

Attention: Cheryl Marks

Date: 5/2/01

Company: NC DENR Solid Waste

Number of Pages: 3

Fax Number: 733 4810

Voice Number: 733 0692, x346

From: David Garrett

Fac/Perm/Co ID #	Date	Doc ID#
7407	10/12/2001	DIN 15405

Company: David Garrett, P.G., P.E.

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Subject: C&D Landfill, Inc.

Comments:

Revised monitoring well locations per our discussion. The new well installation should be completed by mid-afternoon Thursday. Please call 418-4375 if you have any questions or comments. Thanks. David

**David Garrett, P.G., P.E.****Engineering and Geology**

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May 2, 2001

**MEMORANDUM**

TO: Cheryl Marks – NC DWM Solid Waste Section

RE: C&amp;D Landfill, Inc. (Pitt County, NC)

Pursuant to today's telephone conversation, this is to notify you of a recommended change in the monitoring well layout for the project. These locations represent a slight deviation from the tentatively approved locations on two wells, MW-2s and MW-4, relative to the map shown in the March 2001 Water Quality Monitoring Plan. The attached map shows the original and relocated well positions. The proposed changes will enhance the effectiveness of the monitoring program.

The proposed location for MW-4 was adjusted based on field conditions that do not show on the map. A shallow drainage feature, identified as a seasonal ground water discharge feature in the earlier submittal, exists southeast of the piezometer B-4. The original location of MW-4 was located across the seasonal drainage feature from the waste disposal area. It is my opinion that the well would be more effective for monitoring the uppermost aquifer if located on the west side of the drainage feature.

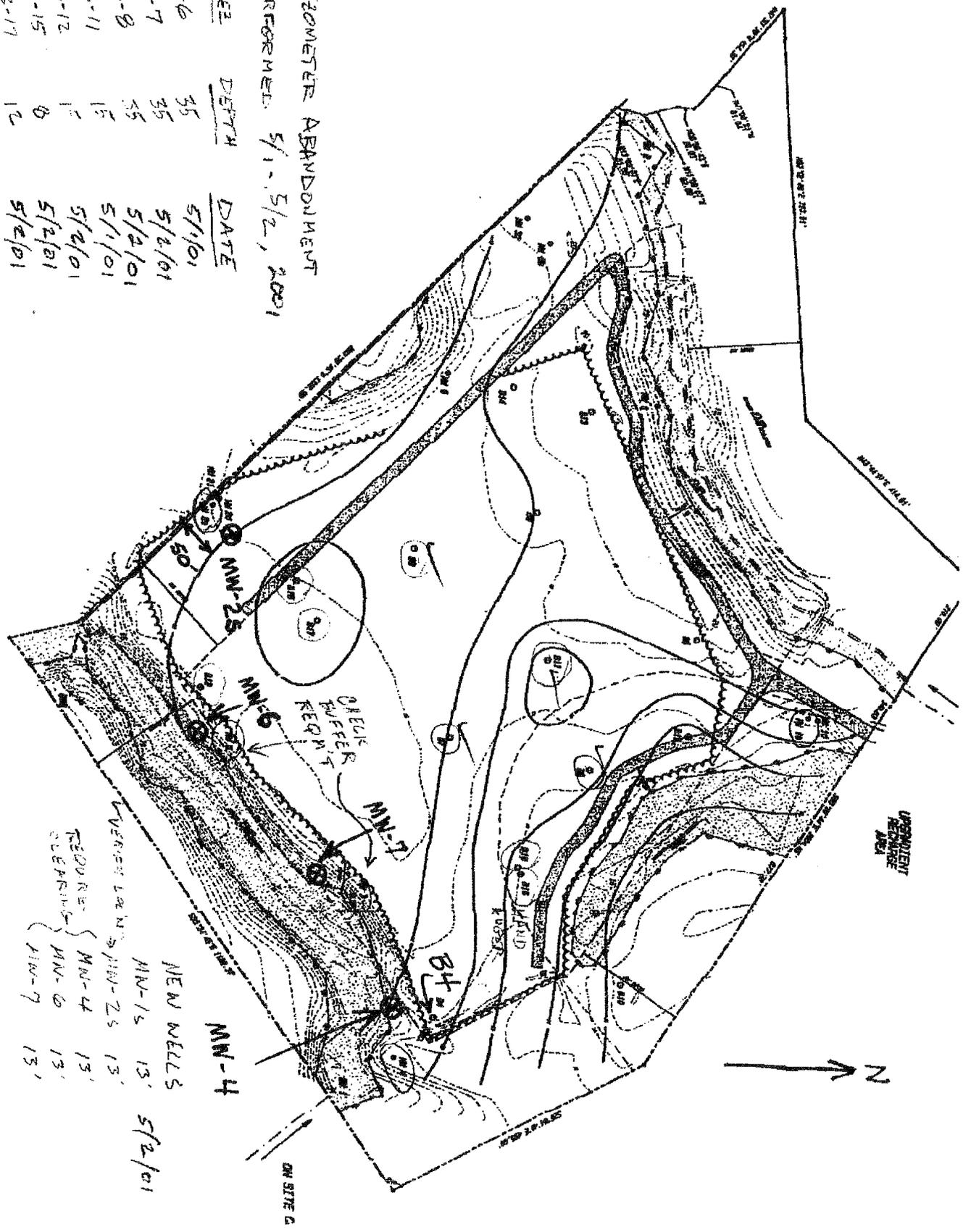
The location of MW-2s shown on the original map is adjacent to the property line. Regulations call for monitoring wells to be located at least 50 feet inside the property line. I propose moving the well east by 50 feet, to bring the well location in compliance with NC DWM regulations. The relocated well shall be approximately 150 feet from the waste boundary. The deeper well, MW-2d, will remain at its present location at the property line. It is my opinion that the location of the deeper well, which monitors the regional aquifer, is not as critical relative to the waste and property boundaries as the shallow wells.

The locations of MW-6 and MW-7 were adjusted to take advantage of prominent high ground extending into the wooded area, still observant of Tar-Pamlico riparian buffer requirements, which allows the wells to be located further back from the edge of waste than shown in the original plan map. The lateral separation from the waste boundary will be approximately 75 feet. These adjustments, along with the relocation of MW-4, keep the wells spaced approximately 300 feet apart, as determined appropriate by the contaminant transport equations.

This also to verify that all piezometers located within Phase 1A have been abandoned by over-drilling and pressure grouting, in accordance with North Carolina Water Quality and Solid Waste Standards. The attached map shows the piezometer locations and depths to which this work took place. The piezometers within Phase 1B were left in place and will be protected from damage for future water level observation. A formal certification will be prepared once the new wells are sampled, in pursuit of the Permit to Operate.

Thank you for your attention on this matter.





NEW WELLS  
 MN-15 13' 5/2/01  
 MN-4 13'  
 MN-5 13'  
 MN-6 13'  
 MN-7 13'  
 REPAIRS  
 MN-25  
 VERON LAIN SPIN-25

MEGOMETER ABANDONMENT  
 PERFORMED 5/1-5/2, 2001

PIEZ	DEPTH	DATE
B-6	35	5/1/01
B-7	35	5/2/01
B-8	35	5/2/01
B-11	15	5/1/01
B-12	15	5/2/01
B-15	0	5/2/01
B-17	12	5/2/01
B-18	0	5/2/01
B-16	4.5	5/2/01

✓  
 ROUTE  
 CHECK