

N.C. DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
DIVISION OF SOLID WASTE
HAZARDOUS WASTE SECTION

Circle one:
G, I, P, GW, C, E

FILE DOCKET

DATE	ITEM
20. 6. 25. 97	Completion of closure activities
21. 3. 21. 97	Closure Activities
22. 12. 15. 97	Closure Certification
23. 2. 10. 98	Closure Certification
24. 3. 10. 98	Closure Certification
25. 6. 22. 98	Closure
26. 7. 7. 98	post closure care period & GW monitoring

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF WASTE MANAGEMENT



JAMES B. HUNT JR.
GOVERNOR

WAYNE McDEVITT
SECRETARY

WILLIAM L. MEYER
DIRECTOR

July 7, 1998

(26)

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. L. F. Hudson, Jr., Director
Water/Waste-Water Treatment Department
City of Statesville
P. O. Box 1111
Statesville, NC 28687-1111

Re: Post-Closure Care Period and Ground-Water Monitoring
Third Creek Monofill
City of Statesville
Statesville, NC 28687-1111
EPA ID # NCR 000 001 602

Dear Mr. Hudson:

In correspondence dated June 22, 1998; the North Carolina Hazardous Waste Section (HWS) accepted the City of Statesville's closure certification for the Third Creek Monofill. The post-closure care period began with the receipt of the June 22 letter by the City of Statesville.

As part of post-closure care, the City of Statesville must conduct ground-water monitoring. The decision to continue ground-water monitoring is dictated primarily by the presence at the site of untreated soils containing cadmium. Cadmium was not detected in background soil samples collected at the site. However, cadmium was detected in confirmation soil samples collected from Trenches 3, 14, 16, 18, and 20. Most of the confirmation samples testing positive for cadmium were collected from Trenches 14, 16, and 18.

Several other factors also influenced the Hazardous Waste Section's decision to continue ground-water monitoring. Among these were:

Mr. L. F. Hudson, Jr.
July 7, 1998
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- 1) The relatively high toxicity of cadmium. The North Carolina ground-water standard (i.e., 2L Standard) for cadmium is 5.0 ppb. As you are probably aware, the 2L Standards for Class GA and Class GSA ground waters are based upon health-risk assessment data and toxicological data.
- 2) The long-term stability of the cadmium in the treated sludge. The information furnished to the Hazardous Waste Section concerning the treatment method does not discuss or attempt to predict the long-term stability (immobility) of the cadmium in the treated material. In addition, no information on the effects of the treatment process on the other RCRA metals detected in the sludge is presented.
- 3) The relative proximity of the Third Creek Monofill to residential neighborhoods. The areas north, east, and west of the Third Creek Monofill are developed into residential neighborhoods. Many of these residents receive their water from private wells. While none of the wells is immediately downgradient of the monofill trenches, the area can be expected to experience significant growth in the future.

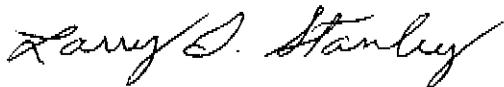
The City of Statesville currently conducts detection monitoring at four monitoring wells on a quarterly schedule. These wells are MW-5, MW-6, MW-7, and MW-8. As part of each sampling event, depth to water measurements are taken at these wells and at monitoring wells MW-1, MW-2, MW-3, and MW-4. Since historical data has been collected for several quarters and ground-water contamination has not been detected at the site, the City of Statesville could sample monitoring wells MW-5, MW-6, MW-7, and MW-8 on a semiannual schedule.

Hydrogeologic data gathered during site characterization and ground-water monitoring activities indicate that the area immediately downgradient of Trenches 14, 16, and 18 is not monitored. These trenches have the highest concentrations of cadmium in the confirmation soil samples collected during closure of the trenches. Consequently, the Hazardous Waste Section will require additional ground-water monitoring of the surficial aquifer in the area downgradient of these trenches. The City of Statesville identified two possible monitoring well locations in the Third Creek Monofill's post-closure plan. The HWS recommends that the City of Statesville install one monitoring well in the approximate location of proposed monitoring well MW-9 (Figure 2--Post-Closure Plan); and as suggested in the post-closure plan, MW-2 should be added to the monitoring well system. Wells added to the monitoring well system as a result of post-closure activities should be sampled quarterly. If ground-water contamination is not detected during the first four sampling events, then these wells may also be sampled on a semiannual schedule.

Mr. L. F. Hudson, Jr.
July 7, 1998
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If your office has any questions concerning this correspondence, please contact Larry Stanley at (919) 733-2178, ext. 294.

Sincerely,



Larry G. Stanley
Hydrogeologist
Facility Management Branch

cc: Narindar Kumar, US EPA, Region IV
Brent Burch
Larry Stanley

rc: Jill Burton 
Pete Doorn 
Kathy Lawson 
Surabhi Shah 
Larry Stanley 

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT



JAMES B. HUNT JR.
GOVERNOR

WAYNE MCDEVITT
SECRETARY

WILLIAM L. MEYER
DIRECTOR

June 22, 1998

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. L. F. Hudson, Jr., Director
Water/Waste-Water Treatment Department
City of Statesville
P. O. Box 1111
Statesville, NC 28687-1111

Re: Third Creek Monofill - Closure Certification
City of Statesville
Statesville, NC 28687-1111
EPA ID # NCR 000 001 602

Dear Mr. Hudson:

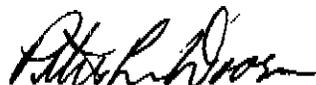
The Hazardous Waste Section received closure certification statements from a registered professional engineer (dated August 27, 1997) and from the owner/operator (dated February 25, 1998). These statements declare that closure activities for the Third Creek Monofill were completed according to the approved closure plan. In addition, Mr. Brent Burch of the Hazardous Waste Section conducted a closure inspection on March 10, 1998 and found the facility to be in compliance with the approved closure plan.

Your certification for the closure of the trenches at the Third Creek Monofill is accepted. A copy of this letter will be forwarded to Ms. Jenny Lopp who is our Financial Program Coordinator. She will address details concerning financial assurance for closure under a separate letter.

Mr. L. F. Hudson, Jr.
June 22, 1998
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If your office has any questions concerning this correspondence, please contact Larry Stanley at (919) 733-2178, ext. 294.

Sincerely,



Peter L. Doorn
Unit Supervisor
Facility Management Branch

cc: Narindar Kumar, US EPA, Region IV
Linda Culpepper
Keith Masters
Jenny Lopp
Brent Burch
Larry Stanley

rc: Jill Burton *JB*
Pete Doorn *PD*
Larry Stanley *LS*

City of



Statesville

P. O. Box 1111 • Statesville, North Carolina 28687

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March 10, 1998

Mr. Larry G. Stanley
N.C. Dept. of Environment
and Natural Resources
Division of Waste Management
401 Oberlin Road, Suite 150
Raleigh, NC 27605



RE: Closure Certification
Third Creek Monofill
City of Statesville
Statesville, NC 28687-1111
EPA ID#NCR 000 001 602

Dear Mr. Stanley:

Please find enclosed the information that you requested in your letter of February 10, 1998. If you need any additional information call me at 704-878-3438.

Sincerely,

Renee Parkman, Assistant Director
Water/Wastewater Treatment

RP/sg

Closure Certification Statement

City of Statesville
Third Creek Monofill
EPA ID # NCR 000 001 602

The hazardous waste management units at the Third Creek Monofill have been closed in accordance with the specifications in the approved closure plan. I certify that the closure report, Closure Certification--Third Creek Monofill, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the submitted information. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

[Signature]
Signature of Owner/ Operator

[Signature]
Position or Title

Signature of Registered P. E.

N. C. Registration Number and Seal

3/25/98
Date

