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

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DEHNR

July 24, 1996

Warren W. Schindle, P.E., County Engineer
Gaston County
P.O. Box 1578
Gastonia, NC 28053

SUBJECT: Closure of the Auten Landfill
Permit # 36-03

Dear Mr. Schindle:

The Solid Waste Section (the Section) has received and reviewed documentation submitted by your consultant, MSA Consulting Engineers, on your behalf regarding the subject facility. Based on this documentation, the Section has determined that the subject facility has been closed in accordance with the applicable requirements. This determination may be rescinded should any of the documentation prove to be inaccurate.

The subject facility is considered closed subject to the attached post closure conditions. The owner of the facility, Gaston County, is responsible for compliance with these conditions.

This closure shall become effective upon written notification by Gaston County that the facility shall be maintained in compliance with the post closure conditions specified in this letter. Also, Rule .0510 states that when a disposal unit is closed, the permit to operate that unit is terminated and any future disposal operations will require approval by the Section.

POST CLOSURE CONDITIONS

1. **MANAGEMENT OF LANDFILL GAS:** The owner and/or operator shall take the measures necessary to ensure that the closed site shall continue to meet the design standards for landfill gas found in Rule .0503(2)(a).

2. **MANAGEMENT OF SURFACE WATER:** The owner and/or operator shall take the measures necessary to ensure that the closed site shall meet the requirements of Rule .0503(2)(c). In addition, the landfill unit shall be maintained such that surface water runoff occurs in a controlled manner, and surface water shall not be impounded over waste.

3. **AIR QUALITY:** The owner/operator shall ensure that landfill units do not violate any applicable requirements developed under a State Implementation Plan approved or promulgated by the U.S. EPA Administrator pursuant to Section 110 of the Clean Air Act, as amended.

4. **FINAL COVER SYSTEM:** The integrity and effectiveness of the final cover system and any permanent erosion control devices must be maintained. This could include making repairs to the cover as necessary to correct the effects of settlement, subsidence, erosion, or other events.

5. **PROPOSED USES:** The owner/operator shall submit a proposal for the Section's review and approval addressing post closure uses of the facility. Proposed post closure uses shall not violate any post closure conditions found in this letter. In particular, plans for post closure uses shall avoid possibilities for the entrapment of methane gas. Routine landfill gas monitoring within structures and at the facility boundary may not be sufficient to detect potentially dangerous situations.

6. **ONGOING SOLID WASTE MANAGEMENT ACTIVITIES:** Continuing solid waste management activities (e.g. yard waste composting, scrap tire collection, solid waste transfer) shall not violate any post closure conditions found in this letter, and must meet any other applicable requirements.

7. **RECORDATION:** The owner/operator shall ensure that the recordation requirements for land disposal sites found in Rule .0204 are met.

8. **WATER QUALITY MONITORING AND REPORTING REQUIREMENTS:**

a. Groundwater quality at this facility is subject to the "Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina", 15A NCAC 2L. This includes, but is not limited to, the provisions for detection monitoring, assessment, and corrective action.

b. Water quality detection monitoring shall include sampling of surface water monitoring points, to be approved by the section, in addition to sampling of the existing monitoring wells at the facility. The permittee shall sample the detection monitoring wells and surface water sampling locations at a minimum on a semi-annual basis.

c. Water quality detection monitoring shall continue for a minimum of five years from the date of the Section's receipt of Gaston County's notification that the facility will be maintained in compliance with the post-closure conditions specified in this letter. After five years the Section will determine if further monitoring is to be required.

d. Sampling equipment and methods shall conform to specifications in Attachment 1, "North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities". The sampling parameters and methods shall be those found in Attachment 2, "Sampling and Analysis Requirements for Construction and Demolition Landfills and Closed Sanitary Landfills", or an alternate parameter list as approved by the Section.

e. The permittee shall maintain a record of all monitoring events and analytical data. Reports of the sampling events and analytical data shall be submitted to the Section in a timely manner.

f. Past groundwater quality data for this facility indicates that Groundwater Quality Standards have been exceeded for some chemical constituents. Additional water quality assessment will be necessary in the future. Until such time Gaston County will continue to monitor and sample ground water consistent with Conditions b, c, and d of this section.

If there are questions regarding this closure letter, please call Matthew Gantt, P.E. in the Winston-Salem Regional Office at (910) 771-4600, or the Solid Waste Section at (919) 733-0692.

Sincerely,

James C. Coffey

James C. Coffey
Permitting Branch
Solid Waste Section

cc: Julian Foscue
Matthew Gantt, P.E.
Bobby Lutfy
Anthony Foster
MSA Consulting Engineers
Central Files