



May 24, 2011

Ms. Jaclynne Drummond
Compliance Hydrogeologist
NCDENR Division of Waste Management -Solid Waste Section
401 Oberlin Road, Suite 150
Raleigh, North Carolina 27605

RE: Well Abandonment Report – MW-13
Red Rock Disposal, LLC C&D Landfill, Permit No. 92-28
Holly Springs, Wake County, North Carolina

Dear Ms. Drummond:

Richardson, Smith, Gardner, and Associates Inc. (RSG) is submitting this letter on behalf of Red Rock Disposal, LLC (Red Rock), a subsidiary of Waste Industries USA, Inc. (Waste Industries), to document the well abandonment conducted on May 2, 2011.

On February 7, 2011 a request was sent to you to abandon monitoring well MW-13 at the Red Rock C&D landfill, and to remove monitoring well MW-12 from the monitoring (sampling) network, but retain this well to collect future water level data. This request was approved on March 3, 2011. The well locations are shown on the attached **Figure 1**.

Monitoring well MW-13 was installed to a depth of 17 feet below grade in bedrock on August 11, 2003 by The Hutchinson Group. On May 2, 2011, this well was abandoned in accordance with 15A NCAC 2C.0113 for permanent abandonment of monitoring wells by David Barron, a licensed driller (#2089) with RDL Drilling, under the supervision of Joan Smyth, P.G. of RSG. For this abandonment, grout was injected via tremie-pipe to fill the well from bottom to top. After the grout had set for over 24 hours the metal casing and concrete pad were removed. The well abandonment record and original boring log are included in **Attachment 1**.

RSG will be preparing a revised Water Quality Monitoring Plan as requested in your letter of March 3rd and will submit the revised plan for review under separate cover.

If you have any questions or require any additional information, please contact me at your earliest convenience (919) 828-0577 ext. 221 or by email at joan@rsgengineers.com.

Sincerely,
Richardson Smith Gardner & Associates, Inc.

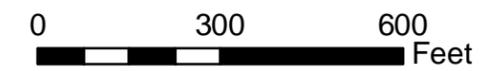
A handwritten signature in blue ink that reads "Joan A. Smyth". The signature is written in a cursive style with a large initial 'J'.

Joan A. Smyth, P.G.
Senior Hydrogeologist

Attachments

cc: Don Plessinger – Red Rock Disposal
David Pepper – Waste Industries

Figure



REFERENCES:
 1. PHOTOGRAPHY FROM AN AERIAL SURVEY DATED FEBRUARY 11, 2010 BY GEODATA CORPORATION, ZEBULON, NC.



FIGURE NO.	1
SCALE:	AS SHOWN
CHECKED BY:	J.A.S.
PROJECT NO.	RED ROCK 11-1
FILE NAME	REDROCK-B0109
DRAWN BY:	C.T.J.
DATE:	FEB. 2011

TITLE:
RED ROCK DISPOSAL, LLC
C&D LANDFILL
GROUNDWATER FLOW DIRECTION

Attachment 1

Well Construction Log

Well ID: MW-13
 Total Depth: 17'

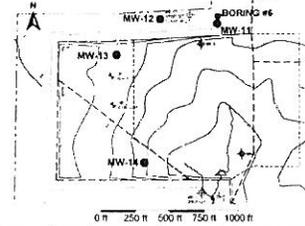


PROJECT INFORMATION

Site Name: Red Rock Landfill
 Site Location: Cary, NC
 Elevation: TOC 331.34 ft amsl
 Logged By: Laura S. Barta
 Date Drilled: 8/11/03
 Drilling Co.: Engineering Tectonics
 Rig Type: Mobile 50
 Drilling Method: 5 7/8" Tricone; 5 3/4" Air Hammer
 Sampling Method: Split Spoon
 Notes: 8/12/03; WL -4.33' bg

DRILLING INFORMATION

SITE LOCATION
 Northing: 675,465.8
 Easting: 2,028,375.4



▽ Water level during drilling
 ▼ Water level in completed well

DEPTH	SOIL SYMBOLS	FORMATION	DESCRIPTION	SAMPLE	WELL COMPLETION	WELL DESCRIPTION
0		Soil	SAND: Reddish brown, fine-grained sand			4" locking steel casing 2" expandable cap
			CONGLOMERATE: Dark reddish brown, very fine-grained sand matrix			2-foot diameter concrete pad 0 to -3'; bentonite/cement slurry
		Chatham Group	CONGLOMERATE: Light red to gray, very fine-grained sand matrix (refusal)	30/6", 50/2"		3' to -7'; 2" Sch 40 PVC riser -3' to -5'; Shurplug bentonite seal
			CONGLOMERATE: Dark red, fine-grained sand matrix (air hammer); fracture zone -11.5' to -12'			-5' to -17'; DSI #3 filter sand
			CONGLOMERATE: Reddish brown, fine-grained sand matrix; fracture zone -13' to -16'			-7' to -17'; 2" Sch 40 PVC screen, 0.010" slotted
-15						-17'; 2" end cap



RECEIVED MAY 12 2011

WELL ABANDONMENT RECORD

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

WELL CONTRACTOR CERTIFICATION # 2089

I. WELL CONTRACTOR:

David C Barron
Well Contractor (Individual) Name
R.O.L Drilling
Well Contractor Company Name
STREET ADDRESS P.O. Box 121
Tobaccoville N.C. 27050
City or Town State Zip Code
336-577-9970
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) mw#13
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 Franklin QUADRANGLE NAME _____
NEAREST TOWN: Holly Springs, 7130
New Landfill Dr. N.C. 27540
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other _____
(Check appropriate setting)

LATITUDE 35° 36.360
LONGITUDE 78 54.264
May be in degrees, minutes, seconds, or in a decimal format

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 and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID #(if applicable) _____
NAME OF FACILITY Red Rock Disposal
STREET ADDRESS 7130 New Landfill Dr.
Holly Springs N.C. 27540
City or Town State Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME Don Plessinger
STREET ADDRESS 7130 New Landfill Dr.

5. WELL DETAILS:

a. Total Depth: 17.0 ft. Diameter: 2" in.
b. Water Level (Below Measuring Point): 10.9 ft.
Measuring point is 3' ft. above land surface.

6. CASING:

Length Diameter
a. Casing Depth (if known): 7' ft. 2" in.
b. Casing Removed: 3' ft. 2" in.

7. DISINFECTION: 1 Tsp.

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement Sand Cement
Cement 94 lb. Cement _____ lb.
Water 5 gal. Water _____ gal.

Bentonite

Bentonite lb.
Type: Slurry Pellets
Water _____ gal.

Other

Type material Bentonite
Amount 6 lbs

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

Disinfect well, Pump Cement from Bottom of well to Top

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 5-2-11

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.

David Barron 5-3-11
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.)

DAVID BARRON
PRINTED NAME OF PERSON ABANDONING THE WELL

