

5101Permit1990 - Batch No.\_\_\_\_

9

Johnston Co.

5101990



CF-55-01

51-01

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

October 25, 1990

William L. Meyer  
Director

Mr. Haywood Phthisic  
Johnston County Utility Department  
P. O. Box 2263  
Smithfield, North Carolina 27577

RE: Amendment to Permit #51-01, Vertical Expansion Johnston County  
Landfill, North Carolina

Dear Mr. Phthisic:

The enclosed Amendment to Permit for the referenced facility is approved in accordance with G.S. 130A-294, subject to the conditions of the Permit.

This permit is for a four (4) year vertical expansion as requested in the application.

Please note General Condition No. 1 which states that modifications of this permit may be required in accordance with upcoming revisions to the Solid Waste Management Rules and revised EPA Subtitle D criteria. Modifications to the construction and operational plans or even closure of this landfill may be required before the permit period expires. The Conditions of this Permit supersede any conditions issued heretofore. This amendment provides a planning period, which the County should use to develop a comprehensive solid waste management plan.

Please note Construction and Operational Condition No. 2 which states that all sedimentation/erosion control activities be conducted in accordance with the Sedimentation Control Act (15 NCAC 4). Enclosed is the letter of approval from the Land Quality Section.

Also note Monitoring Requirement Condition No. 1 which states that a plan for the surface and ground water monitoring for the facility must be approved by the Solid Waste Section by December 31, 1990. Condition No. 2 states that all wells must be installed by February 28, 1991.

If the above conditions and all others listed in the Permit are not met, Johnston County will be subject to a Notice of Violation.

Mr. Phthisic  
October 25, 1990  
Page 2

We look forward to your continued cooperation in development of the Johnston County Landfill and additional improvements to solid waste management in Johnston County. Please keep us updated on your progress.

If you have any questions, please call me at (919)733-0692.

Sincerely,

*Suzanne Molloy*

Suzanne Molloy  
Environmental Engineer  
Solid Waste Section

Enclosures

cc: Terry Dover  
Fred Wood  
Timothy Baldwin  
Bobby Lutfy  
Richard Self

PERMIT NO.55-01  
October 25, 1990

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES  
DIVISION OF SOLID WASTE MANAGEMENT  
P. O. BOX 27687 RALEIGH, NC 27611-7687

S O L I D W A S T E P E R M I T

Johnston County

is hereby issued a permit to operate a

SANITARY LANDFILL

located

S.R.1503 Johnston County, North Carolina

in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit.

  
\_\_\_\_\_  
William L. Meyer, Director  
Solid Waste Mangement Division

AMENDMENT TO SOLID WASTE PERMIT

Johnston County Landfill

CONDITIONS OF PERMIT:

1. This amendment to permit is issued for a period not to exceed four years from the date of issuance. Upcoming amendments to the Solid Waste Management Rules, in accordance with EPA Subtitle D revisions, may necessitate the modifications of the construction and operation plans or even closure of this facility prior to this date.
2. When this property is sold, leased, conveyed or transferred, the deed or other instrument of transfer shall contain in the description section in no smaller type than used in the body of the deed or instrument a statement that the property has been used as a sanitary landfill.

CONSTRUCTION AND OPERATION PLANS

1. This permit is for construction according to the attached plans. Additional conditions and revisions of the approved plans shall be approved by the North Carolina Solid Waste Section.
2. All sedimentation/erosion control activities will be conducted in accordance with the Sedimentation Control Act (15 NCAC 4).
3. This facility shall conform to operating procedures in Rule .0505 of the Solid Waste Management Rules, and the conditions specified herein.
4. A closure and post-closure plan must be submitted for approval at least 90 days prior to closure or partial closure. The plan must include all steps and measures necessary to close and maintain the facility in accordance with all rules in effect at that time. The final cover will be evaluated based upon performance and upgraded if necessary.

MONITORING REQUIREMENTS

1. Johnston County shall submit a plan to the Solid Waste Section by December 31, 1990 addressing necessary ground and surface water monitoring requirements.
2. Johnston County shall sample monitoring wells and surface waters as per the N.C. Water Quality Monitoring Guidance Document. All additional monitoring wells shall be installed by February 28, 1991.
3. Well completion records shall be submitted to the Solid Waste Management Division for each ground water monitoring well constructed.
4. Ground water quality at this facility is subject to the classification and remedial action provisions referenced in Rule .0503 (2) (d) of 15 NCAC 2L.

~~Jerry Hodge~~ / Jerry Hodge  
 Project manager  
 Ragsdale Consultants, P.A.

Timothy Baldwin

County:  
 Haywood Philisid  
 Johnston Co Utility Dept.  
 P.O. Box 2263  
 Smithfield, NC 27577  
 (919) 989-5075

310 E. Johnston St. PERMIT APPLICATION TRACKING SYSTEM  
 SOLID WASTE MANAGEMENT FACILITY  
 P.O. Box 1749  
 Smithfield, NC 27577

781-6400  
 (Kaleigh)

GENERAL INFORMATION

APPLICANT Johnston Co. TYPE OF FACILITY MSWF  
 TYPE OF WASTE MSW TYPE OF APPLICATION Vertical Expansion #51-01  
 LOCATION OF FACILITY S.R. 1503

PERMITTING PROCESS

PRELIMINARY SITING ASSISTANCE, TYPE \_\_\_\_\_ DATE \_\_\_\_\_

29<sup>th</sup>  
 Oct.

APPLICATION	APPLICATION RECEIVED	COMPLETENESS REVIEW, LETTER SENT	ADDITIONAL INFORMATION RECEIVED	NRCD		TECHNICAL REVIEW LETTER SENT	ADDITIONAL INFORMATION RECEIVED	
				SENT	COMMENTS RECEIVED			
SITE PLAN	4/30/89 3/6/90 11/8/89 4/12/90	<del>3/12/90</del> 4/19/90	9/14/90	9/20/90	Sent to LG			
SITE SUITABILITY ACTION TAKEN: ACTIVITY _____ (DEM) DATE _____								
CONSTRUCTION PLAN								
PERMIT ACTION TAKEN: ACTIVITY _____ PERMIT NO. _____ (LQ) DATE _____								

Jerry Hodge  
 828-2788

PERTINENT ACTIVITY

DATE	TYPE OF ACTIVITY	COMMENTS
4/16	Conversation w/ Jane Allen - Ragsdale - See notes.	10/31 <sup>Try to</sup> Talked to Timothy Baldwin
4/18	Called Haywood Pitkinic - Phase I - model Airplane club. have settling problems. Have 2 yrs left if don't go to Section II - phase II	w/ Ragsdale to inform about problems w/ LF SW monitoring system. Left <del>10/31</del> message to return call. Set up meeting time for 9/24/90 9AM. 10/22
8/7/90	Returned Jerry Hodge's call. NOT in	
8/9/90	Tried again 3x, busy, Gary answered question, is not going to put basin on top of trail.	
8/20/90	Sent complete application letter Sent to LQ Talked to Mr. Baldwin, plan is only for 4y. vert. exp.!	
10/1/90	LQ letter of receipt, call Ragsdale, left message.	
10/1/90	Send 3 copies to me, other 2 to follow if LQ approves revisions	



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State of North Carolina  
Department of Environment, Health, and Natural Resources  
Raleigh Regional Office

James G. Martin, Governor

DIVISION OF LAND RESOURCES  
September 25, 1990

William W. Cobey, Jr., Secretary

County of Johnston  
PO Box 1049  
Smithfield, NC 27577  
ATTN: Norman Denning, Chairman

RE: Letter of Receipt  
Project Name: Johnston County Landfill Vert. Exp.  
Location: Johnston County  
Submitted by: Ragsdale Consultants, P.A.  
Date Received: 9-21-90

Dear Mr. Denning:

This office has received an Erosion and Sedimentation Control Plan for the subject project in accordance with the the Sedimentation Pollution Control Act of 1973 (North Carolina General Statute 113A-57).

Please be advised that this Act requires that all persons disturbing an area of one or more contiguous acres of land must obtain approval of an Erosion and Sedimentation Control Plan prior to the commencement of the land-disturbing activity. The Act further states that this plan must be filed a minimum of 30 days prior to the activity and that the approving authority must approve or disapprove the submitted plan within 30 days of receipt. Failure of the approving authority to approve or disapprove the submitted plan within the 30 day period will be deemed approval of the plan. Commencement or continuation of any land-disturbing under the jurisdiction of this Act prior to the approval of an Erosion and Sedimentation Control Plan is a violation of the Act.

We have performed a preliminary review of the submitted plan and have determined that additional information will be necessary. Enclosed is a checklist indicating items that must be submitted to facilitate proper completion of our review. Failure to provide the additional information may result in disapproval of the plan.

We will complete our review of the proposed plan as soon as possible and will notify you concerning our findings. If you have any questions or need additional information please do not hesitate to contact this office. Your cooperation in this matter is appreciated.

Sincerely,

John L. Holley, Jr., P.E., CPESC  
Regional Engineer  
Land Quality Section

cc: Timothy Baldwin, P.E.  
Suzanne Malloy

JLH

3800 Barrett Drive, Suite 101 • Raleigh, N.C. 27609  
Telephone (919) 733-2314 • FAX Number (919) 733-7072

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N.C. DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT  
LAND QUALITY SECTION

SEDIMENTATION & EROSION CONTROL PLAN PRELIMINARY REVIEW CHECKLIST

To expedite the approval process, a cursory review of your submitted Erosion Control Plan has been made and has shown the need for additional information as specified below. To meet our review schedule, any additional information should be received by this office no later than 10-6-90. Failure to meet this schedule may result in disapproval of your plan.

- Notarized, completed Financial Responsibility / Ownership Form
- Location information:
  - roads, streets
  - north arrow
  - adjoining lakes and watercourses
- Ground cover specifications:
  - permanent seeding
  - temporary seeding
  - mulch and tack
  - seedbed preparation
  - soil amendments
- Construction details of all sediment and erosion control measures
- Engineering design calculations for:
  - storm drains
  - sediment basins
  - ditches, swales or diversions
  - energy dissipators at stormwater outlets
  - other \_\_\_\_\_
- Sequence of construction activity with emphasis on minimizing erosion control problems
- Site drawings with adequate topographic detail and all sediment and erosion control measures located
- Locations and proposed treatments of off-site borrow or waste areas
- Narrative description of project and erosion control objectives
- Soils information

Other 1) Depth of stone for Rip Rap should be shown on plans 2) ~~Detail~~ Details from back page are not clearly referenced on drawings 3) Detail D is not adequate - pipe should be extended through terrace 4) Check dam needed at outlet of diversion @ Basin #6 5) Channel # 5 needs measure @ outlet 6) Sediment control needed below fill below Basin #7

Reviewed by Wyatt BROWN, CPESC



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

September 20, 1990

William L. Meyer  
Director

Mr. Timothy J. Baldwin  
Project Manager  
Ragsdale Consultants, P.A.  
4601 Lake Boone Trail  
Raleigh, North Carolina 27607

RE: Receipt of Complete Application - Proposed Vertical Expansion,  
Johnston County Landfill, Amendment to Permit #51-01

Dear Mr. Baldwin:

On September 14, 1990, the Solid Waste Section received a complete application for the referenced project. The Section is currently evaluating the application to assure its compliance with the North Carolina Solid Waste Management Rules.

If you have any questions, please contact our office at (919)733-0692.

Sincerely,

*Suzanne Molloy*  
Suzanne Molloy  
Environmental Engineer  
Solid Waste Section

cc: Haywood Phthisic



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

September 20, 1990

William L. Meyer  
Director

Mr. John Holley  
Raleigh Regional Office  
Land Quality Section  
P. O. Box 27687  
Raleigh, North Carolina 27611

RE: Soil Erosion and Sedimentation Control Plan - Vertical  
Expansion, Johnston County Landfill, Amendment to Permit #51-01

Dear Mr. Holley:

Please review the enclosed construction plans for the referenced landfill to determine if the proposed land disturbing activities are in compliance with NCAC Title 15 Chapter 4.

All comments from your review will be incorporated into the conditions of the permit.

If there are any questions, please call me at (919)733-0692.

Sincerely,

*Suzanne Molloy*

Suzanne Molloy  
Environmental Engineer  
Solid Waste Section

ENCLOSURE



# RAGSDALE CONSULTANTS, P.A.

4801 LAKE BOONE TRAIL

— RALEIGH, N.C. 27607

TELEPHONE (919) 781-8400 or 781-8541

September 10, 1990



Ms. Suzanne Molloy, Environmental Engineer  
Solid Waste Section  
Division of Solid Waste Management  
N.C. Department of Health and Natural Resources  
P.O. Box 27687  
Raleigh, North Carolina 27611-7687

Re: Proposed Vertical Expansion  
Permit #51-01 Johnston County Landfill

Dear Ms. Molloy:

Transmitted herewith for your review are four sets of drawings and calculations for the above referenced proposed permit amendment. These have been revised in accordance with your comments of April 19, 1990.

Several of those comments warranted brief narrative response as follows:

- 1) The drawings now include all pertinent features and labeling of phases.
- 2) Soil erosion and sedimentation control calculations are transmitted herewith.
- 3) The drawings reflect the designation of Phase IV, Section 2 as a borrow area and landfill life calculations have been revised accordingly.
- 4) As you will note in the landfill life calculations a time period of approximately 4 years has been applied for.
- 5) This compaction rate is actual field density estimated by the Director of Public Utilities based on current operating practice and equipment. No additional special equipment will be required to obtain this density.
- 6) As for comment #3, the drawings reflect Phase IV Section 2 as a borrow area with complete site plans and calculations transmitted herewith.

ENGINEERING • LANDSCAPE ARCHITECTURE  
SURVEYING • PHOTOGRAMMETRY

Ms. Suzanne Molloy  
September 10, 1990  
Page 2

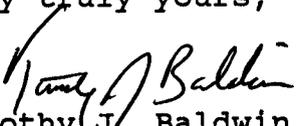
7) Drawings have been revised to more clearly indicate existing versus proposed features.

8) The Director of Public Utilities has indicated that the borrow will be excavated as the need arises, and that the consistency of the material should preclude the necessity for stockpiling large amounts of soil or final cover. Since erosion and sediment control measures for the borrow area are not required to be phased, it would be a simple matter for borrow material to be stockpiled anywhere in this area for later use, should soil conditions encountered justify it.

Due to the relatively complex phasing requirements, with associated temporary facilities, we believe it would be extremely valuable to conduct a review meeting with the reviewing engineers from your division and the Land Quality Division, along with representatives of this firm. This review should be conducted as early as possible, if not just prior to the resumption of your review process. Please contact me to arrange this meeting at your earliest opportunity.

Thank you for your assistance. Please do not hesitate to contact me if you have any question or comments regarding this application.

Very truly yours,

  
Timothy J. Baldwin, P.E.  
Project Manager

TJB/jw

cc: Haywood Phthisic



Johnston Co.  
51-01  
Permit

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

William L. Meyer  
Director

April 19, 1990

Jane D. Allen  
Project Manager  
RAGSDALE CONSULTANTS, P.A.  
310 E. Johnston Street  
P.O. Box 1749  
Smithfield, N.C. 27577

RE: Completeness Review - Johnston County Landfill, Amendment to  
Permit #51-01

Dear Mrs. Allen,

The Solid Waste Section has completed its preliminary review of the referenced project. In accordance with the the N.C. Solid Waste Management Rules and the corresponding guidelines outlined in the "Design Requirements for Vertical Expansion of Existing Sanitary Landfills" document, the following information/revisions are required to continue the agency's review:

- 1) .0504 (2) (a): A map showing all pertinent features of the site must be provided.

Location and labeling of existing Phase II and Phase III do not coincide with master plan, drawing No. 2 of 8, January, 1978. Northerly direction, all monitoring wells on the site (numbered), and benchmarks (should not be referenced through text) must be shown properly on master plan for reference and recordation.

- 2) .0504 (2) (h): Soil and erosion control calculations should be included for temporary and permanent measures. Calculations must substantiate "appropriateness" of sizing related to needs of drainage, soil conditions, erosion control, carrying capacity, and site conditions.
- 3) As per conversation with Haywood Phthisic, Section II of Phase IV is to be used as a borrow area; therefore, landfill life calculations need to be modified to exclude this area.

- 4) As solid waste permits can only be issued for a period of five years, it is recommended that the vertical expansion be limited to accommodate closure as deemed necessary at the end of this time period. Reassessment of a twenty foot expansion may be necessary.
- 5) What type of equipment is to be used? A compaction rate of 1000lbs/CY is referenced. Any equipment requirements necessary to properly operate a vertically expanded landfill must be addressed.
- 6) As Section II of Phase IV is to be used as a borrow area, an excavation, grading, stabilization, and drainage plan, in conjunction with a construction sequence, must be provided. This area should be designated as a borrow area on the plans.
- 8) A plan for stockpiling most appropriate soil for final cover should be addressed.
- 7) Drawing No. 2 of 9 does not correlate with construction sequence for Section I of Phase IV. Diversion ditches, sediment basins, and dissipation basins have been labelled improperly.

These comments are intended to expedite the review of the application, and in no way do they restrict the Section's right to request additional information following the technical review process.

If there are any questions, or you would like to schedule a meeting to discuss the application, please contact me at (919) 733-0692.

Sincerely,

*Suzanne Molloy*

Suzanne Molloy  
Environmental Engineer  
Solid Waste Section

cc: Haywood Phthisic  
Terry Dover  
Fred Wood

Johnston County  
51-01



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

William L. Meyer  
Director

April 16, 1990

Jane D. Allen  
Project Manager  
RAGSDALE CONSULTANTS, P.A.  
310 E. Johnston Street  
P.O. Box 1749  
Smithfield, N.C. 27577

RE: Acknowledgement of Receipt, Proposed Vertical Expansion, Permit  
# 51-01, Johnston County Landfill

Dear Mrs. Allen,

The Solid Waste Section has received your letter dated March 14, 1990. The Section is currently analyzing the application for completeness. The Section will acknowledge receipt of a complete application.

If you have any questions, please contact our office at (919) 733-0692.

Sincerely,

*Suzanne Molloy*

Suzanne Molloy  
Environmental Engineer  
Solid Waste Section

cc: Mr. Haywood Phthisic



# RAGSDALE CONSULTANTS, P.A.

310 E. JOHNSTON STREET

P.O. BOX 1749

SMITHFIELD, N. C. 27577

TELEPHONE (919) 834-7154



March 14, 1990

Mr. Jim Coffey  
Solid Waste Branch  
Division of Health Services  
North Carolina Department of Human Resources  
Post Office Box 2091  
Raleigh, North Carolina 27602-2091

51-01

Re: Johnston County Landfill  
Permit No. 51-01

Dear Mr. Coffey:

On June 29, 1989, we submitted plans for a proposed vertical expansion at the Johnston County landfill. Please let us know the status of the review process. Please be aware that we estimate a remaining life of approximately 2 years on the current permit.

Should you require any additional information, please contact me.

Respectfully submitted,

Jane D. Allen, P.E.  
Project Manager  
RAGSDALE CONSULTANTS, P.A.

JDA:dlb

cc: Mr. Haywood Phthisic

ENGINEERING • LANDSCAPE ARCHITECTURE  
SURVEYING • PHOTOGRAMMETRY

RALEIGH OFFICE: 4601 LAKE BOONE TRAIL, RALEIGH, N.C. 27607 (919) 781-6400  
LILLINGTON OFFICE: P.O. BOX 760 LILLINGTON, N.C. 27546 (919) 893-2156