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**FEDERAL PAPER BOARD COMPANY, INC.**

RIEGELWOOD OPERATIONS  
RIEGELWOOD, NORTH CAROLINA 28456  
TELEPHONE 919 655-2211

December 19, 1985



Mr. Gary Babb  
Division of Health Services  
P. O. Box 2091  
Raleigh, North Carolina 27602-2091

Dear Mr. Babb:

In response to Mr. Strickland's letter of December 3, the following information is submitted re the subject landfill:

1. Type of waste landfilled, past and present

The solid waste stream includes significant amounts of paper, wood, soil (primarily from our woodyard area), lime grits, boiler ash, and wood fiber from the primary waste clarifier. It also contains the household wastes from the immediate Riegelwood community of about 700 persons and the cafeteria wastes from Federal's plant. Materials in minor amounts include scrap metal (primarily steel strapping, small sheet metal items, metal containers of various sorts, wire, nails, etc.), glass, and construction/demolition wastes.

Prior the the RCRA program being implemented, the waste stream also included the paint wastes from the plant. These wastes are now disposed of in an off-site hazardous waste incinerator.

The miscellaneous plant wastes from the Linden chlor-alkali plant are included in the above-described waste stream.

2. Chemical composition of waste

The description of the waste above should provide a general knowledge of the nature of the waste. With the relatively large amounts of wood-waste (bark, wood chips, and logs) in the waste and the wood fiber in the primary clarifier solids, it is likely that methane is generated to some extent. There is probably some hydrogen sulfide generation, but not to the extent that the landfill has a sulfide odor.

3. Anticipated changes - variability in waste stream

The only change in the nature of the waste now anticipated is the operation of a separate area of the mill site as a demolition disposal site, and the disposal of soil and woodwaste materials and construction type demolition wastes in the new demolition waste disposal site. This is not expected to make significant changes in the physical or chemical character of the landfill.

4. Map of site

Attached.

5. Water supply wells within 1/4 mile

N/A

6. Apporximate depth of groundwater

It may be observed from the enclosed map of the site that the landfill is surrounded basically on three sides by the aerated stabilization system. A major portion of the fourth side is bounded by a waste canal.

While the depth to groundwater is not known, it is likely that groundwater is present continuously from the basin level downward. Some recent test borings on the northern side of the outer perimeter of the basin dikes located groundwater at the 12 to 19 foot depths.

Over the years, it has been our opinion that any seepage from the landfill area is to the waste basin, where biological treatment is present. Mr. Strickland has concurred in this opinion on several occasions; thus monitoring has not been required.

7.-9. Monitoring wells

N/A

I trust that the information supplied will meet your needs. I would suggest, however, that the site be examined prior to specifying wells, depths, and locations, as in this particular situation, monitoring wells are not likely to be too useful in assessing the landfill's impact on groundwater.

Very truly yours,

FEDERAL PAPER BOARD COMPANY, INC.  
Riegelwood Operations



M. T. White  
Environmental Resources Supervisor

MTW/mha

Attachment

cc: Mr. Doug Holyfield

Mr. Babb

The approximate current  
landfill area has been marked  
on this for reference.

Mr. White  
Our property drawing is in  
your file.

**FEDERAL**

*Columbus*

**FEDERAL PAPER BOARD COMPANY, INC.**

RIEGELWOOD OPERATIONS  
RIEGELWOOD, NORTH CAROLINA 28456  
TELEPHONE 919 655-2211

April 15, 1985



Mr. William Meyer, Head  
Solid and Hazardous Waste Management Branch  
Division of Health Services  
P. O. Box 2091  
Raleigh, North Carolina 27602

Dear Mr. Meyer:

This is to inform you that on Friday, April 5, a fire of considerable proportion was experienced on our landfill. The Federal fire squad and the Acme-Delco-Riegelwood Fire Department extinguished the blaze several times.

The above fire flared several times during the week of April 7, and was promptly extinguished each time it flared.

The cause of the fires could not be determined, but the extreme draught had produced such a fire-prone situation that it could have resulted from any of several causes.

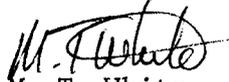
We have intensified our anti-smoking effort, checked the exhausts on all vehicles, and alerted all authorized haulers to the site of the fire hazard and requested their cooperation in preventing a recurrence of this situation.

April 15, 1985

I am sure the weekend rains have done much to help this situation also.

Very truly yours,

FEDERAL PAPER BOARD COMPANY, INC.  
Riegelwood Operations



M. T. White  
Environmental Resources Supervisor

MTW/jg

cc: D. G. Bollinger  
L. C. Burchette  
J.-C. Corbi  
J. W. Cowand, Jr.  
E. C. Fox, Jr.  
G. B. Harris  
T. M. Johnson  
L. A. Mattes  
J. M. Padrick  
M. C. Pigott  
L. K. Semke  
A. W. Stafford  
J. Vuoso  
L. T. Waddell  
J. L. Zuncich  
Group Leaders  
Shift Supervisors  
Project: 5-175/B1  
Doug Holyfield  
P. O. Box 4484  
Wilmington, N. C. 28406



*Columbus*

North Carolina Department of Human Resources  
Division of Health Services  
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor  
Phillip J. Kirk, Jr., Secretary

Ronald H. Levine, M.D., M.P.H.  
State Health Director  
919/733-3446

February 25, 1985

Mr. Jim Poteat  
US Army Engineer District, Wilmington  
P.O. Box 1890  
Wilmington, N.C. 28401

RE: FEDERAL PAPER BOARD (COLUMBUS COUNTY) PROPOSED DISPOSAL SITES -  
PERMIT APPLICATION

Dear Jim:

Enclosed is referenced permit application. Please indicate if your agency has concerns, recommendations, etc., for this proposal.

Our district representative for this area is Doug Holyfield in Wilmington (ph. 791-8720).

Thank you in advance for your assistance.

Sincerely,

  
J. Gordon Layton, Environmental Engineer  
Solid & Hazardous Waste Management Branch  
Environmental Engineer

JGL/plg

Enclosure:  
Permit Application

cc: Doug Holyfield



North Carolina Department of Human Resources  
Division of Health Services

P.O. Box 2091 • Raleigh, North Carolina 27602-2091

February 9, 1987

James G. Martin, Governor  
Phillip J. Kirk, Jr., Secretary  
Marshall White  
Federal Paperboard  
Riegglewood Operations  
Riegglewood, NC 28456

Ronald H. Levine, M.D., M.P.H.  
State Health Director

RE: Self-monitoring Program at Federal Paperboard Landfill.

24-02  
COLUMBUS

Dear Mr. White:

The Solid and Hazardous Waste Management Branch is in the process of implementing a ground-water monitoring plan effective May 1, 1987 for all currently permitted industrial sanitary landfills within North Carolina. This plan is designed so that all facilities will be responsible for sampling their own ground-water monitoring wells on site and reporting the results to this office within 15 days of receipt.

The Solid Waste Unit ground-water monitoring personnel are currently completing a document which will stipulate approved sampling methods, frequency of sampling and sampling constituency for non-industrial (i.e. municipal) landfills. Because industrial landfills are heterogeneous in composition based upon the unique wastes produced at each facility, it is imperative for this office to establish a clear perception of what specific manufacturing processes and subsequent waste are produced at each facility in order to establish specific monitoring goals. For this reason, please complete the enclosed questionnaire in order to update our records, and return it within 15 days if at all possible to the Solid Waste Hydrogeologist.

Many industrial facilities are currently performing self-monitoring. For these industries, the primary change includes State guidance and supervision with respect to which specific parameters and environmental indicators will be analyzed and at what frequency. The State will retain the option of splitting samples periodically with the facility for comparative and statistical purposes. Within the next 60 days each facility shall receive a tentative listing of constituents to test for and at what interval, therefore, your comments and input regarding the above are requested as soon as possible.

If you have further comments or questions please contact this office at (919) 733-2178.

Sincerely,

Michael L. Babuin, Hydrogeologist  
Solid & Hazardous Waste Management Branch  
Environmental Health Section

MLB/mj/6213 pg 10

Enclosure

DIVISION OF ENVIRONMENTAL MANAGEMENT

GROUNDWATER SECTION

11 January 1985



M E M O R A N D U M

TO: Bill Meyer, Head  
Solid and Hazardous Waste Management Board

FROM:  Robert F. Helms, Director   
Division of Environmental Management

SUBJECT: Federal Paper Board Landfill

Based on review of the subject facility plan, the staff has no objections to issuance of a permit to the facility subject to the following conditions:

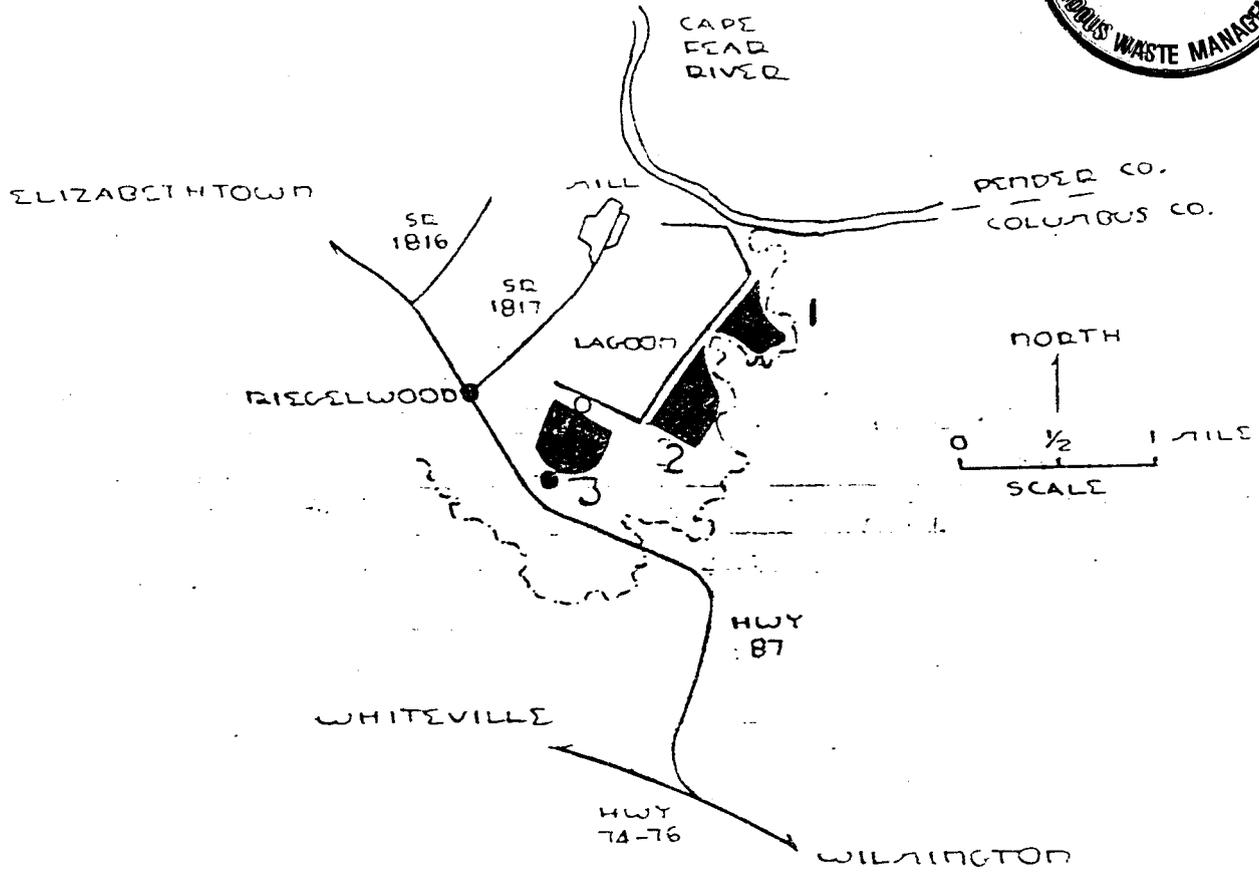
1. The permit should specify that no materials, other than those described in the application, are approved for disposal in any of the landfills.
2. Permit monitoring requirements should include three wells constructed at the locations shown on the attached diagram. The wells should be sampled a minimum of three times a year, during the months of March, July and November. Parameters analyzed should include Fe, Cl, TDS, TOC, Phenol, COD, As, Cr, SO<sub>4</sub>, pH, Conductance and water levels (to be measured before obtaining samples).

If you have any questions, please call Perry Nelson at 733-5083.

RFH/LLL/cbe

cc: Perry Nelson  
W. Lee Fleming  
Chuck Wakild

AGREEMENT SHOWS THE LOCATION OF THE PROPOSED  
 LANDFILLS, FEDERAL PAPER BOARD CO., INC., RIEGELWOOD,  
 COLUMBUS COUNTY



EXPLANATION:

- - PROPOSED LOCATION OF LANDFILL
- 2 - REFERENCE NUMBER
- - PROPOSED LOCATION OF BACKGROUND MONITORING WELL (EXPOSE TO GA ZONE)
- - PROPOSED LOCATION OF MONITORING WELL (EXPOSE TO GA ZONE AND LOCATE AT PERIMETER OF COMPLIANCE)
- LIVINGSTON CREEK

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