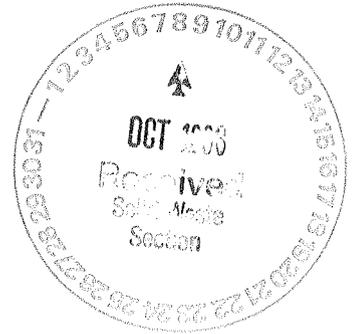


Gary W. Ahlberg, P.E.
Engineering & Consulting Services

1010 Saralyn Road
Pittsboro, North Carolina 27312



October 8, 1996

Mr. James C. Coffey
NC DEHNR Division of Solid Waste Management
Solid Waste Section
P.O. Box 27687
Raleigh, NC 27611-7687

RE: WILSON COUNTY MSWLF TRANSITION PLAN
REVISONS TO REPORT & SUBMITTALS

Fac/Perm/Co ID #	Date	Doc ID#
98-01 <i>mg</i>	7 115 1201	DIN 14388

Dear Mr. Coffey:

In behalf of Wilson County, the following permitting documents are submitted for review and approval by the NC Solid Waste Section.

1. DRAFT REPORT (1 copy): This is the original Transition Plan Report modified according to our 18 July 96 "Response to Comments" and the 23 Aug 96 SWS correspondence following our meeting. The draft incorporates strikethrough text (for deletion) and underlined new text to assist in the review process.
2. FINAL REPORT (3 copies): This is the completed Transition Plan document which should replace the current copies on file.
3. MONITOR WELL LOCATION MAP for WILSON COUNTY LANDFILL, F.T. Green & Associates, 10 Mar 95. The survey data for the existing monitoring wells is provided in this map.
4. MONITORING WELL PERMEABILITY DATA, Environmental Investigations, P.A. The slug test results for the monitoring wells.
5. DEED DESCRIPTION FOR BUFFER ZONE. In addition to the plat submitted with the permit amendment request, the recorded deed is included.

Please note that the request to amend the facility boundary was submitted separately and is an integral component of this Transition Plan. We appreciate the Section's assistance in finalizing this permit.

Should you have any questions regarding these documents, please contact me by telephone or telex at (919) 542-5286.

Sincerely,

A handwritten signature in cursive script, appearing to read "Gary W. Ahlberg".

Gary W. Ahlberg, P.E.
Project Engineer

Gary W. Ahlberg, P.E.
Engineering & Consulting Services

1010 Saralyn Road
Pittsboro, North Carolina 27312

July 18, 1996

Mr. James C. Coffey
NC DEHNR Division of Solid Waste Management
Solid Waste Section
P.O. Box 27687
Raleigh, NC 27611-7687

RE: WILSON COUNTY MSWLF TRANSITION PLAN
RESPONSE TO COMMENTS

Dear Mr. Coffey:

In order to provide a comprehensive response to comments by the Solid Waste Section (SWS) regarding the referenced plan, we have met with Mssrs. Greg Eades, Jim Bateson, Bobby Luffy, and Mark Poindexter on several occasions. Prepared in behalf of Wilson County, this letter addresses the comments issued in SWS correspondence dated 15 May 95 and 21 June 96 and incorporates the conclusions of our discussions with SWS staff. The Semi-annual Water Quality Monitoring Report prepared by ARG Engineering, Inc. in February 96 provides information pertinent to comments on the Water Quality Monitoring Plan and related compliance issues.

Separate correspondence is attached to amend the facility description to include a 300-foot buffer along the southeast boundary of the landfill (adjacent to MW-3). In accordance with assessment monitoring compliance activities, the additional buffer for the facility represents a primary corrective action to limit the potential for off-site contaminant migration. Improvement of surface slopes across Area 1 and cap installation as outlined in the plan are integral to achieving compliance with water quality requirements.

The following response to comments is provided according to each section of the plan and outlined according to the SWS Technical Review correspondence. Following SWS review and concurrence with this response, the pertinent issues will be incorporated in revisions to the plan.

SECTION 1.0 - INTRODUCTION

1. Compliance with 15A NCAC 13B Section .1600 (p. 1-2). After December 31, 1997, Wilson County intends to manage the municipal solid waste stream using private facilities. Wilson County has entered into a contract with VEDCO to process, transfer and dispose of municipal solid waste generated and collected in the County.
2. 2000-ft Perimeter Water Resources (p. 3, 9). As stated, public water supply is available to the residences located within a 2000-ft perimeter of the landfill. Based on the presence of well houses at residences, each residence is assumed to have an individual water supply well.

SECTION 2.0 - EXISTING CONDITIONS

- ✓ 1. Compliance Record Summary (p. 12-14). As discussed, a complete summary of pertinent compliance issues is provided on the referenced pages in Section 2.5 of the original submittal.
- ? 2. Explosive Gas Compliance (p. 14). As proposed, Wilson County has purchased the additional property for buffer adjacent to Area 1B where compliance with the explosive gas criteria has been observed to be a compliance issue. Incorporation of this property in the facility's permit according to the attached correspondence should effectively address this issue.

SECTION 3.0 - OPERATIONS PLAN

$$475 \frac{\text{t}}{\text{day}} \cdot 5 \text{ day} = 2375 \text{ t} \cdot \frac{2000 \text{ lb}}{1 \text{ t}} \cdot \frac{1 \text{ cy}}{1100 \text{ lb}} = 4318 \text{ cy}$$

- ! 1. Disposal Rate (p. 16). As provided in Section 3.1.2, the estimate for required operating capacity is based on a daily disposal rate of 475 tons/day, a compaction factor of 1100 lb/cy, and observed soil volumes. For a 5-day week, the compacted waste volume is estimated at 3958 cy. The compacted soil volume is calculated based on an observed use rate of 770 loose cy/day and a 30% correction for fluff (.75). The weekly soil volume is estimated at 2900 cy. Therefore, the total estimated operating capacity is the sum of the waste and soil volumes, equal to 6858 cy/wk. *2218*
2. Base Lift (p. 17). The base lift has already been constructed over portions of Area 1 and has improved surface drainage conditions significantly. Following completion of Area 2, the base lift shall be completed over all of Area 1 to establish a grade that promotes controlled surface run-off from the landfill area.

SECTION 3.2 - OPERATIONAL REQUIREMENTS

- ✓ 1. Waste Types (p. 20). A list of industries using the facility is not intended to be part of the plan. *Get rid of reference in text.*
2. Waste Screening Program (p. 20). The plan shall include a provision to notify the SWS within 24 hours of the attempted disposal of unauthorized waste. *Who conducts HW training?*
3. Animal Waste and Asbestos (p. 19). Animal waste shall be disposed of at the toe of the working face. No regular disposal of commercial animals is planned. As illustrated in the Facility Plan, asbestos waste is disposed of in a dedicated area between the gas line and the stream crossing the site (south of the access road). *Is it immediately covered?*
4. Daily Cover (p. 22). The following shall be substituted for the last sentence discussing operational cover requirements: The approved alternative daily cover will be routinely

used on the working face and at least 6 inches of daily cover soil shall be applied to completed portions of the active lift. The daily cover soil shall serve as a fire break.

- 6" of soil once a week for fire break?*
5. See 4.
 6. Alternative Daily Cover (p. 22). The alternative daily cover limits access to vectors and shall be adequately secured to contain wastes and limit scavenging.
 7. Disease Vector Control. (p. 22). Chemical control of vectors may be used if daily cover performance is not effective in controlling vectors.
 8. Explosive Gas Monitoring (p. 23). Illustrated on Drawing No. , permanent gas monitoring locations have been established for the facility. The temporary locations should be disregarded. The 25% LEL criteria is applicable to levels measured in the maintenance building. If compliance levels are exceeded in the building, the fire department shall notified to inspect the structure and the building should be adequately vented to prevent accumulation of explosive gases.
 9. Air Criteria (p. 24). The weighmaster shall be alert for smoke from disposal vehicles. If a "hot load" is detected, the vehicle shall be directed to a covered portion of the landfill for off-loading. The load shall be monitored and allowed to burn out prior to spreading the waste to cool. The fire department shall be notified to monitor/extinguish the fire.
Notification
 10. Access and Safety (p. 24). Inspection reports will reveal that the site includes all required signs and signs for traffic and disposal control at the individual waste management areas. Photographs are available for SWS review if required.
Fences → Always someone at the site
 11. Liquids Restriction (p. 25). A copy of the Paint Filter Test procedure shall be included as an appendix to the plan.
 12. Lift Construction. The sequence and requirements for operation are incorporated in the drawings for each operational area. The operators have all received the training required by law. *Blowing letter run-off and enclosed weather*

SECTION 4.0 - CLOSURE PLAN

1. Construction Requirements. This portion of the plan was written to establish the design goals for the facility. Complete specifications for construction of the cap system as part of the bidding and implementation phases of the project and will incorporate the most recent acceptable engineering requirements.
- No* 2. Closure Activities. The owner or operator shall begin closure activities of each MSWLF unit no later than 30 days after the date on which the MSWLF unit receives the known final receipt of wastes or, if the MSWLF unit has remaining capacity and there is a reasonable likelihood that the MSWLF unit will receive additional wastes, no later than one year after the most recent receipt of wastes. Extensions beyond the one-year deadline for beginning closure may be granted by the Division if the owner or operator

demonstrates that the MSWLF unit has the capacity to receive additional wastes and the owner or operator has taken and will continue to take all steps necessary to prevent threats to human health and the environment from the unclosed MSWLF unit. Closure Activities shall commence according to the regulations in effect at the time.

3. Vegetative Layer Thickness. The minimum vegetative layer thickness shall be 18" for the cap specification.
4. Closure Costs. The specifications outlined in the plan and incorporated in this response are consistent with the closure cost estimate.

Need to revise what about weeds? no comparison or best bid cost

SECTION 5.0 - POST-CLOSURE

1. Property end-use. Following installation of the cap system and dependent on site conditions, the proposed end-use of the property is a limited access project. A typical project is reclamation for wildlife habitat.
2. Inspection/Maintenance Schedule. Inspection requirements are described in the plan. *[what about scale]*
3. Maintenance Costs. The maintenance costs are estimates and should be sufficient.
4. Notification Requirement. Following completion of the post-closure care period for each MSWLF unit, the owner or operator shall notify the Division that a certification, signed by a registered professional engineer, verifying that post-closure care has been completed in accordance with the post-closure plan, has been placed in the operating record.

Should you have any questions regarding this response, please contact me by telephone or telex at (919) 542-5286.

Sincerely,



Gary W. Ahlberg, P.E.
Project Engineer

Gary W. Ahlberg, P.E.
Engineering & Consulting Services

1010 Saralyn Road
Pittsboro, North Carolina 27312

July 18, 1996

Mr. James C. Coffey
NC DEHNR Division of Solid Waste Management
Solid Waste Section
P.O. Box 27687
Raleigh, NC 27611-7687

RE: WILSON COUNTY MSWLF
REQUEST TO AMEND FACILITY BOUNDARY
EXPANDED BUFFER ZONE

Dear Mr. Coffey:

In order to expand the buffer zone between the MSWLF unit and the facility boundary, Wilson County is requesting that the 21.57 acre property described on the attached plat be included in the legal description of the permitted facility. This property is owned by the County and will provide an expanded physical separation from adjacent properties and is integral to compliance with 15A NCAC 13B. Currently, proposed activities in the buffer zone include well installations for groundwater and explosive gas monitoring, and limited grading.

We appreciate your assistance with this improvement to the facility. Should you have any questions or require further information, please contact me by telephone or telex at (919) 542-5286.

Sincerely,



Gary W. Ahlberg, P.E.
Project Engineer

cc: Steve Clayton
Mark Poindexter



PRELIMINARY PLAN
NOT FOR CONVEYANCE,
CONVEYANCE, OR SALE

PRINTED

FEB 20 1996

F. T. GREEN & ASSOCIATES, P.A.

WILSON COUNTY LANDFILL

PROPERTY OF

WILSON COUNTY

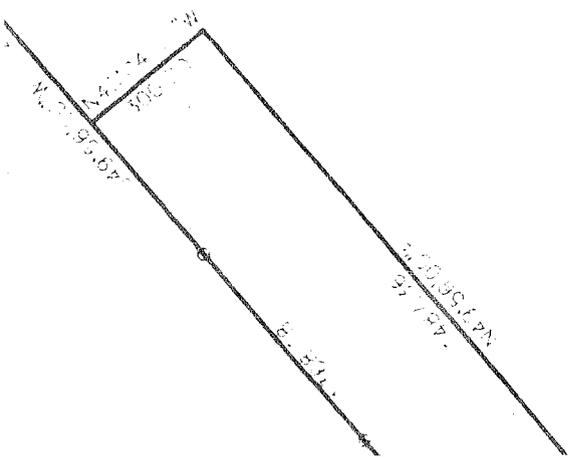
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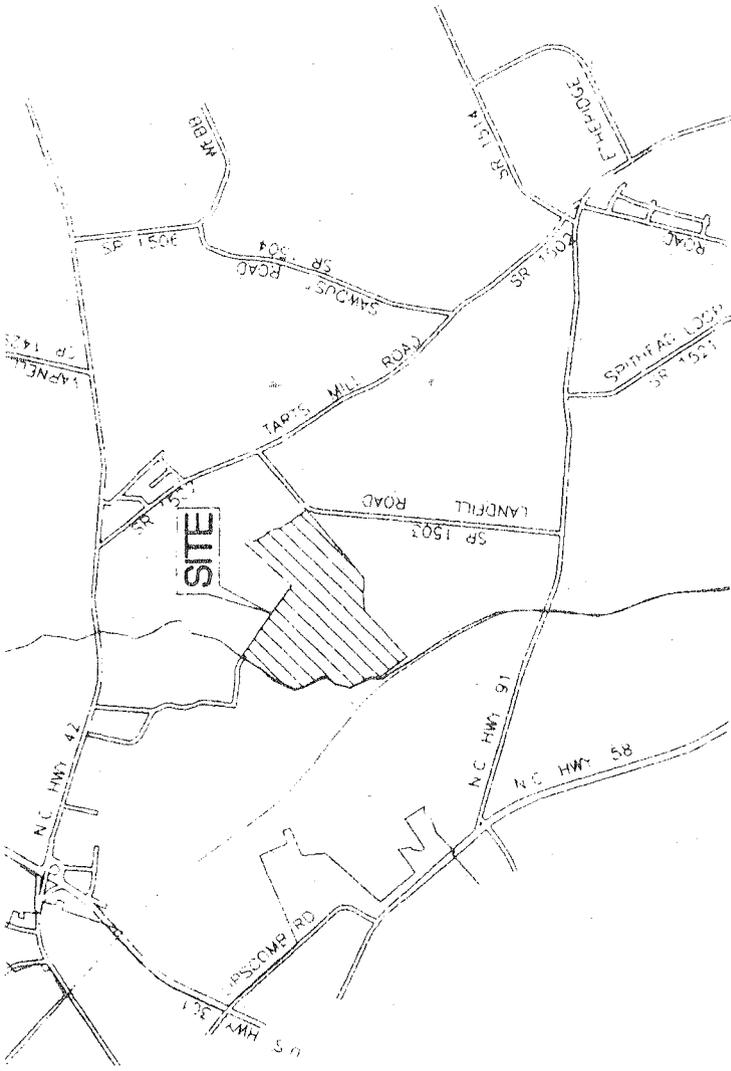
GARDNERS TOWNSHIP
JUNE, 1995

WILSON CO., NC
SCALE: 1" = 400'



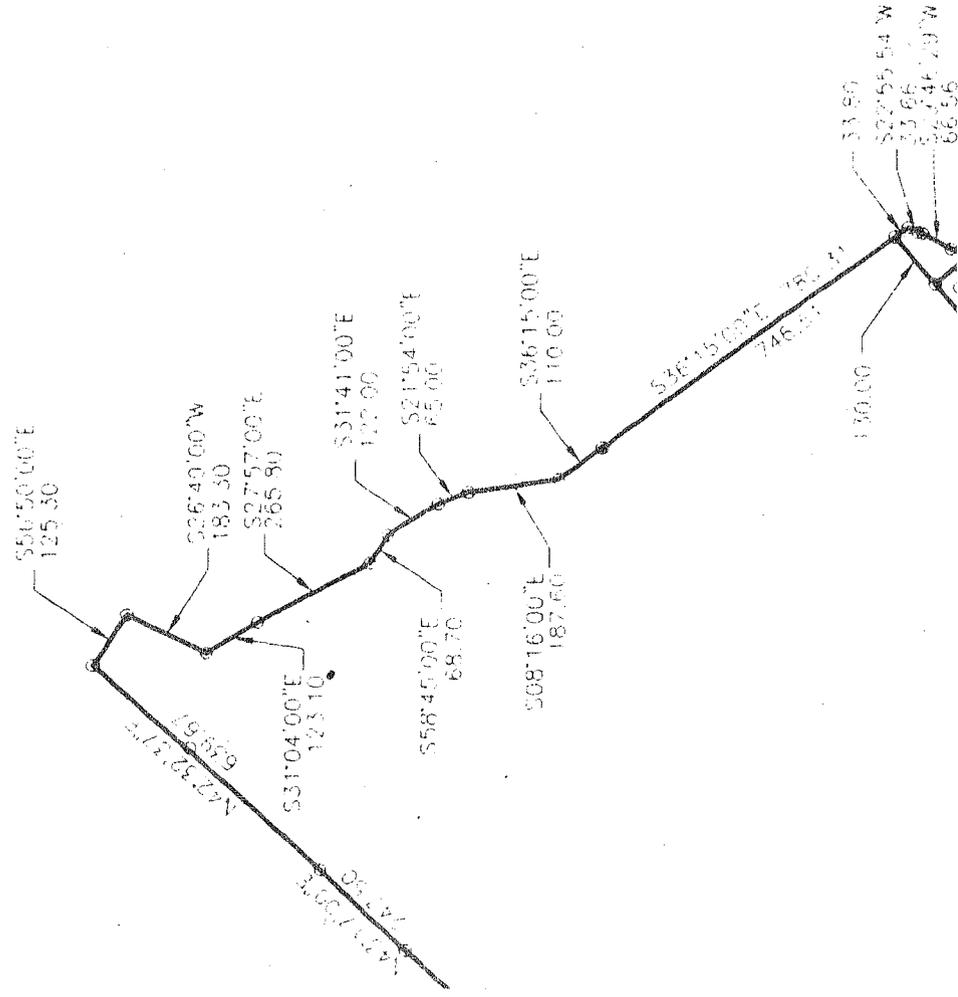
F.T. GREEN and ASSOCIATES, P.A.
CONSULTING ENGINEERS
WILSON, NORTH CAROLINA 27893

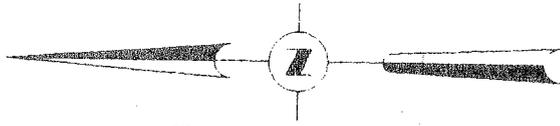




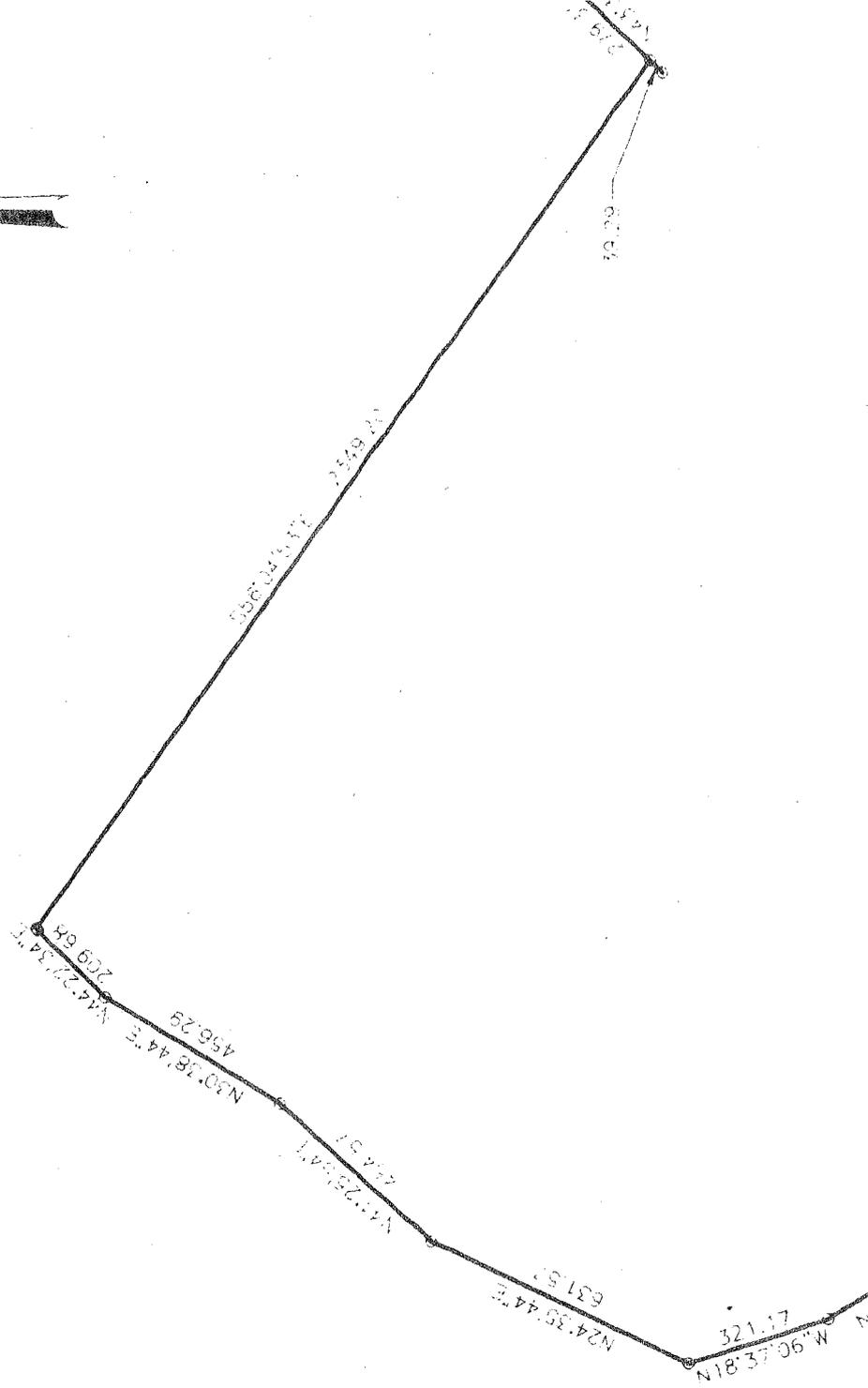
LOCATION MAP

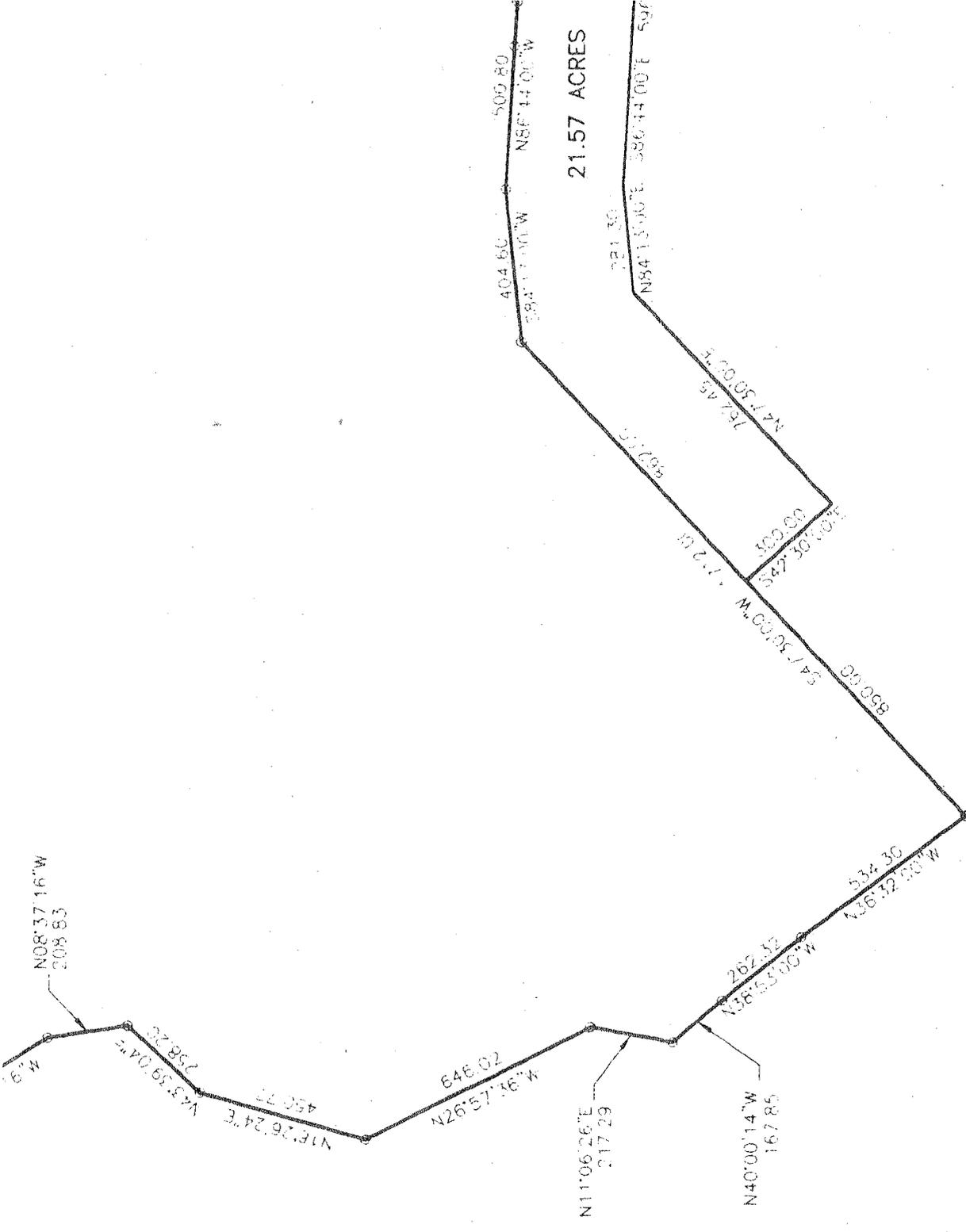
No Scale





NC GRID NORTH - NAD 1927
DISTANCE IN HORIZONTAL FEET





21.57 ACRES

LEGEND

- ⊗ POINT
- NEW IRON PIPE
- EXISTING IRON PIPE

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



June 28, 1996

Mr. G. Steven Clayton
Wilson County Solid Waste Management
P.O. Box 1728
Wilson, NC 27893

RE: Status of the Wilson County MSW Landfill Transition Plan, Permit No. 98-01

Dear Mr. Clayton:

Rule .1603(d)(2)(A) of the North Carolina Solid Management Rules directs that the Division will determine the adequacy of all Transition Plans by October 9, 1996. Furthermore, in accordance with Rule .1601(c)(4), MSW Landfill Units that have not demonstrated the adequacy of their plans by this date are constituted as "Open Dumps" and must be closed under both state and federal law.

As of this time, the Division has not been able to complete it's review of the above referenced Transition Plan. A response to the Division's review letters of May 15 and July 24, 1995 needs to be submitted in order to complete the review process.

Please submit all required information to the Division by September 1, 1996 in order for a timely review to be completed prior to the October 9, 1996 deadline. If you have any further questions, please contact Greg Eades at (919) 733-0692 extension 344.

Sincerely,

James C. Coffey, Supervisor
Permitting Branch
Solid Waste Section

cc: Ben Barnes, SWS
Bobby Lutfy, SWS

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



June 21, 1996

Mr. G. Steven Clayton
Wilson County Dept. of Solid Waste Management
P.O. Box 1728
Wilson, NC 27893

RE: Status of the Wilson County MSW Landfill, Permit No. 98-01

Dear Mr. Clayton:

In Section III - MSWLF Unit Capacity of the Transition Plan, Wilson County stated that they had a new permit in process. To this date, the Solid Waste Section (Section) has not received an application. If you still intend to build a lined landfill, sufficient time needs to be allotted for review and construction.

Please submit to the Section your County's intentions as to where your waste will be disposed of as of January 1, 1998. If you have any questions regarding this letter, please call Greg Eades at (919) 733-0692 extension 344.

Sincerely,

A handwritten signature in black ink that reads 'James C. Coffey'. The signature is written in a cursive, flowing style.

James C. Coffey, Supervisor
Permitting Branch
Solid Waste Section

cc: Ben Barnes, SWS