

## Wootton, Brian

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**From:** Colone, Mathew <ColoneMF@cdmsmith.com>  
**Sent:** Tuesday, July 17, 2012 10:32 AM  
**To:** Wootton, Brian  
**Cc:** Yang, Kenton  
**Subject:** Buncombe County Phase 5 C&D Piezometer Abandonment Records  
**Attachments:** Phase 5 Piezometer Abandonment Records.pdf

Brian,

Attached are the piezometer abandonment records for the Buncombe County Phase 5 C&D Landfill. All piezometers were abandoned by overdrilling and backfilling the borehole with neat Portland cement.

Please let me know if you have any questions or need any additional information.

Thanks,

Mat Colone

Mathew F. Colone, P.G. | Geologist | CDM Smith | 5400 Glenwood Avenue, Suite 300 Raleigh, NC 27612 |  
T: 919-325-3569 | F: 919-781-5730 | [www.cdmsmith.com](http://www.cdmsmith.com)



5400 Glenwood Avenue, Suite 300  
Raleigh, North Carolina 27612  
Tel: 919 787-5620  
Fax: 919 781-5730

# Transmittal

**To:** Mr. Brian Wootton  
**From:** Mat Colone  
**Organization/ Address:** NCDENR DWM-SWS  
**Date:** July 17, 2012  
NCDENR  
1646 Mail Service Center  
Raleigh, NC 27699-1646

**Re:** Buncombe County C&D Phase 5 – Piezometer Abandonment Records

**Job #:** 5000-90099.C&D.HYDRO

**Via:** *Mail:* XX *Overnight:* *Courier:*

**Enclosed please find:**

<b>For your information</b>	X
<b>For your review</b>	
<b>For your signature</b>	

<b>Approved</b>	
<b>Approved as noted</b>	
<b>Returned to you for correction</b>	

**Message:**

Brian,

Attached are the piezometer abandonment records for the Buncombe County C&D Landfill Phase 5. Please let me know if you need hard copies.

Thanks,

Mat

Signed



**BUNNELL-LAMMONS ENGINEERING, INC.**  
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

July 10, 2012

Phillips & Jordan, Inc.  
2100 Fairfax Road, Suite 101-D  
Greensboro, North Carolina 27407

Attention: Mr. Bruce Sekaly

Subject: **Report of Piezometer Abandonment  
Phase 5 Expansion and Stormwater Improvements  
Buncombe County C&D Landfill  
Buncombe County, North Carolina  
BLE Project Number J12-8028-01**

Dear Mr. Sekaly:

Bunnell-Lammons Engineering, Inc. (BLE) is pleased to provide this report of piezometer abandonment for the Phase 5 expansion at the Buncombe County C&D Landfill. Included in this report are a summary of the project information, a description of the field activities performed, and documentation of the abandonment activities.

### **BACKGROUND INFORMATION**

The Buncombe County C&D Landfill is located on Panther Branch Road in Buncombe County, North Carolina (Figure 1). The landfill is owned and operated by Buncombe County.

The project involved the abandonment of 16 separate piezometers varying in depth from 14 to 124 feet. One methane monitoring probe, 18 feet deep, was added to the list of borings to be abandoned after the field work was started. The piezometers and probe were installed originally in 8-inch diameter boreholes. Each piezometer and probe was originally installed with a cement/bentonite grout column above the screened interval and a 2-inch diameter PVC riser pipe. The wellhead completion of each piezometer and probe included a concrete pad and steel cover.

### **FIELD PROCEDURES AND ACTIVITIES**

A North Carolina-licensed driller from Metro Drill of Cowpens, South Carolina, working as a subcontractor to BLE, performed the drilling and abandonment services. The abandoned piezometers include the following:

Abandoned Piezometers & Methane Monitoring Probe					
B-614	B-617	B-619d	B-626	B-234	B-364
B-615	B-618	B-621	B-627s	B-227	M-10
B-616	B-619s	B-623	B-627d	B-361	

Each of the seventeen piezometers or probe were located and measured with a tag line to check for obstructions; each piezometer or probe was intact prior to abandonment. The abandonment procedure for each piezometer or methane probe included: 1) removing the concrete pad and steel cover; 2) overdrilling their total depth to remove original piezometer or probe construction materials; and 3) tremie grouting the open boreholes up to the ground surface with a non-shrink bentonite-cement mixture. A North Carolina well abandonment form (Form GW-30) for each piezometer or probe is attached to this report, along with a site location map (Figure 1), and a boring location plan (Figure 2).

### SUMMARY

The seventeen piezometers and methane monitoring probe in the Phase 5 expansion area have been permanently abandoned. The abandonment activities performed were in accordance with North Carolina Rule Title 15A NCAC 2C.0113(b)(1).

### CLOSING

We appreciate the opportunity to serve as your geological and geotechnical consultant on this project and look forward to continue working with you at the subject site. If you have any questions, please contact us at (864) 288-1265.

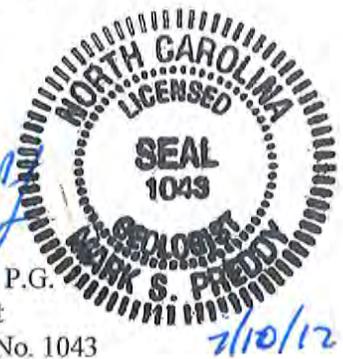
Sincerely,

**BUNNELL-LAMMONS ENGINEERING, INC.**

*Gary L. Weekley*  
Gary L. Weekley, P.E.  
Senior Engineer  
Registered NC No. 8251

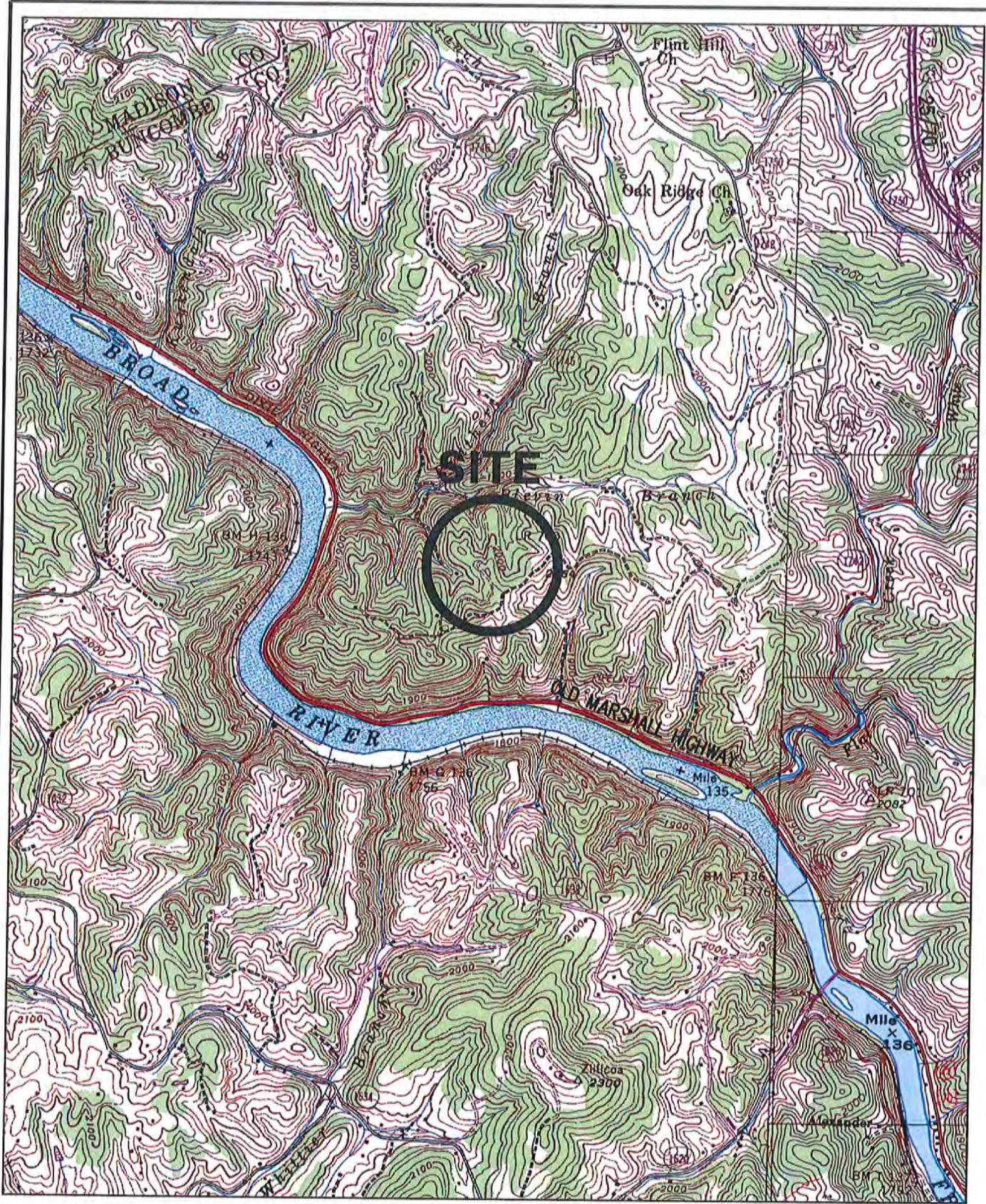


*Mark S. Preddy*  
Mark S. Preddy, P.G.  
Senior Geologist  
Registered, NC No. 1043



Attachments: Figure 1 – Site Location Map  
Figure 2 – Boring Location Plan  
NCDENR Well Abandonment Records

## FIGURES



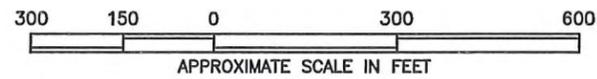
REFERENCE:  
 USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES,  
 LEICESTER AND WEAVERVILLE, N.C. QUADRANGLES,  
 PHOTOREVISED 1990 AND PHOTOREVISED 1993.

DRAWN:	ACE	DATE:	07-09-12
CHECKED:	TWM	CAD:	BUNCOMBECD-SLM
APPROVED:		JOB NO:	J12-8028-01

**IBLE** INC.  
**BUNNELL-LAMMONS ENGINEERING, INC.**  
 6004 PONDERS COURT  
 GREENVILLE, SOUTH CAROLINA 29615  
 PHONE: (864)288-1265 FAX: (864)288-4430

SITE LOCATION MAP  
 BUNCOMBE COUNTY C&D LANDFILL  
 BUNCOMBE COUNTY, NORTH CAROLINA

FIGURE  
**1**



REFERENCE:  
GOOGLE EARTH IMAGED DATED 10-20-2010.

DRAWN BY:	ACE	DATE:	07-09-12	REVISIONS		
CHECKED BY:	TWM	FILE:	BUNCOMBECD-BLP	No.	DESCRIPTION	BY
APPROVED BY:		JOB NO:	J12-8028-01			



**BUNNELL-LAMMONS ENGINEERING, INC.**  
 6004 PONDERS COURT  
 GREENVILLE, SOUTH CAROLINA 29615  
 PHONE: (864)266-2265 FAX: (864)266-4490

BORING LOCATION PLAN  
 BUNCOMBE COUNTY C&D LANDFILL  
 BUNCOMBE COUNTY, NORTH CAROLINA

FIGURE

**2**

**WELL ABANDONMENT RECORDS**



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-614  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use)  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGLE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 \_\_\_\_\_  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other \_\_\_\_\_  
 (Check appropriate setting) N-738489.50

LATITUDE 35.724672938 E-919891.50  
 OR 3X.XXXXXXXXDD

LONGITUDE 82.63988441 OR 7X.XXXXXXXXDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY - The name of the business where the well is located. Complete 4a:  
 (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 45 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface.

### 6. CASING:

	Length	Diameter
a. Casing Depth (if known):	<u>45</u> ft.	<u>2</u> in.
b. Casing Removed:	<u>45</u> ft.	<u>2</u> in.

INCLUDES 10' SCREEN

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

<b>Neat Cement</b>	<b>Sand Cement</b>
Cement <u>94</u> lb.	Cement _____ lb.
Water <u>6</u> gal.	Water _____ gal.

**Bentonite**  
 Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.

**Other**  
 Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

11. DATE WELL ABANDONED 04/24/2012

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

[Signature] 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Timothy L. Reid  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-615  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use):  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGLE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 \_\_\_\_\_  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other \_\_\_\_\_  
 (Check appropriate setting) N- 738785.80  
E- 919711.10

LATITUDE 35.725488260 OR 3x.xxxxxxxxDD

LONGITUDE 82.640528402 OR 7x.xxxxxxxxDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY - The name of the business where the well is located. Complete 4a (if a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 54 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface.

### 6. CASING:

	Length	Diameter
a. Casing Depth (if known):	<u>54</u> ft.	<u>2</u> in.
b. Casing Removed:	<u>54</u> ft.	<u>2</u> in.

INCLUDES 10" SCREEN

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

<b>Neat Cement</b>	<b>Sand Cement</b>
Cement <u>94</u> lb.	Cement _____ lb.
Water <u>6</u> gal.	Water _____ gal.
<b>Bentonite</b>	
Bentonite _____ lb.	
Type: <input type="checkbox"/> Slurry <input type="checkbox"/> Pellets	
Water _____ gal.	
<b>Other</b>	
Type material _____	
Amount _____	

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

11. DATE WELL ABANDONED 04/23/2012

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

[Signature] 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Timothy L. Reid  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-616  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use)  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGIE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other  
 (Check appropriate setting)

LATITUDE 35.725534097 OR 3X.XXXXXXXXDD  
 LONGITUDE 82.640089813 OR 7X.XXXXXXXXDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

### 4a. FACILITY - The name of the business where the well is located. Complete 4a (if a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
 Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 34 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface.

### 6. CASING:

	Length	Diameter
a. Casing Depth (if known):	<u>34</u> ft.	<u>2</u> in.
b. Casing Removed:	<u>34</u> ft.	<u>2</u> in.

*INCLUDES 10' SCREEN*

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

Neat Cement	Sand Cement
Cement <u>94</u> lb.	Cement _____ lb.
Water <u>8</u> gal.	Water _____ gal.

### Bentonite

Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.

### Other

Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE.

### 10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

### 11. DATE WELL ABANDONED 04/30/2012

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

[Signature] 02/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Timothy L. Reid  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-617  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use):  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGLE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other \_\_\_\_\_  
 (Check appropriate setting)

LATITUDE 35.725851983 OR 3X.XXXXXXXXDD  
 LONGITUDE 82.639710325 OR 7X.XXXXXXXXDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

### 4a. FACILITY - The name of the business where the well is located. Complete 4a: (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 64 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface.

### 6. CASING:

	Length	Diameter
a. Casing Depth (if known):	<u>64</u> ft.	<u>2</u> in.
b. Casing Removed:	<u>64</u> ft.	<u>2</u> in.

INCLUDES 10' SCREEN

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

<b>Neat Cement</b>	<b>Sand Cement</b>
Cement <u>94</u> lb.	Cement _____ lb.
Water <u>6</u> gal.	Water _____ gal.

### Bentonite

Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.

### Other

Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

### 10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

### 11. DATE WELL ABANDONED 04/25/2012

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

Timothy L. Reid 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

\_\_\_\_\_  
 SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

TIMOTHY L. REID  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-618  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use)  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGLE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 \_\_\_\_\_  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other \_\_\_\_\_  
 (Check appropriate setting) N- 739095.00  
E- 919599.70

LATITUDE 35.726325947 OR 3x.XXXXXXXXDD  
 LONGITUDE 82.640941679 OR 7x.XXXXXXXXDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

### 4a. FACILITY - The name of the business where the well is located. Complete 4a : (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 53 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface.

### 6. CASING:

	Length	Diameter
a. Casing Depth (if known):	<u>53</u> ft.	<u>2</u> in.
b. Casing Removed:	<u>53</u> ft.	<u>2</u> in.

INCLUDES 10' SCREEN

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

<b>Neat Cement</b>	<b>Sand Cement</b>
Cement <u>94</u> lb.	Cement _____ lb.
Water <u>6</u> gal.	Water _____ gal.

### Bentonite

Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.

### Other

Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

### 10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

### 11. DATE WELL ABANDONED 04/30/2012

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

[Signature] 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Timothy L. Reid  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-619s  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use)  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGLE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC

(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other  
 (Check appropriate setting) N-738977.80  
E-919847.50

LATITUDE 35.726029135 ; OR 3X.XXXXXXXXDD

LONGITUDE 82.640092867 OR 7X.XXXXXXXXDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY - The name of the business where the well is located. Complete 4a:  
 (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 17 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface.

### 6. CASING:

Length Diameter  
 a. Casing Depth (if known): 17 ft. 2 in.  
 b. Casing Removed: 17 ft. 2 in.  
INCLUDES 10' SCREEN

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

**Neat Cement** **Sand Cement**  
 Cement 94 lb. Cement \_\_\_\_\_ lb.  
 Water 6 gal. Water \_\_\_\_\_ gal.

**Bentonite**  
 Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.

**Other**  
 Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

11. DATE WELL ABANDONED 04/26/2012

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

[Signature] 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

TIMOTHY L. REID  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-619d  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use)  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGLE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 \_\_\_\_\_  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other  
 (Check appropriate setting) N-738982.90  
E-919848.50

LATITUDE 35.726043238 OR 3x.xxxxxxxxDD

LONGITUDE 82.640090130 OR 7x.xxxxxxxxDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY - The name of the business where the well is located. Complete 4a (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 33 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface.

### 6. CASING:

	Length	Diameter
a. Casing Depth (if known):	<u>33</u> ft.	<u>2</u> in.
b. Casing Removed:	<u>33</u> ft.	<u>2</u> in.

INCLUDES 10' SCREEN

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

Neat Cement	Sand Cement
Cement <u>94</u> lb.	Cement _____ lb.
Water <u>6</u> gal.	Water _____ gal.

### Bentonite

Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.

### Other

Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

### 11. DATE WELL ABANDONED 04/26/2012

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

[Signature] 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Timothy L. Reid  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-621  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use):  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGLE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other \_\_\_\_\_  
 (Check appropriate setting) N-739215, 20  
E-919828, 10

LATITUDE 35.726678963 OR 3x.xxxxxxxxDD  
 LONGITUDE 82.640187510 OR 7x.xxxxxxxxDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY - The name of the business where the well is located. Complete 4a :  
 (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 48 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface,

### 6. CASING:

Length Diameter  
 a. Casing Depth (if known): 48 ft. 2 in.  
 b. Casing Removed: 48 ft. 2 in.  
INCLUDES 10' SCREEN

### 7. DISINFECTION: N/A

(Amount of 65%75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

**Neat Cement** **Sand Cement**  
 Cement 94 lb. Cement \_\_\_\_\_ lb.  
 Water 6 gal. Water \_\_\_\_\_ gal.

**Bentonite**  
 Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.

**Other**  
 Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

11. DATE WELL ABANDONED 07/25/2012

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

Timothy L. Reid 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Timothy L. Reid  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-623  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use)  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGLE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 \_\_\_\_\_  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other  
 (Check appropriate setting) N- 737819, 40  
E- 918180, 10

LATITUDE 35.722680684 OR 3x.XXXXXXXXXDD

LONGITUDE 82.645563628 OR 7x.XXXXXXXXXDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY - The name of the business where the well is located. Complete 4a: (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 102 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface.

### 6. CASING:

Length Diameter  
 a. Casing Depth (if known): 102 ft. 2 in.  
 b. Casing Removed: 102 ft. 2 in.  
INCLUDES 10" SCREEN

### 7. DISINFECTION: N/A

(Amount of 65%75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

**Neat Cement** **Sand Cement**  
 Cement 94 lb. Cement \_\_\_\_\_ lb.  
 Water 6 gal. Water \_\_\_\_\_ gal.

**Bentonite**  
 Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.

**Other**  
 Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

11. DATE WELL ABANDONED 04/19/2012

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

Timothy L. Reid 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

Timothy L. Reid  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-626  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use)  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGLE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other \_\_\_\_\_  
 (Check appropriate setting) N-730452, 60  
E-918226, 20

LATITUDE 35.724423783 OR 3X.XXXXXXXXDD

LONGITUDE 82.645486742 OR 7X.XXXXXXXXDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY - The name of the business where the well is located. Complete 4a:  
 (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 57 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 2 ft. above land surface.

### 6. CASING:

	Length	Diameter
a. Casing Depth (if known):	<u>57</u> ft.	<u>2</u> in.
b. Casing Removed:	<u>57</u> ft.	<u>2</u> in.

INCLUDES 10' SCREEN

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

**Neat Cement** **Sand Cement**

Cement 94 lb. Cement \_\_\_\_\_ lb.  
 Water 6 gal. Water \_\_\_\_\_ gal.

**Bentonite**

Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.

**Other**

Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

11. DATE WELL ABANDONED 04/19/2012

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

[Signature] 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

\_\_\_\_\_  
 SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

TIMOTHY L. REID  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
Well Contractor (Individual) Name

Metro Drill Inc.  
Well Contractor Company Name

185 Truck Stop Rd.  
Street Address

Cowpens SC 29330  
City or Town State Zip Code

(864) 304-1380  
Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-6275

STATE WELL PERMIT # (if applicable) \_\_\_\_\_

COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_

DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_

WELL USE (Check applicable use)  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGIE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other \_\_\_\_\_  
 (Check appropriate setting) N-738462.80

LATITUDE 35.724488406 OR 3x.XXXXXXXXDD  
 LONGITUDE 82.644265486 OR 7x.XXXXXXXXDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

### 4a. FACILITY - The name of the business where the well is located. Complete 4a (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 21 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface.

### 6. CASING:

	Length	Diameter
a. Casing Depth (if known):	<u>21</u> ft.	<u>2</u> in.
b. Casing Removed:	<u>21</u> ft.	<u>2</u> in.

INCLUDES 10' SCREEN

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

**Neat Cement**                      **Sand Cement**

Cement 94 lb.                      Cement \_\_\_\_\_ lb.  
 Water 6 gal.                      Water \_\_\_\_\_ gal.

**Bentonite**

Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.

**Other**

Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

### 10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill material used

### 11. DATE WELL ABANDONED 04/16/2012

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

Timothy L. Reid 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR                      DATE

\_\_\_\_\_  
 SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL      DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

TIMOTHY L. REID  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-627d  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use):  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGLE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other \_\_\_\_\_  
 (Check appropriate setting) N-738468.90

LATITUDE 35.724505497 OR 3X.XXXXXXXXDD  
E-910592.70

LONGITUDE 82.644254793 OR 7X.XXXXXXXXDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

### 4a. FACILITY - The name of the business where the well is located. Complete 4a: (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 127 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface.

### 6. CASING:

	Length	Diameter
a. Casing Depth (if known):	<u>127</u> ft.	<u>2</u> in.
b. Casing Removed:	<u>127</u> ft.	<u>2</u> in.

INCLUDES 10' SCREEN

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

<b>Neat Cement</b>	<b>Sand Cement</b>
Cement <u>94</u> lb.	Cement _____ lb.
Water <u>6</u> gal.	Water _____ gal.

**Bentonite**  
 Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.

**Other**  
 Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

### 10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

### 11. DATE WELL ABANDONED 04/17/2012

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

[Signature] 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

\_\_\_\_\_  
 SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

TIMOTHY L. REID  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-234  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use):  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGIE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other \_\_\_\_\_  
 (Check appropriate setting) N-737462.80

LATITUDE 35.721801454 OR 3X.XXXXXXXXDD  
E-919170010

LONGITUDE 82.642186408 OR 7X.XXXXXXXXDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY - The name of the business where the well is located. Complete 4a:  
 (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
 Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 83 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface.

### 6. CASING:

	Length	Diameter
a. Casing Depth (if known):	<u>83</u> ft.	<u>2</u> in.
b. Casing Removed:	<u>83</u> ft.	<u>2</u> in.

INCLUDES 10' SCREEN

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

<u>Neat Cement</u>	<u>Sand Cement</u>
Cement <u>94</u> lb.	Cement _____ lb.
Water <u>6</u> gal.	Water _____ gal.

### Bentonite

Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.

### Other

Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

11. DATE WELL ABANDONED 04/23/2012

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

Timothy L. Reid 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

TIMOTHY L. REID  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-227  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use)  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGIE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 \_\_\_\_\_  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other  
 (Check appropriate setting) N-738687.20  
E-918539.50

LATITUDE 35.725099474 OR 3X.XXXXXXXXDD  
 LONGITUDE 82.644460907 OR 7X.XXXXXXXXDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY - The name of the business where the well is located. Complete 4a:  
 (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 23 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface.

### 6. CASING:

Length Diameter  
 a. Casing Depth (if known): 23 ft. 2 in.  
 b. Casing Removed: 23 ft. 2 in.  
INCLUDES 10' SCREEN

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

**Neat Cement** **Sand Cement**  
 Cement 94 lb. Cement \_\_\_\_\_ lb.  
 Water 6 gal. Water \_\_\_\_\_ gal.

**Bentonite**  
 Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.

**Other**  
 Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

11. DATE WELL ABANDONED 04/16/2012

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

Timothy L. Reid 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

\_\_\_\_\_  
 SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

TIMOTHY L. REID  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-361  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use)  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGLE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 \_\_\_\_\_  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other  
 (Check appropriate setting)

LATITUDE 35.725470467 OR N-73B768.20  
82.639505709 OR E-92004.20  
 LONGITUDE OR 3X.XXXXXXXXDD  
 OR 7X.XXXXXXXXDD

Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

### 4a. FACILITY - The name of the business where the well is located. Complete 4a: (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 99 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface.

### 6. CASING:

	Length	Diameter
a. Casing Depth (if known):	<u>99</u> ft.	<u>2</u> in.
b. Casing Removed:	<u>52</u> ft.	<u>2</u> in.

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

Neat Cement	Sand Cement
Cement <u>94</u> lb.	Cement _____ lb.
Water <u>8</u> gal.	Water _____ gal.

### Bentonite

Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.

### Other

Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

### 10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

### 11. DATE WELL ABANDONED 04/24/2012

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

Timothy L. Reid 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

\_\_\_\_\_  
 SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

TIMOTHY L. REID  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) B-364  
 STATE WELL PERMIT # (if applicable) \_\_\_\_\_  
 COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_  
 DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_  
 WELL USE (Check applicable use)  Monitoring  Residential  
 Municipal/Public  Industrial/Commercial  Agricultural  
 Recovery  Injection  Irrigation  
 Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGLE NAME \_\_\_\_\_  
 NEAREST TOWN: Alexander, NC  
 \_\_\_\_\_  
 (Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other  
 (Check appropriate setting) N-739263,40  
E-920007,00  
 LATITUDE 35.726829314 OR 3X.XXXXXXXXDD  
 LONGITUDE 82.639591108 OR 7X.XXXXXXXXDD  
 Latitude/longitude source:  GPS  Topographic map  
 (location of well must be shown on a USGS topo map and attached to this form if not using GPS)

### 4a. FACILITY - The name of the business where the well is located. Complete 4a: (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_  
 NAME OF FACILITY Buncombe County C&D landfill  
 STREET ADDRESS 81 Panther Branch Road  
Alexander NC 28701  
 City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_

### 5. WELL DETAILS:

a. Total Depth 103 ft. Diameter: 2 in.  
 b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
 Measuring point is 3 ft. above land surface.

### 6. CASING:

Length Diameter  
 a. Casing Depth (if known): 103 ft. 2 in.  
 b. Casing Removed: 4.5 ft. 2 in.

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

**Neat Cement** **Sand Cement**  
 Cement 94 lb. Cement \_\_\_\_\_ lb.  
 Water 6 gal. Water \_\_\_\_\_ gal.  
**Bentonite**  
 Bentonite \_\_\_\_\_ lb.  
 Type:  Slurry  Pellets  
 Water \_\_\_\_\_ gal.  
**Other**  
 Type material \_\_\_\_\_  
 Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

### 10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used

### 11. DATE WELL ABANDONED 04/25/2012

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

Timothy L. Reid 07/06/2012  
 SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

\_\_\_\_\_  
 SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
 (The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

TIMOTHY L. REID  
 PRINTED NAME OF PERSON ABANDONING THE WELL



# WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # NCWC 2290-A

### 1. WELL CONTRACTOR:

Timothy L. Reid  
 Well Contractor (Individual) Name  
 Metro Drill Inc.  
 Well Contractor Company Name  
 185 Truck Stop Rd.  
 Street Address  
 Cowpens SC 29330  
 City or Town State Zip Code  
 (864) 304-1380  
 Area code Phone number

### 2. WELL INFORMATION:

SITE WELL ID # (if applicable) M-10

STATE WELL PERMIT # (if applicable) \_\_\_\_\_

COUNTY WELL PERMIT # (if applicable) \_\_\_\_\_

DWQ or OTHER PERMIT # (if applicable) \_\_\_\_\_

WELL USE (Check applicable use)  Monitoring  Residential

Municipal/Public  Industrial/Commercial  Agricultural

Recovery  Injection  Irrigation

Other (list use) \_\_\_\_\_

### 3. WELL LOCATION:

COUNTY Buncombe QUADRANGLE NAME \_\_\_\_\_

NEAREST TOWN: Alexander, NC

(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

### TOPOGRAPHIC / LAND SETTING:

Slope  Valley  Flat  Ridge  Other  
(Check appropriate setting) N- 739088, 50

LATITUDE 35.726331451 OR 3X.XXXXXXXXXXD

LONGITUDE 82.640160412 OR 7X.XXXXXXXXXXD

Latitude/longitude source:  GPS  Topographic map  
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4a. FACILITY - The name of the business where the well is located. Complete 4a: (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID # (if applicable) \_\_\_\_\_

NAME OF FACILITY Buncombe County C&D landfill

STREET ADDRESS 81 Panther Branch Road

Alexander NC 28701

City or Town State Zip Code

### 4b. CONTACT PERSON/WELL OWNER:

NAME \_\_\_\_\_

STREET ADDRESS \_\_\_\_\_

### 6. WELL DETAILS:

a. Total Depth 18 ft. Diameter: 2 in.

b. Water Level (Below Measuring Point): \_\_\_\_\_ ft.  
Measuring point is 3 ft. above land surface.

### 6. CASING:

Length Diameter

a. Casing Depth (if known): 18 ft. 2 in.

b. Casing Removed: 18 ft. 2 in.

INCLUDES 10' SCREEN

### 7. DISINFECTION: N/A

(Amount of 65% 75% calcium hypochlorite used)

### 8. SEALING MATERIAL:

#### Neat Cement

#### Sand Cement

Cement 94 lb.  
Water 6 gal.

Cement \_\_\_\_\_ lb.  
Water \_\_\_\_\_ gal.

#### Bentonite

Bentonite \_\_\_\_\_ lb.

Type:  Slurry  Pellets

Water \_\_\_\_\_ gal.

#### Other

Type material \_\_\_\_\_

Amount \_\_\_\_\_

### 9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Pressure grouted through tremmie FROM  
BOTTOM OF WELL TO SURFACE

10. WELL DIAGRAM : Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill material used

11. DATE WELL ABANDONED 04/26/2012

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

[Signature] 07/06/2012  
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE  
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

TIMOTHY L. REID  
PRINTED NAME OF PERSON ABANDONING THE WELL