MS. JOAN SMYTH
RICHARDSON SMITH GARDNER
133 SPRING AVENUE
FUQUAY VARINA, NC 27526

CLIENT ID: 6050
ANALYST: MAO
DATE COLLECTED: 03/27/12
DATE ANALYZED: 03/31/12
DATE REPORTED: 04/20/12

Page: 2

REVIEWED BY: 

VOLATILE ORGANICS EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Trip Blank
1. Chloromethane	0.77	1.0	--- U
2. Vinyl Chloride	0.63	1.0	--- U
3. Bromomethane	0.67	10.0	--- U
4. Chloroethane	0.48	10.0	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U
7. Acetone	9.06	100.0	--- U
8. Iodomethane	0.26	10.0	--- U
9. Carbon Disulfide	0.23	100.0	--- U
10. Methylene Chloride	0.64	1.0	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U
15. 2-Butanone	2.21	100.0	--- U
16. Bromochloromethane	0.27	3.0	--- U
17. Chloroform	0.25	5.0	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U
20. Benzene	0.24	1.0	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U
22. Trichloroethene	0.23	1.0	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U
24. Bromodichloromethane	0.21	1.0	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U
27. Toluene	0.23	1.0	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U
30. Tetrachloroethene	0.17	1.0	--- U
31. 2-Hexanone	1.57	50.0	--- U
32. Dibromochloromethane	0.24	3.0	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U
34. Chlorobenzene	0.30	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U
36. Ethylbenzene	0.21	1.0	--- U
37. Xylenes	0.68	5.0	--- U
38. Dibromomethane	0.28	10.0	--- U
39. Styrene	0.19	1.0	--- U
40. Bromoform	0.20	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U
46. Acrylonitrile	2.72	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U
48. Tetrahydrofuran	0.39	1.0	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

