

February 6, 1995

Ms. Janis D. McHarque, P.E.
Western Area Engineer
Winston Salem Regional Office
Solid Waste Division
Department of Environment, Health and Natural Resources
585 Waughtown Street
Winston Salem, North Carolina 27107-2241



**Re: Caswell County
Proposed Construction and Demolition
Landfill Site Plan Application**

Dear Ms. McHarque:

On behalf of Caswell County, Dewberry & Davis hereby requests that the Site Plan Application dated March, 1994, be withdrawn from consideration at this time. The reason for the withdrawal is because Caswell County is no longer pursuing to build a construction and demolition landfill at this present time.

If you should have any questions, comments or would like to discuss this matter further, please call me.

Sincerely yours,

DEWBERRY & DAVIS

A handwritten signature in cursive script that reads 'Joe F. Stanley'.

Joseph F. Stanley, P.E.
Project Engineer

JFS/jfs

cc: Mr. Paul C. Tax, Caswell County Manager

| Fac/Perm/Co ID # | Date | Doc ID# |
|------------------|------------|----------|
| 17-01 | 08/01/1995 | DIN/4614 |

State of North Carolina
Department of Environment,
Health and Natural Resources
Winston-Salem Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
Leesha Fuller, Regional Manager



January 11, 1995

Mr. Paul C. Tax, County Manager
Caswell County
P.O. Box 98
Yanceyville, NC 27379



Subject: Proposed Construction and Demolition Landfill
Site Plan Application Review

Dear Mr. Tax:

This is to notify you that the Solid Waste Section (the Section) has completed its review of the subject application, submitted on your behalf by Dewberry and Davis. The issues raised in the attached memorandum from Jim Bateson, Hydrogeologist for the Section, must be addressed before approval for the site plan can be issued.

Please be aware that a construction plan as required by 15A NC Admin. Code 13B .0504(2) must be submitted and approved before a permit to construct this facility can be issued.

For further discussion of this matter, please contact me at (910) 771-4600, or Jim Bateson at (919) 733-0692.

Sincerely,

Janis D. McHargue, P.E.
Western Area Engineer
Solid Waste Section

cc: Jim Coffey
Julian Foscue
Hugh Jernigan

Jim Bateson ✓ RAL OFF
Central and Regional Files
Joe Stanley; Dewberry and Davis

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Solid Waste Management

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
William L. Meyer, Director



MEMORANDUM

To: Jan McHargue Date: December 19, 1994
From: Jim Bateson cc: Bobby Lutfy
Subject: Completeness Review of Site Plan Application
Caswell County C&D Landfill

I have reviewed the hydrogeological aspects of the above referenced application, which had been submitted to the Solid Waste Section in March of this year. Most of the items required by section .0504(1) of 15A NCAC 13B have been provided, except for the following:

1. The Solid Waste Management Rules normally require a blueline version of the quarter mile map with topographic contours. Zoning information should be shown on the quarter mile map, or referred to on the margin of the map.
2. Even though they were addressed in the text, items i through iv (.0504(1)(b)) need to be shown on the two mile radius map. If not present within the radius, this should be noted on the margin of the map.
3. .0504(1)(i)(E) requires characterization of the hydraulic properties of each major lithologic unit. Saturated hydraulic conductivity of bedrock needs to be measured. Volume percent water and porosity of both bedrock and partially weathered rock need to be measured or estimated.
4. It is not clear from the text or Figure II whether the borehole elevations were accurately surveyed in relative to a permanent onsite benchmark.
5. An estimate of long-term seasonal high groundwater level is needed. Additional level readings on the site, as recommended by S&ME, will be useful, complemented by any available climatic and precipitation data.

When presenting a Construction Plan Application for the proposed C&D site, the operator should bear in mind that the section will approve permits for sites designed to accommodate only five years of projected fill.

Memo to Jan McHargue
Caswell County C&D Landfill
December 19, 1994
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Groundwater from the proposed C&D site needs to be monitored separately and distinctly from that of the existing municipal fill. The application will need to include a proposed water quality monitoring plan, sealed by a licensed professional geologist, with details of sampling and analytical procedures, plus construction information and locations of monitoring wells. These locations would be best presented on a map showing previous exploratory borings and both grading contours and groundwater elevation contours.

Though the conceptual plan shows ample buffers, the operator should bear in mind that the final waste boundaries need to be at least 200 feet from both existing waste boundaries and property boundaries.

including waste determination procedures where appropriate. Five sets of plans shall be required with each application.

(1) The following information shall be required for reviewing a site application for a proposed sanitary landfill:

(a) An aerial photograph on a scale of at least 1 inch equals 400 feet and a ^{need} blueprint of the photograph accurately showing the area within one-fourth mile of the proposed site's boundaries with the following specifically identified:

- ✓ (i) Entire property owned or leased by the person proposing the disposal site;
- OK, put on map ✓ (ii) Land use and zoning;
- ✓ (iii) Location of all homes, industrial buildings, public or private utilities, and roads;
- ✓ (iv) Location of wells, watercourses, dry runs, and other applicable details regarding the general topography; and
- ✓ (v) Flood plains.

(b) A map on a scale of at least 1 inch equals 1000 feet showing the area within two miles of the proposed site's boundaries with the following specifically identified:

- OK NEED MARGIN NOTES { (i) Significant ground-water users;
- (ii) Potential or existing sources of ground-water and surface water pollution;
- (iii) Water intakes;
- (iv) Airport and runways; and
- (v) Subdivisions.

(c) A geological and hydrological study of the site which provides:

(i) Soil borings for which the numbers and depths have been confirmed by the Division and lab testing of selected soil samples that provide:

- ✓ (A) standard penetration - resistance;
- ✓ (B) particle size analysis;
- ✓ (C) soil classification - USCS;
- ✓ (D) geologic considerations (slopes, solution features, etc.);
- ✓ (E) undisturbed representative geologic samples of the unconfined or confined or semiconfined hydrological units within a depth of 50 feet that provide the following information for each major lithologic units:

- (I) saturated hydraulic conductivity (or by in-situ);
- (II) volume percent water; and
- (III) porosity;

(F) remolded sample of cover soils that provide:

- ✓ (I) saturated hydraulic conductivity,
- ✓ (II) total porosity,
- (III) atterberg limits;

✓ (G) stratigraphic cross-sections identifying hydrogeological units including lithology:

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T15A: 13B .0500

✓ (H) tabulation of water table elevations at time of boring, 24 hours, and seven days (The number of cased borings to provide this information shall be confirmed by the Division.); and

✓ (I) boring logs;

(ii) A boundary plat locating soil borings with accurate horizontal and vertical control which are tied to a permanent onsite bench mark;

✓ (iii) A potentiometric map of the surficial aquifer based on stabilized water table elevations; and

✓ (iv) A report summarizing the geological and hydrological evaluation.

(d) A conceptual design plan presenting special engineering features or considerations which must be included or maintained in site construction, operation, maintenance and closure.

(e) Local government approvals:

(i) If the site is located within an incorporated city or town, or within the extra-territorial jurisdiction of an incorporated city or town, the approval of the governing board of the city or town shall be required. Otherwise, the approval of the Board of Commissioners of the county in which the site is located shall be required. Approval may be in the form of either a resolution or a vote on a motion. A copy of the resolution, or the minutes of the meeting where the vote was taken, shall be forwarded to the Division.

(ii) A letter from the unit of government having zoning jurisdiction over the site which states that the proposal meets all of the requirements of the local zoning ordinance. or that the site is

OK, put on map

OK NEED MARGIN NOTES

NEED BEDROCK PERM.

not on pwr, bedrock

seepage HIGH

ABANDONMENT OF TEMP. PIEZOMETERS

sketchy

SURVEY ?