



Environmental
Quality

Facility Permit No: SLAS-07-06
Hunter's Roost Farm Septic Service
Permit to Operate
April 11, 2016
Page 1 of 4

North Carolina Department of Environmental Quality

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

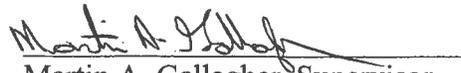
PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

Hunter's Roost Farm Septic Service
Scott Williamson
Harvey Williamson
1774 Wharton Station Road
Washington, NC 27889

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-07-06** located on US Hwy 17 in Beaufort County at approximate position 35.64119° N latitude and -77.07767° E longitude. This site is permitted only for operations that are conducted in accordance with the representations made in the approved application, with all conditions attached to this permit, and with all of the provisions of 15A NCAC 13B.0800 -- Septage Management. Failure to operate as permitted may result in the Department suspending or revoking this permit, initiating action to enjoin the unpermitted operation, imposing administrative penalties, or invoking any other remedy as provided in Chapter 130A, Article 1, Part 2 of the North Carolina General Statutes.

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 effect at the time of review.

Date Issued 4/11/2016


Martin A. Gallagher, Supervisor
Composting & Land Application Branch,
Solid Waste Section
Division of Waste Management, NCDEQ

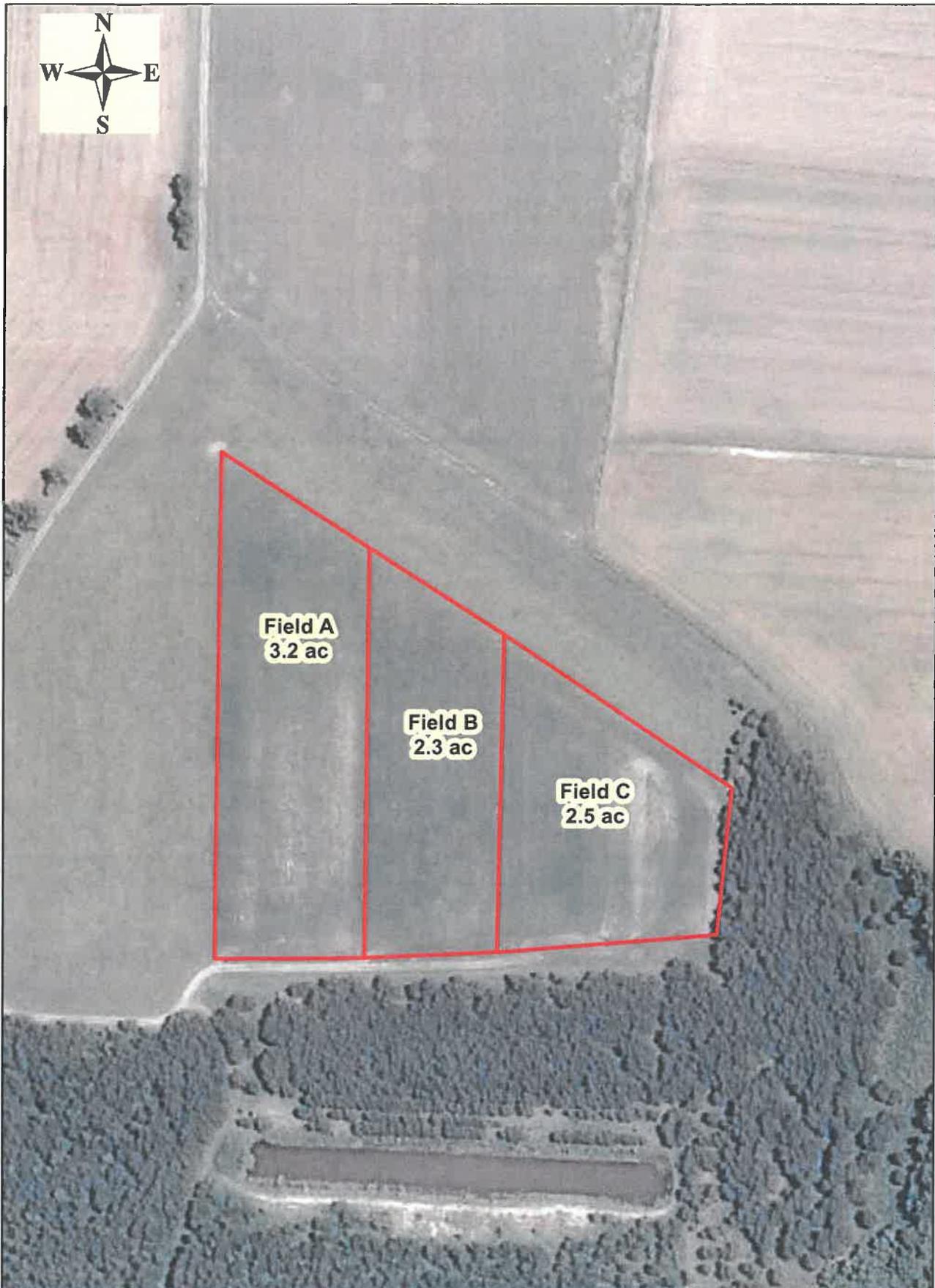
CONDITIONS OF OPERATING PERMIT

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Scott Williamson and approved by the Division of Waste Management. The 8-acre site is divided into three sections as Field A (3.2 acres), Field B (2.3 acres), and Field C (2.5 acres). The site has been established in common bermudagrass and shall be overseeded with ryegrass between September 1 and October 31 of each year. Rye may be substituted for the ryegrass. Areas where the bermudagrass stand falls below 80% in coverage shall be resprigged. The crops shall be harvested by grazing or cutting for hay. The 30-day waiting period between the last application of septage and the harvest of a crop shall be met by rotating septage applications between the three fields. 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 Scott Williamson in such a manner as to prevent the migration of wastes off of the designated waste receiving site. A buffer of at least 50 feet of bermudagrass overseeded with ryegrass shall remain established around the perimeter of the site. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations, and/or monitoring requirements the Division 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.** The pH of domestic septage 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. The pH of grease septage or grease septage mixed with domestic septage shall be raised to 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. Grease septage shall be diluted as required by 15A NCAC 13B .0838(a)(15) when applied over perennial vegetation.
7. **This site contains approximately 8 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gal/ac/yr for a total maximum annual application volume of 400,000 gallons for the entire site. Application amounts to each disposal field shall not exceed the maximum annual application rate or the monthly application rates listed in the approved nutrient management plan. The maximum annual application rate assumes equal septage distribution, on an annual basis, over the entire permitted area.
8. An approved septage detention facility with a minimum design capacity of 8,000 gallons shall be available prior to operation of this site as per 15A NCAC 13B .0841(a). The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inadequate.
9. Only the area designated on the attached site map 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 that there is no standing water when the discharge is complete.
10. Septage shall not be applied during any precipitation event, or if there is standing water on the soil surface, if the soil surface is frozen, or if the soil surface is snow covered. The Permittee shall consider pending weather conditions when making the decision to land apply in order to prevent any discharge of septage outside of the permitted boundary.
11. Septage shall not be applied during periods of high soil moisture. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.

13. 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 or an employee of the firm named in this permit shall discharge septage at this site without prior appropriate notification and written approval from the Division.
14. 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. This permit is non-transferable.
15. **This permit shall expire on April 11, 2021.** An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. When necessary, an application for permit modification shall be submitted for any proposed change listed in 15A NCAC 13B .0835(h). Along with the application for permit renewal or modification, the prescribed information listed in 15A NCAC 13B .0835(c) through (i) and the septage application records for the period of time this permit was valid shall be submitted.
16. Records shall be kept in accordance with 15A NCAC 13B .0838(e)(1) and the Code of Federal Regulations, 40 CFR Part 503.17(b) to document all septage applications to the site. These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division 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.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas that can be used for land application of septage shall be maintained to meet the minimum setback distances as described in 15A NCAC 13B .0837(d) such as 500 feet from any existing wells, residences, places of business, or places of public assembly. Also, septage shall not be disposed of within 50 feet of any property line, within 100 feet of any ditch, or within 200 feet of any surface water unless specified otherwise.

SLAS-07-06



Source: 2010 NAIP Color Imagery, NCDA; site boundary, NC DENR Division of Waste Management.
Map create by NC DEQ Division of Waste Managemen for permitting purposes only.

1 in = 200 ft

crc, March 2016



PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

MICHAEL SCOTT
Acting Director

April 18, 2016

Mr. Scott Williamson and Mr. Harvey Williamson
Hunter's Roost Farm Septic Service
1774 Wharton Station Road
Washington, NC 27889

**RE: SLAS-07-06 Permit Renewal
Hunter's Roost Farm Septic Service
Hwy 17 in Beaufort County**

Dear Sirs:

The NC Division of Waste Management has reviewed your application to renew the operation of Septage Land Application Site, **Permit # SLAS-07-06**, in Beaufort County. Your application has been approved in accordance with NC Septage Management Rules and your permit, **SLAS-07-06**, is enclosed.

Please read all permit conditions carefully. Your nutrient management and soil erosion and runoff control plans you submitted have been included in your permit's conditions. This permit shall expire on **April 11, 2021**. An application for permit renewal and your septage application logs should be submitted at least ninety (90) days prior to the expiration of your permit.

Please remember that violations to the NC Septage Management Rules or this permit could subject you to administrative penalties of up to \$15,000 per violation per day. If you have any questions concerning this permit or septage in general, please do not hesitate to contact me at (919) 707-8283. When communicating to the Division about this permit, please refer to it as "**SLAS-07-06**."

Sincerely,

Chester R. Cobb, Soil Scientist
Division of Waste Management, NCDEQ

Enclosures

cc: Central Files
Beaufort County Health Department

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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
1646 Mail Service Center, Raleigh, NC 27699-1646

I. Site and Operator Information

1. Applicant Scott Williamson
Address 1774 Wharton Station Road
Washington N.C. 27889
Phone (252) 944-7737

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

3. Landowner Scott & Harvey Williamson
Address 1774 Wharton Station Road
Washington N.C. 27889

4. Site Location: County Beaufort State Road Number Hwy 17
Directions to site: leave Washington go North about 8 miles 1st lane on left when they goes to 2 lane road

5. Indicate whether request is: new renewal [checked] modification

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

Existing site permit number: NCS 00826 S1A5 07-06 permit expiration date: 6/8/15

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 8 acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:
(a) None [checked], 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): Greenville waste water treatment plant
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): bringing ph to 12 for 30 minutes for domestic septage and grease septage to a ph of 12 for 2 hours
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): blowing septage out the back of truck with a spoon evenly spreading and with no puddling
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): agricultural land

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.

<u>Scott Williamson</u>	<u>3-7-15</u>
Signature***	Date
<u>Scott Williamson Williamson</u>	<u>owner</u>
Print name	Title

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

* Refer to Section .0837(e) of the N.C. Septage Management Rules.

** Refer to Section .0837(g) of the N.C. Septage Management Rules.

***Signature of company official required.



Septage Land Application Site – SLAS-07-06

Nutrient Management Plan
Harvey and Scott Williamson
Beaufort County, NC

A. General Information:

1. The site is located approximately 8 miles north of Washington, NC just off US Hwy 17. The farm is identified by the USDA Farm Service Agency as Farm Number 7312, tract T 378, and Field # 4. This tract contains 18 acres.
2. The site contains 8 acres of land that is suitable for septage applications. The 8 acre site is established in bermudagrass and divided by fences into 3 fields to allow for grazing. Field A contains 3.2 acres, Field B contains 2.3 acres, and Field C contains 2.5 acres.
3. The dominant soil series on the site is Craven.
4. Septage will not be applied when the site is untrafficable. Untrafficable defines the soil condition when a loaded truck will leave a depression in the sod greater than 3 inches in depth.
5. All nitrogen recommendations for forages will be 75% of the realistic yield expectations rate should the forage be only grazed.
6. Domestic septage shall be raised to a pH of 12 or higher by adding hydrated lime and, without the addition of more lime, 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 a pH of 12 or higher by adding hydrated lime and, without the addition of more lime, shall remain at 12 or higher for 2 hours prior to land application.
7. An approved above ground septage detention facility with a minimum storage capacity of 8,000 gallons shall be available for use during periods of adverse weather.

B. Crops to be Grown and Approximate Planting Time:

1. All three fields have been established in common bermudagrass. Areas where the stand fall below 80% in coverage shall be resprigged in March or April at 30 to 40 bu/ac. Or, those areas could be reseeded at 5 to 7 lbs/ac (drilled) or 6 to 8 lbs/ac (broadcasted) within April or May. Planting depth for seeds is around ¼ inch.

2. Each year in the fall the fields will be overseeded in annual ryegrass or rye between September 1 and October 31. Ryegrass should be planted at 30 to 40 lbs/ac (broadcast) or 20 to 30 lbs/ac (drilled). The rye should be planted at 120 lbs/ac (broadcast) or 100 lbs/ac (drilled).
3. Weeds will be controlled by mowing or through herbicide use.

C. Nitrogen Needs for Crops Grown:

RYE = Realistic Yield Expectations

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

Crop (hay)	RYE	N App. Rate	lbs N/acre
Common bermudagrass	4.0 tons/acre x	42 lbs N/dry ton =	168
Annual ryegrass	1.5 tons/acre x	40 lbs N/dry ton =	50
		Total =	218

If the crop is grazed, the suggested total N application rate will be 164 lbs N/ac. This reflects a 25% reduction in nitrogen application. As a rule of thumb, septage supplies approximately 2.6 lbs N/1,000 gallons. The site is currently permitted for a maximum annual application rate of 50,000 gal/ac/yr.

D. Monthly Application Rates (gal/ac) for Fields A, B, and C:

Month	Field A	Field B	Field C
January	5,000	5,000	5,000
February	5,000	5,000	5,000
March	10,000	10,000	10,000
April	15,000	15,000	15,000
May	10,000	10,000	10,000
June	15,000	15,000	15,000
July	15,000	15,000	15,000
August	10,000	10,000	10,000
September	10,000	10,000	10,000
October	5,000	5,000	5,000
November	5,000	5,000	5,000
December	5,000	5,000	5,000

NOTE: Cumulative application rate is not to exceed the permitted application rate. Annual application rate is not to exceed 50,000 gallons per acre. For grazing or hay production, there is a 30-day waiting period between the last septage application and when the crop can be harvested.

For a complete grazing situation, a three field rotation would be needed. The rotation would follow such that Field A is grazed while Field B is undisturbed and Field C receives septage. After 30 days, Field B will be grazed while Field C is undisturbed and Field A receives septage. For the third phase of the rotation, Field C is grazed while Field A is undisturbed and Field B receives septage. The following table shows the rotation pattern and application rates for a bermudagrass overseeded with ryegrass cropping system.

Month	Field A	Field B	Field C
January	Graze	Wait	5,000
February	5,000	Graze	Wait
March	Wait	10,000	Graze
April	Graze	Wait	15,000
May	10,000	Graze	Wait
June	Wait	15,000	Graze
July	Graze	Wait	15,000
August	10,000	Graze	Wait
September	Wait	10,000	Graze
October	Graze	Wait	5,000
November	5,000	Graze	Wait
December	Wait	5,000	Graze

E. Application Method:

The proceeding information is based on septage being evenly applied over the entire permitted site by liquid spread trucks.

F. Additional Fertility Requirements:

Each year in the fall, soil tests will be performed to determine the amount of commercial fertilizer needed. Supplemental nitrogen will be applied to the fields on an as needed basis at rates that do not exceed crop requirements. Nutrient recommendation as outlined on the annual soil reports will be followed for other nutrient requirements such as phosphorus and potassium.

The buffer areas will be fertilized in accordance with the recommendations by soil test reports and the realistic yield expectation.

G. Harvest of the Crops and Their Use:

Giving that the site is divided into three fields, the bermudagrass with ryegrass overseeding in the fall can be grazed as demonstrated in Section D or cut for hay. No matter whether the grass is harvested by grazing or hay production the 30-day waiting period between the last septage application and harvest will be observed.

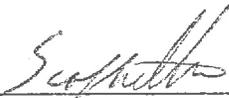
When harvesting the grass for hay, the following guidelines would apply. The bermudagrass will be cut as hay and baled whenever it reaches approximately 12 inches in height, or roughly every 4 to 6 weeks beginning in June. Two or three bermudagrass harvests should be taken from each field each year. The ryegrass should be cut as hay and baled sometime between March and April of each year. The ryegrass may have to be cut more than once.

The hay will be fed to cattle.

H. Soil Erosion and Runoff Control Plan

Given that the slopes on this site do not exceed five percent, a 50 foot buffer, planted in bermudagrass and ryegrass, 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:



Site Operator



Date:

3-8-12

3-7-15

SEPTAGE LAND APPLICATION LOG

COVER SHEET

Site Operator: Scott Williamson
SLAS Permit #: 07-06
Site Location: 6739 Hwy 17 North N35.64119 E 77.07767
(street address for the site or latitude and longitude)
Number of acres permitted: 8
Permitted application rate: 50,000
(gallons septage per acre per year)
Crop(s): bermuda and overseed of ryegrass in fall
Crop nitrogen requirement(s): 164
(pounds nitrogen per acre)

CERTIFICATION:

"I certify, under penalty of law, that the pathogen requirements in (insert either 503.32 (c)(1) or 503.32 (c)(2)) and the vector attraction reduction requirements in (insert 503.33 (b)(9), 503.33 (b)(10) or 503.33 (b)(12)) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen requirements and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."

Scott Williamson
(signature)

3-6-15
(date)