



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

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

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

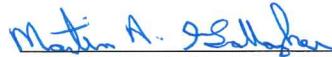
S & S Septic Tank Pumping
Stephen Stancil
PO Box 892
Tabor City, NC 28463

is hereby permitted to operate Septage Land and Application Site with permit # **SLAS-24-04** located on Hwy 904 in Columbus County at approximate position 34.08530°N latitude and -78.74926°W 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

1/4/2013



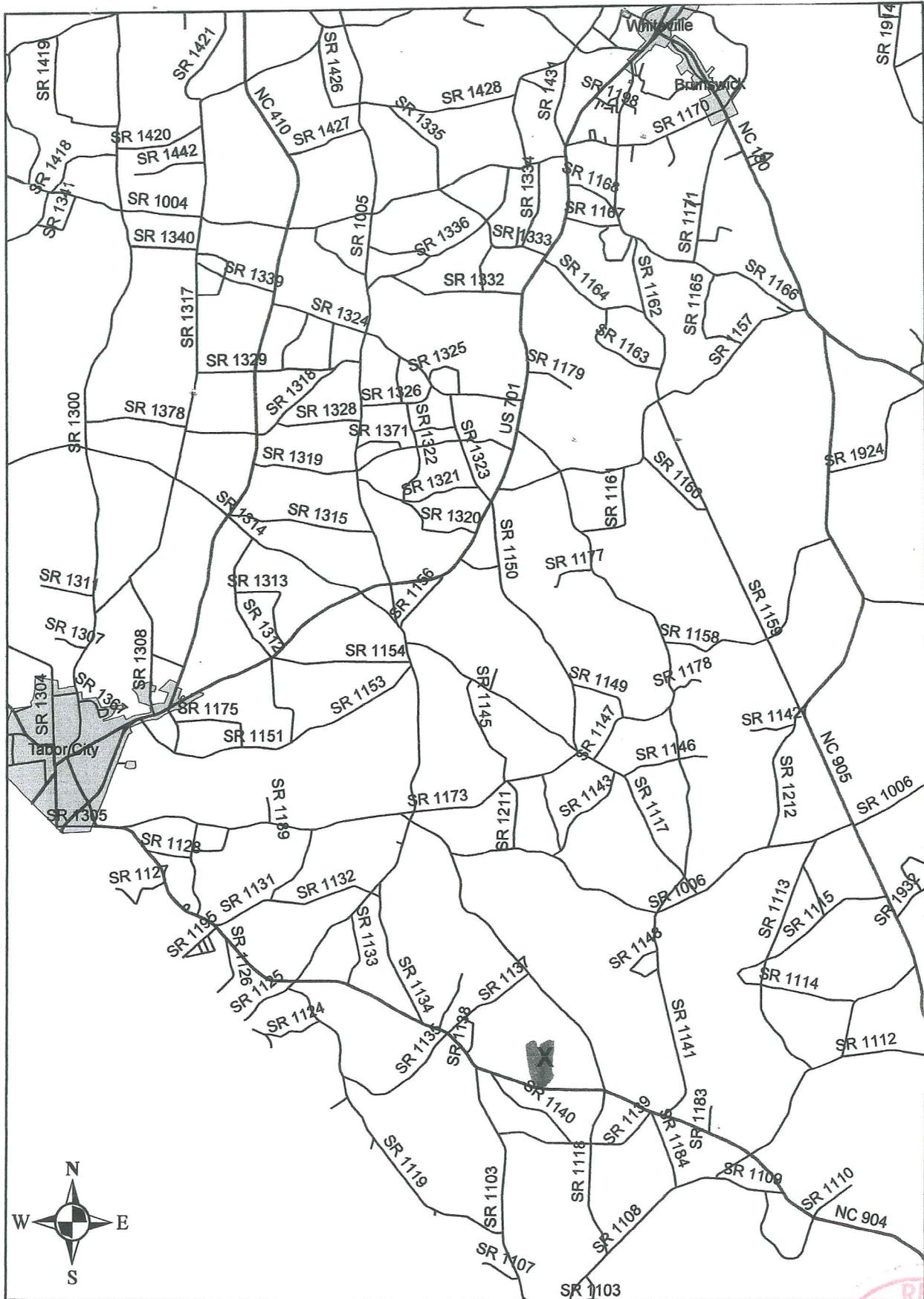
Martin A. Gallagher, Branch Head
Composting & Land Application Branch

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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Stephen Stancil and approved by the Division of Waste Management. The 15.6-acre site shall be divided into two fields known as Field 1 (6.8 acres) and Field 2 (8.8 acres). Both fields shall remain established in bermudagrass. Areas where the bermudagrass stand drops below 90% coverage shall be planted in bermudagrass at a seeding rate of 10 lbs/ac in June. Field 2 shall be overseeded with annual ryegrass at a rate of 20-30 lbs/ac in mid-September or at the last bermudagrass harvest of the year. The bermudagrass shall be harvested as hay from Fields 1 and 2 whenever it reaches approximately 12 inches in height, or roughly every 4 to 6 weeks beginning in June of each year. At least three bermudagrass harvests shall be made each year from each field. The ryegrass on Field 2 shall be cut as hay and baled in April of each year. The 30-day waiting period shall be met by alternating septage applications between the two 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 Stephen Stancil in such a manner as to prevent the migration of wastes off of the designated waste receiving site. A 25-ft buffer planted in bermudagrass, ryegrass, and pine trees shall remain around the perimeter of each field. 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 and grease trap pumpings.** 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 15.6 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year, for a total, maximum annual application of 780,000 gallons. This application rate assumes equal septage distribution, on an annual basis, over the entire permitted area. Application amounts to the fields shall not exceed the maximum annual application rate or the monthly rates as listed in the approved nutrient management plan.
8. An approved above ground septage detention system with a minimum design capacity of 15,000 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.
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 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 December 31, 2017.** 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 the Code of Federal Regulations, 40 CFR Part 503.17 (b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). 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 at least 500 feet from any existing wells, residences, places of business, or places of public assembly. Septage shall not be disposed of within 50 feet of any property line or within 100 feet of any ditch.



SLAS-24-04

* Located off of Hwy 904 at 34.0853° N and -78.7493° W.
CRC 4-8-10



SLAS-24-04



Source: Bing Maps aerial imagery, ESRI, (c) 2010 Microsoft Corporation and its data suppliers; site boundary, NC DENR Division of Waste Management.

Map created by NC DENR Division of Waste Management, Compost and Land Application Branch for permitting purposes only.

crc, Dec. 2012



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

January 4, 2013

Mr. Stephen Stancil
S & S Septic Tank Pumping
PO Box 892
Tabor City, NC 28463

**RE: SLAS-24-04 Permit Renewal
S & S Septic Tank Pumping
Hwy 904 in Columbus County**

Dear Mr. Stancil:

The NC Division of Waste Management has reviewed your application for renewal of septage land application site permit, **SLAS-24-04**, in Columbus County. Your application has been approved in accordance with NC Septage Management Rules and your permit, **SLAS-24-04**, is enclosed. Please read all permit conditions carefully. The nutrient management and soil erosion and runoff control plans you submitted have been incorporated into your permit. In particular, pay close attention to **Permit Conditions 2, 6, 7, 10, 11, 12, and 15**. The following is a summation of those Conditions.

- **Condition 2.** This condition incorporates the sizes of the two fields and crop management details listed in the submitted nutrient management plan.
- **Condition 6.** States that this site is only permitted to receive domestic septage and grease trap pumpings. Disposal of any other type of waste at this site is prohibited.
- **Condition 7.** States that there are approximately 15.6 acres available at this site for the land application of septage. **The maximum annual application rate for this site is 50,000 gallons per acre per year for a total, maximum annual application of 780,000 gallons.** These rates along with the monthly rates listed in the nutrient management plan are not to be exceeded.
- **Condition 10.** Septage shall only be applied when soil and weather conditions are favorable for application.
- **Condition 11.** Soil conditions must be monitored such that any septage application will not result in ruts greater than three inches in the soil surface.
- **Condition 12.** Any discharge, including aerial drift, of septage outside of the permitted boundaries is prohibited.

CONTINUE ON BACK

- **Condition 15. This permit is set to expire on December 31, 2017.** Ninety (90) days prior to the expiration of your permit, you must submit an application for permit renewal along with your septage land application logs for the entire time your current permit was valid.

Again, please pay close attention to all of the conditions within the enclosed permit. 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 your permits 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-24-04**"

Sincerely,



Chester R. Cobb, Soil Scientist
Composting & Land Application Branch

Enclosures

cc: Central Office
Columbus 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

Address

Phone

S&S Septic Tank Pumping

Po Box 892 / 388 Stencilway Dr

Tabor City, NC 28463

910-642-6277

2. Contact person for site operation (if different from applicant):

Title or position

Phone

Address

3. Landowner

Address

same as above

4. Site Location:

County Columbus

State Road Number Hwy 904

Directions to site:

Hwy 701 S to SR 1005 South (Peacock Rd) to Hwy 904 E (Swamp Fox Hwy E) - approx 3.5 miles turn left (Stencilway Dr)

GPS coordinates 34.0853° N and -78.7493° W

5. Indicate whether request is: new

renewal

modification

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

Existing site permit number: SLAS24-04

permit expiration date: 4/12

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 15.6 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): SDTF 24-04
4. Types of septage proposed to be discharged at the site (check all that apply):
 - (a) Domestic septage pumped from septic tanks X
 - (b) Grease trap pumpings X
 - (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 to pH of 12
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): septage is pumped into storage units and gravity/vacuum removed to land apply by reverse vacuum method from pump truck across field area
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): trees are there buffer is there cover crop maintained ... everything is as it should be per the quarterly inspections.

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.

[Signature]
Signature***

12/1/12
Date

Stephen Stancil
Print name

owner/operator
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.

Addendum to

“Application for a Permit to Operate a Septage Land Application Site” for permit renewal of SLAS-24-04

Question II. 5.

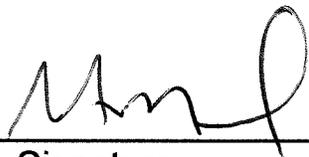
Hydrated lime will be added to domestic septage to raise it to a pH of 12 or higher for 30 minutes prior to land application. For any septage containing a mixture of grease trap pumpings, the septage will be raised to a pH of 12 or higher for 2 hours prior to land application. Septage to be at a pH of 12 or higher when applied.

Question II. 6.

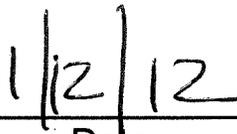
Septage will be land applied by pump truck evenly across the field as to leave no ponding or surface disturbance.

Question II. 7.

Site is agriculture land.



Signature



Date

Nutrient Management Plan

S&S Septics
Stephen Stancil
SLAS 2404



A. GENERAL INFORMATION

1. Periodic sampling (at least 1 time/year) of the septage will be conducted for waste analysis. These samples will be used to monitor nutrient loading.
2. Field #1 contains approximately 16.4 acres. Field #2 contains approximately 27.5 acres. Field #1 will have 7 acres of bermuda grass. Field #2 will have 9 acres of bermuda grass.
3. The dominant soil series for field #1 Wagram. Field #2 is predominately Goldsboro, with a small amount of Norfolk. The slopes on this site are less than 2%.
4. Septage will not be applied when the site is untrafficable. This can be defined and measured as a loaded truck will not leave a depression greater than 3 inches in depth.
5. All nitrogen recommendations will be based on the realistic yield expectations for the site.
6. Septage storage will be provided to account for the average volume septage pumped/week, or an alternative plan, such as disposal at a waste treatment plant, will be in place.

B. CROPS TO BE GROWN AND APPROXIMATE PLANTING AND HARVESTING TIMES: (AERIAL PHOTOGRAPHS MUST BE ATTACHED INDICATING PROPOSED FIELD DIVISIONS)

1. Field #1 is established in bermuda grass, in areas with less than 90% coverage of bermuda. Area's field will be overseeded with bermuda grass. The bermuda will be planted in June from seed in order to preserve the existing bermuda in the field at a seeding rate of 10lbs/acrea in the bare areas and overseeded in the areas where the existing stand is poor.

2. Field #2 is established in bermuda grass, in areas with less than 90% coverage of bermuda. The bermuda field will be overseeded with annual ryegrass at the rates of 20-30lbs/acre in mid September or at the last harvest. The seeded area is to include the buffer zones as well. The buffer zones can be fertilized with commercial fertilizer in order to retain a healthy stand.

C. NITROGEN NEEDS FOR CROPS GROWN:

R. Y.E. = Realistic Yield Expectations
 N. App. Rate = Suggested N application rate based on R. Y.E. for soil type

<u>Field</u>	<u>Crop</u>	<u>Soil Type</u>	<u>R.Y.E.</u>	<u>Nitrogen/Unit</u>	<u>Total</u>
1	bermuda	Wagram	5 ton	50	250
2	bermuda	Goldsboro	5	50	250
2	ryegrass	Goldsboro	1	50	50

D. Relative application rate for Field #1 and #2

<u>Month</u>	<u>Field</u> #1(Bermuda)	<u>Field</u> #2(Ryegrass & Bermuda)
January	-	low
February	-	low
March	low	medium
April	medium	medium
May	high	medium
June	high	medium
July	high	medium
August	medium	medium
September	medium	medium
October	low	low
November	-	low
December	-	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.

E. APPLICATION METHOD

The preceding information is based on septage being evenly applied over the permitted site by broadcasting, using a shovel spreader, from the 3500 gallon tank on the pumper truck.

F. ADDITIONAL FERTILITY REQUIREMENTS

Additional potassium may need to be applied in all fields according the soil test results.

The buffer areas around the field will be fertilized and limed in accordance with best management practices and the soil sample recommendations from NCDA.

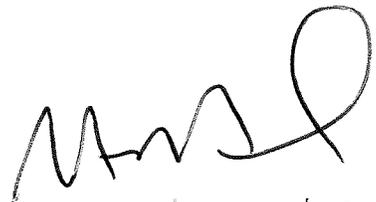
Additional nitrogen application from commercial sources may be needed when septage will not be applied to the field in order to keep the crop growing and healthy.

G. HARVEST OF THE CROPS AND THEIR USE:

1. The Bermuda grass 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. Three to four harvestings can be expected per year.
2. The ryegrass will be cut as hay and baled in April to mid May based on weather and growth.
3. A 30 day waiting period must be observed between application of septage and harvest. Field 1 will be idle for 30 days while septage is applied to field #2 to allow for harvest. Then field #2 will be idle for 30 days prior to cutting while septage is applied to field #1.
4. The bales of hay will be sold or given to a local farmer, feed to beef cows, or disposed of as to clear fields.

SOIL EROSION AND RUNOFF CONTROL PLAN

Given that slopes on this site do not exceed 2%, a 25 foot buffer, planted in bermuda-ryegrass and pine trees should suffice to prevent septage waste from migrating off of the fields. Where there is no woods bordering the field for buffer, there will be bermuda planted.


1/20/12

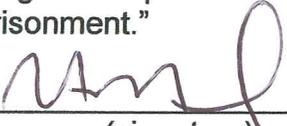
Septage Land Application Log Cover Sheet



Site Operator: Stephen Stanci
SLAS Permit #: 2404
Site Location: 388 Stancilway Dr - Tabor City, NC 28463
(street address for the site or latitude and longitude)
Number of acres permitted: 15.6
Permitted application rate: 50,000
(gallons septage per acre per year)
Crop(s): bermuda & rye grass
Crop nitrogen requirement(s): field 1: 50 nitrogen/unit (Bermuda) total 250
(pounds nitrogen per acre)
field 2: 50 nitrogen/unit (Bermuda) total 250
(Rye) total 50

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."


(signature)

1/12/12
(date)

Before we can process your application, you must properly complete Section III. Be sure to mail the Division a copy of the log from your septage land application site from April 2010 to the present, as required in Permit Condition 12 of your current permit. Also, please fill out the enclosed "Septage Land Application Log Cover Sheet" and mail with your application and land application logs.

Only complete permit applications will be processed and approved. Missing your permit deadlines will cause them to lapse. Continued operations without permits are subject to administrative penalties up to \$15,000 per violation per day. If you plan to discontinue use of the site or facility, you must notify the Division in writing. If you have any questions concerning the enclosed permit applications, please call me at (919) 707-8283.

Sincerely,



Chester R. Cobb, Soil Scientist
Composting & Land Application Branch



Enclosures
cc: Central Files

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There was not a
"Septage Land App Log
Cover Sheet"
if you'll email us one
we'll get it back to you!
— Robin

stancil@intrstar.net

1/2/12