



State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Solid Waste Management
P.O. Box 27687 · Raleigh, North Carolina 27611-7687

James G. Martin, Governor
William W. Cobey, Jr., Secretary

March 23, 1990

William L. Meyer
Director

Mr. Steven L. Moffat, Director
Bladen County Health Dept.
P.O. Box 188
Elizabethtown, NC 28337

RE: Inter-Agency Task Force Comments for proposed landfill site in
Bladen County, "NC 87 Site"

Dear Mr. Moffat:

Enclosed please find the comments of the Solid Waste Task Force
for the referenced site.

In reviewing these comments, it is very important for the County
to fully understand the purpose of the Task Force.

The Task Force's comments are based on surface and topographic
observations with little or no subsurface information available. All
pertinent subsurface information must be obtained during the
preparation of the site plan application. In addition, all other
siting requirements contained within Section .0503(1) of the Solid
Waste Rules are also provided in the site plan application.
Therefore, the Task Force can not approve or deny sites based on this
preliminary information. It can; however, provide negative and
positive comments on which sites appear favorable for further study
and subsequent preparation of a site plan application.

Each agency representative conducts the site investigation based
upon that agency's own concerns. However, the overall technical
siting criteria includes the following basic elements:

- Maximum depth to ground water
- Low permeability soils
- Adequate soil available for cover material
- A well-defined, ground-water flow direction and rate and
on-site discharge point

Mr. Steven Moffat
March 23, 1990
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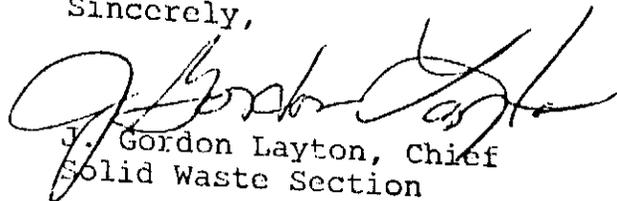
- Maximum distance from sensitive surface waters utilized as a drinking water supply
- Sufficient size to provide adequate "buffers" between waste disposal areas and property boundaries.

The basic siting criteria was developed over several years and preceded the Section's present requirement of engineered systems. However, the Section's position is that engineered devices, such as liners and leachate collection and removal systems, do not compensate for a poor site. The siting criteria is utilized to determine the best possible site as an added measure of protection should a liner system fail. In addition, the degree of engineered containment required by the Section will be site-specific. In other words, a good site may require a single liner while a marginal one may require a double-liner system.

In recent years, the site-selection process for sanitary landfills has become one of the most complex and difficult tasks undertaken by city and county governments. The Section hopes that this letter clarifies the Task Force's role in that process.

Should you have any questions, please contact my staff at (919) 733-0692.

Sincerely,



J. Gordon Layton, Chief
Solid Waste Section

Enclosure

JGL/mj

cc: Ikie Guyton
Terry Dover
Gary Ahlberg
Steve Reid



State of North Carolina
Department of Environment, Health, and Natural Resources
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James G. Martin, Governor
William W. Cobby, Jr., Secretary

March 14, 1990

William L. Meyer
Director

MEMORANDUM

TO: J. Gordon Layton
FROM: Gary W. Ahlberg *[Signature]*
RE: Task Force assessment of proposed landfill site in Bladen County, NC 87 at Elizabethtown

On February 27, 1990 the Inter-Agency Task Force met in Bladen County to evaluate the referenced site. Based on surficial observations and topographic information provided by the County, this assessment identifies site characteristics and specific areas of concern which must be addressed in the permitting process. Additionally, it provides a level of technical guidance to the applicant during the site-selection process.

"NC87 Site"

Located on the enclosed map, this 500+ acre site is just west of Elizabethtown, at SR 1336. It is situated adjacent to the Cape Fear River (south bank). The location provides good accessibility, yet it is also well isolated.

Generally, the site lies atop the bluff which runs with south bank of the river. A characteristic of the larger coastal plain rivers, this feature provides significant relief from the highway to the river. Most of the site is heavily forested, with less than 20 percent cleared farmland. Bakers Creek runs across the northern corner of the site and joins the Cape Fear River.

Considering groundwater characteristics, the site's location adjacent to the river (defined discharge area), the topography (assuming flow patterns are similar), and the absence of down-gradient water supply wells are favorable indicators. While higher elevations appeared well-drained, the potential for perched groundwater elevations exists (based on typical soils information). Such conditions, and complete hydrogeology must be defined in a site plan application.

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The site is large enough to incorporate required buffers, including a 300' buffer from the waste boundary to all property lines. Wetlands and floodplains should be delineated and buffered. Overall, the higher elevations (with gradual relief) should provide for good excavation depths (unusual for region). Combined with a large useable area, this site should satisfy long-term disposal needs and can be maximized by intergrating additional waste management programs on-site.

From a technical perspective, the site characteristics appear favorable for further investigation and site plan preparation.

GWA/mj



State of North Carolina
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Division of Environmental Health
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James G. Martin, Governor
William W. Cobey, Jr., Secretary

March 13, 1990

Richard K. Rowe
Director

MEMORANDUM

TO: Gary Ahlberg
Task Force Coordinator
Solid Waste Section

FROM: W. E. Venrick, Chief *W.E.V.*
Public Water Supply Section

RE: Proposed Landfill Site
Bladen County

We have reviewed the referenced site located north of highway 87 at state road 1155.

The site does not appear to have a potentially detrimental effect on any public water supplies. Therefore, we have no objection to this site being used as a landfill.

WEV:cf

cc: Mr. Richard K. Rowe
Mr. Frank Morris

DIVISION OF ENVIRONMENTAL MANAGEMENT

March 7, 1990



MEMORANDUM

TO: Gordon Layton
Solid Waste Branch

THRU: Perry Nelson, Chief *PN*
Groundwater Section

FROM: M. J. Noland, Regional Supervisor *MJNoland*
Fayetteville Regional Office

SUBJECT: Landfill Siting Task Force
Proposed Bladen County Landfill Site
Intersection of SR 1336 & NC Highway 87
Between Dublin and Elizabethtown
Bladen County

The subject landfill site was visited on February 27, 1990 by Mr. Jim Bales and myself. We saw no apparent shortcomings concerning the site's utilization as a landfill during our preliminary examination of the site. The groundwater flow direction is probably toward the river and no drinking water wells are known to be within 1500 feet of the proposed site. The Water Table seems to be greater than 10 feet below the surface across most the site and no inhabited structures are in the general area.

I feel the site is potentially acceptable from a Groundwater, Surface Water, and Air Quality point of view for a municipal landfill. It appears reasonable at this stage for the county to conduct additional studies toward identifying the hydrogeological conditions of the site. It is recommended that these observations be supplied to the Solid Waste Management Branch.

If there is any need for additional information or clarification, please advise.

MJN/JB/mla