

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WASTE MANAGEMENT

**PERMIT TO OPERATE A SEPTAGE LAND  
APPLICATION SITE**

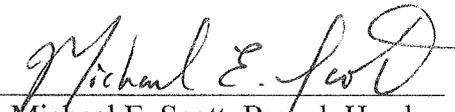
Dennis Hoyle Services  
Dennis H. Hoyle  
P.O. Box 84  
Vale, NC 28168

is hereby issued a permit to operate Septage Land Application Site with permit #SLAS-55-01 located on Breezewood Lane in Lincoln County in approximate position 35.5330° N latitude and -81.42381° W longitude. The site is to be operated in accordance with 15A NCAC 13B .0800 Septage Management, the information stated in the approved application, and the conditions of this permit. The unauthorized disposal of any liquid or solid wastes other than those specified in the conditions of this permit will be considered a violation of the conditions of this permit. Failure to comply with the conditions of this permit may result in permit suspension, permit revocation, action for injunctive relief, administrative penalties, or other remedies as provided in G.S. 130A, Article 1., Part 2.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in affect at the time of review.

Date Issued

3/31/11

  
\_\_\_\_\_  
Michael E. Scott, Branch Head  
Solid Waste Section

Operator: Dennis H. Hoyle  
SLAS# 55-01  
County: Lincoln

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**Permit Conditions:**

1. This permit shall become voidable if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of the surface waters and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Dennis Hoyle and approved by the Division. The site contains approximately 8.61 acres that is divided into Field 1 (6.33 acres) and Field 2 (2.28 acres). The mandatory 30-day waiting period between the last application of septage and the harvest or grazing of each crop shall be maintained by rotating between the two disposal fields and other pasture land available for the cattle. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan.
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by Dennis Hoyle and approved by the Division. Any site improvements noted in the plan must be installed within 30 days of plan approval. The site shall be operated and erosion and runoff control measures maintained in such a manner as to prevent migration of wastes off of the designated waste receiving site. The installation of groundwater monitoring wells may be required.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies (local, state and federal) which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the requirements of 40 CFR 503.
5. This permit may be modified or reissued to incorporate any conditions, limitations and monitoring requirements of the Division of Waste Management deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of domestic septage (including portable toilet waste) and grease septage.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application. Grease septage or grease septage mixed with domestic septage shall be raised to pH 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 2 hours prior to land application.
7. **This site contains approximately 8.61 acres that are available for septage land application.** The maximum annual application rate shall be 50,000 gallons per acre per year, for a total maximum annual application rate of 430,500 gallons. This application rate assumes equal septage distribution, on an annual basis, over the permitted area. Monthly septage applications shall not exceed the monthly relative application rates given in the approved nutrient management plan for the site.
8. An approved above ground septage detention system with a minimum design capacity of 8,278 gallons shall be available prior to operation of this site unless an approved wastewater treatment plant is available for use during periods of adverse weather. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.

Operator: Dennis H. Hoyle  
SLAS: 55-01  
County: Lincoln

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9. Only the area designated on the attached site map(s) shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner as to have no standing water when the discharge is complete. Septage shall not be applied during periods of high soil moisture.
10. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the Permittee shall discharge septage at this site without prior appropriate notification and written approval of the Division of Waste Management.
11. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure.
12. **This permit shall expire on March 2, 2016.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838(e)(1) of the NC Septage Management Rules and 40 CFR Part 503.17(b) of the Federal Register. This permit is non-transferable.
13. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division of Waste Management upon request.
14. Any duly authorized officer, employee, or representative of the Division of Waste Management may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
15. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site.
16. The areas which can be used for land application of septage shall be maintained at least 500 feet from any existing wells, residences, places of business, or places of public assembly. However, at the front of field 1, the setback from the well at the barn is only 250' in accordance with .0837(d)(15). Septage shall not be disposed of within 50 feet of any property line or within 100 feet of any ditch.



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Dexter R. Matthews

Director

Beverly Eaves Perdue  
Governor

Dee Freeman  
Secretary

March 31, 2011

Mr. Dennis Hoyle  
Dennis Hoyle Services  
P.O. Box 84  
Vale, NC 28168

**RE: SLAS permit renewal  
Dennis Hoyle Services  
SLAS-55-01  
Breezewood Lane in Lincoln County**

Dear Mr. Hoyle:

The NC Division of Waste Management has reviewed your application to renew a Septage Land Application Site permit in Lincoln County. Your application has been approved and your permit, # SLAS-55-01, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions.

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 12, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until March 2, 2016. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have prior approval from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

If you have any questions, please contact me at (910) 433-3352 or Michael Scott at (919) 508-8508.

Sincerely,

Connie Wylie, Soil Scientist  
Composting & Land Application Branch

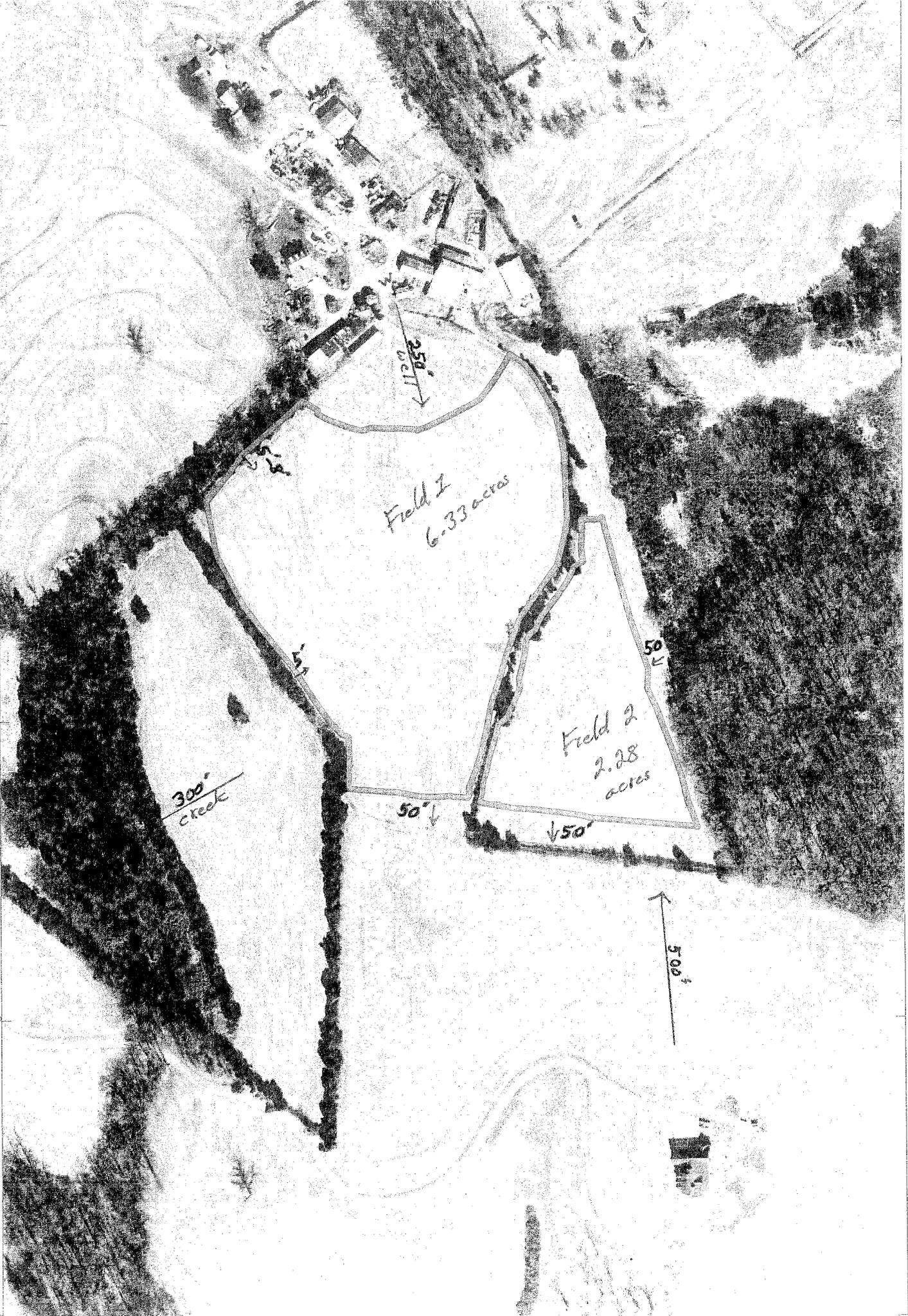
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# APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources  
Division of Waste Management – Solid Waste Section  
401 Oberlin Rd., Ste. 150, Raleigh, N.C. 27605

## I. Site and Operator Information

1. Applicant Dennis H. Hoyle  
Address P.O. Box 84  
Vale, N.C. 28168  
Phone 704-276-2080 cell 980-429-0438

2. Contact person for site operation (if different from applicant): \_\_\_\_\_  
Title or position \_\_\_\_\_ Phone \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_

3. Landowner Billy H. Hoyle  
Address 7337 Reeps Grove Ch. Rd.  
Vale, N.C. 28168

4. Site Location: County Lincoln State Road Number Breezewood Lane  
Directions to site: From Lincolnton Travel Reepsville Rd To Cat Square X Rds.  
Go Straight (Road change Name) Reeps Grove Ch. Rd app 1 mile Turn Left onto  
Breezewood Lane, Go To End.

5. Indicate whether request is: new \_\_\_\_\_ renewal  modification \_\_\_\_\_

For a permit renewal or modification, provide the following information:

Existing site permit number: 55-01 permit expiration date: March 2, 2011

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 8.61  
acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:  
(a) None , or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.

8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). *If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.*

9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report.

10. Attach a vicinity map (county road map showing site location).

(over)

II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan
2. Soil Erosion and Runoff Control Plan
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): STDF 55-01
4. Types of septage proposed to be discharged at the site (check all that apply):
  - (a) Domestic septage pumped from septic tanks
  - (b) Grease trap pumpings
  - (c) Portable toilet waste
  - (d) Commercial / Industrial septage
5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary):  
Lime Stabilization with Dehydrated Lime  
pH 12+ on septic For 30min Before Land app.  
pH 12+ on Grease dilited at least 1 to 1 For 2 hrs Before Land app.  
pH 12+ on Portable Toilet Waste dilited + treated with lime 30min before Land app.
6. Proposed method of applying septage to land, including septage distribution plan if required \* (use additional paper to explain if necessary): To be applied with septic Pumping Truck  
with Spreader Spoon att. to Truck valve.
7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law \*\* or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): Entire Area of site and  
surrounding areas are agricultural land use.

III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

Dennis H. Hoyle  
Signature\*\*\*

11-15-10  
Date

Dennis H. Hoyle  
Print name

OWNER  
Title

Note: This application will not be reviewed until all parts of the application are complete.

\* Refer to Section .0821(e) of the N.C. Septage Management Rules.

\*\* Refer to Section .0821(g) of the N.C. Septage Management Rules.

\*\*\*Signature of company official required.

# **NUTRIENT MANAGEMENT PLAN FOR SEPTAGE APPLICATIONS TO TALL FESCUE**

## **A. General Information:**

- 1. Periodic sampling (at least 1 /year) of the septage will be conducted for waste analysis.**
- 2. Field 1 contains approximately 6.33 acres and field 2 contains approximately 2.28 acres. The attached copy of the aerial photograph for the site shows field boundaries and identifications.**
- 3. The dominant soil series on the site is CeB2 – Cecil sandy clay loam.**
- 4. Septage will not be applied where the site is untrafficable (untrafficable is defined as soil that will allow a loaded truck to leave a depression in sod greater than 3 inches in depth).**
- 5. All nitrogen recommendations for forages will be 75% of the realistic yield expectation nitrogen rate should the forage be grazed.**
- 6. Septage storage shall be provided to account for the average volume of septage pumped per week, or an alternative plan, such as disposal at a Waste treatment plant, should be in place.**

## **B. Crops to be grown and approximate planting times:**

- 1. Field 1 and 2 including buffer zones, have been seeded in tall fescue at a Rate of 25 lbs./acre with no-till drill in September 2009 in order to Establish a permanent stand. To promote stand establishment the Following steps will be taken the first year (weed control, reduced number of harvest and reduced vehicular traffic).**

**Areas that develop with less than 80% ground cover by fescue will be Re-seeded with fescue at a rate of 25 lbs./ac. no-tilled in September.**

- 2. Field 1 will be treated the same as Field 2.**

C. Nitrogen needs for crops grown:

**RYE = Realistic Yield Expectations**

**N App. Rate + Suggested N application rate based on RYE for soil type.**

<u>Crop (hay)</u>	<u>RYE</u>	<u>N App. Rate</u>	<u>lbs. N/acre</u>
Tall fescue	3.5 tons/acre x	40 lbs N/dry ton	= 140

<u>Crop (grazed)</u>	<u>RYE</u>	<u>N App. Rate</u>	<u>Reduction Factor</u>	<u>lbs N/acre</u>
Tall fescue	3.5 tons/acre x	40 lbs H/dry ton	0.75 =	105

D. Relative application rates for fields 1 and 2:

<u>Month</u>	<u>Field 1</u>	<u>Field 2</u>
January	Low	Low
February	Medium	Medium
March	High	High
April	High	High
May	Medium	Medium
June	Low	Low
July	Low	Low
August	Low	Low
September	Medium	Medium
October	Medium	Medium
November	Medium	Medium
December	Low	Low

None = 0 gallons; Low = 5,000 gallons

Medium = 10,000 gallons; High = 15,000 gallons

Note: Cumulative application rate is not to exceed the permitted application rate. Annual application rate is not to exceed 50,000 gallons per acre.

E. Application Method

The preceding information is based on septage being evenly applied over the entire permitted site by broadcasting.

## F. Additional Fertility Requirements

Phosphorus and potassium will be added in accordance with the soil test results for the crops grown. **NOTE:** The phosphorus requirement can be reduced by taking into consideration the phosphorus from the septage analysis, if an analysis is available.

Approximately 600 lbs/ac of 10-10-10 N-P-K fertilizer will need to be added to the land application area in September to maintain fertility levels.

The buffer areas will be fertilized with 600 lbs./ac 10-10-10 N-P-K fertilizer to maintain production based on soil test results.

## G. Harvest of the crops and their use:

1. Field 1 will be cut as hay and baled whenever it reaches approximately 12 inches in height or just before seedhead emergence. This will usually take place in late May and again in September or October. At least two fescue harvests will be made each year. This field will be converted to pasture once vegetation has a vigorous stand.
2. A 30-day waiting period must be observed between the last application of septage and harvest or grazing. Septage application will rotate between field 1 and 2.
3. The hay will be sold to a local farmer to feed his beef cows and or fed to cattle on the farm.
4. The fields could be grazed if a three-field rotation is established. Other areas are available for the cattle. Field 2 will be grazed.

<u>Month</u>	<u>Field 1</u>	<u>Field 2</u>
January	Graze/cut	Wait
February	Apply	Graze/cut
March	Wait	Apply
April	Graze/cut	Wait
May	Apply	Graze/cut
June	Wait	Apply
July	Graze/cut	<del>Apply</del> wait
August	Apply	Graze/cut
September	Wait	Apply
October	Graze/cut	Wait
November	Apply	Graze/cut
December	Wait	Apply

## Soil Erosion and Runoff Control Plan

Given that slopes on this site do not exceed 8 percent, a 50 foot buffer, currently established in fescue and woodland, should suffice to prevent septage waste from migrating off of the fields. (More severe site conditions could require that soil erosion structures be installed before septage can be applied).

Submitted by: Dennis A. Hoyle Date: 12-20-10  
Site Operator

Plan Prepared by: Rick H. McSwain Date: 11-17-10

Address: Lincoln Soil and Water Conservation District  
115 West Main Street  
Lincolnton N.C. 28092