

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

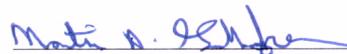
**PERMIT TO OPERATE A SEPTAGE LAND
APPLICATION SITE**

Matthews Septic Tank Service
Curtis L Matthews
PO Box 85
Farmville NC 27828

is hereby issued a permit to operate a Septage Land Application Site with permit # **SLAS-74-06** located on SR 1139 in Pitt County at approximate position 35.55954° N latitude and -77.54032° 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 effect at the time of review.

Date Issued 10/12/2012



Martin A. Gallagher, Branch Head
Solid Waste Section

Operator: Curtis L. Matthews
SLAS #: 74-06
County: Pitt

Page 2 of 3

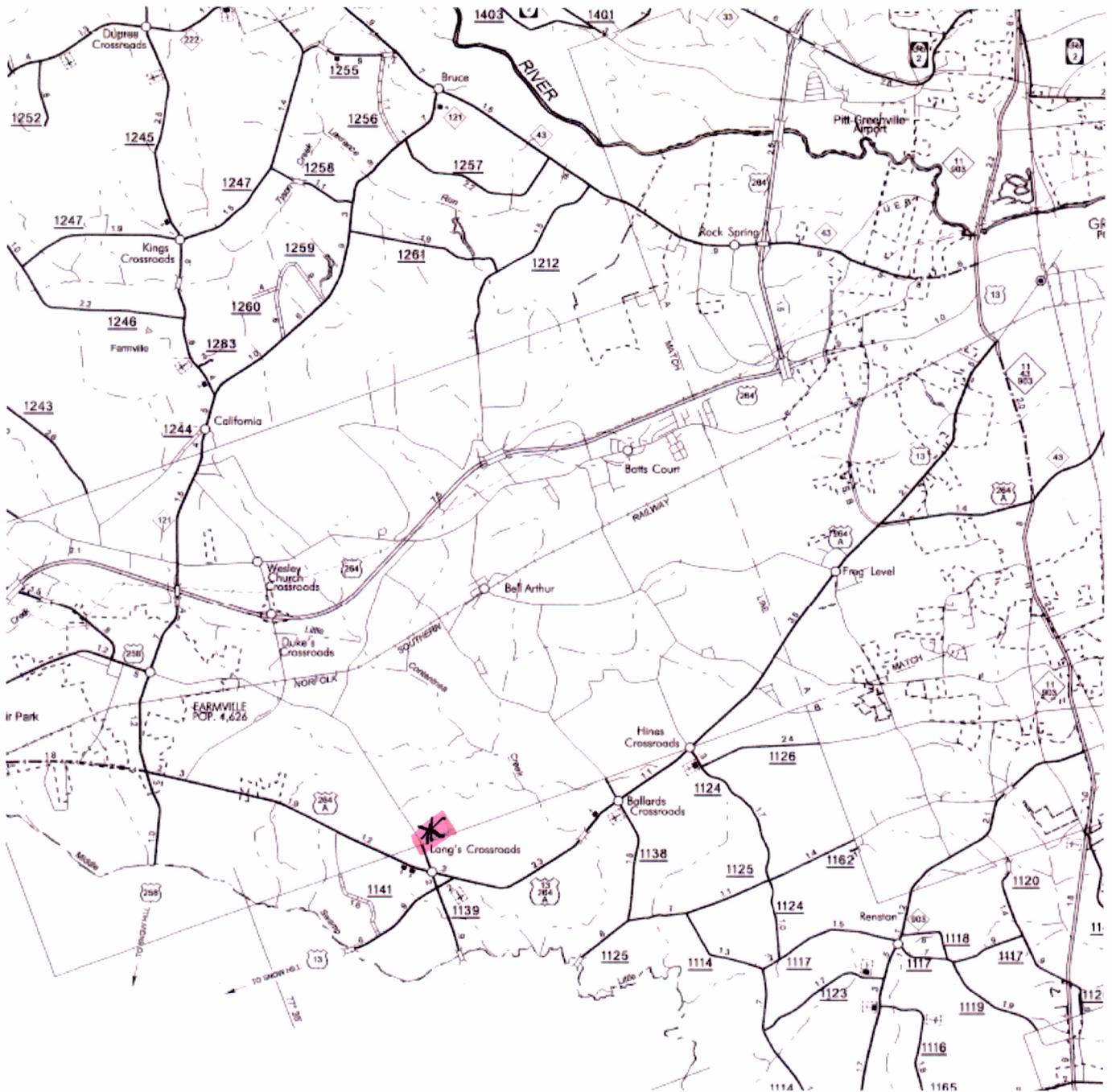
Permit Conditions:

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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.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 Curtis L. Matthews and approved by the Division of Waste Management. The site contains approximately 6.5 acres that is divided into two fields, Field 1 with 2.2 acres and Field 2 with 4.3 acres. The fields shall remain established in Coastal Bermudagrass. Areas that develop less than 80% ground coverage of Bermudagrass shall be resprigged at 40 to 50 bu/ac in March or April of the following year. The Bermudagrass shall be overseeded with rye (or oats or wheat) in October of each year at a seeding rate of 2 bushels per acre. Herbicides and/or mowing shall be used to manage weeds in the Bermudagrass. The Bermudagrass shall be cut and baled for hay whenever it reaches between 12 and 15 inches in height. At least three cuttings of Bermudagrass should be obtained within each year. The winter crop shall be cut and baled for hay or straw in March and April of each year. The mandatory 30-day waiting period between the last application of septage and the harvest of each crop shall be met by alternating septage applications between this site and another permitted septage land application site. 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 Curtis L. Matthews in such a manner as to prevent the migration of wastes off of the designated waste receiving 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 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 6.5 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 325,000 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 7,000 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.

Operator: Curtis L. Matthews
SLAS #: 74-06
County: Pitt

Page 3 of 3

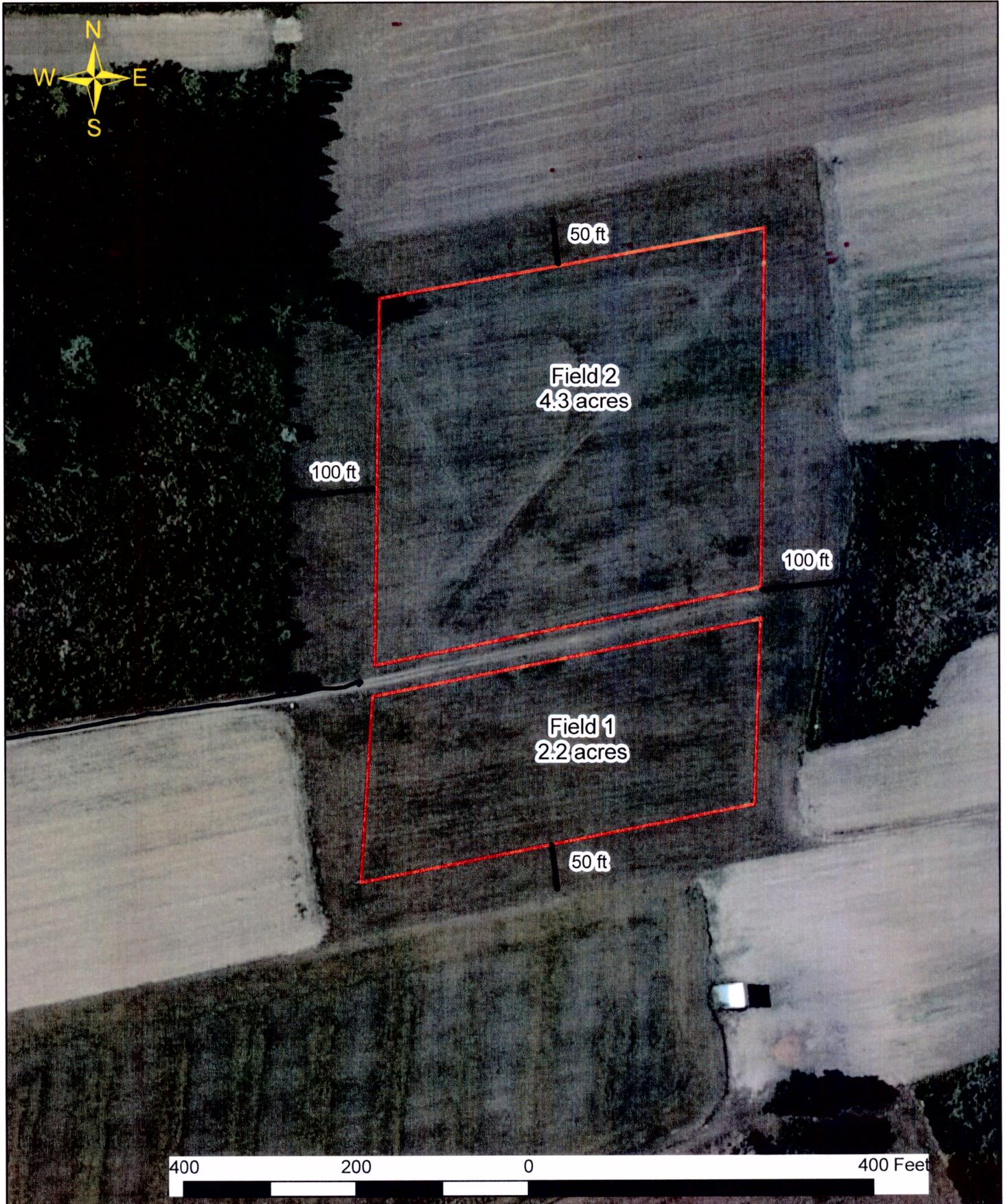
9. Only the area designated on the attached site map(s) shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner that there is no standing water when the discharge is complete.
10. Septage shall not be applied during 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 October 12, 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 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-74-06

- Off of SR 1139 in Farmville
- Position: 35.55954 latitude -77.54032 longitude

SLAS-74-06



Source: Bing Maps aerial imagery, ESRI, (c) 2010 Microsoft Corporation and its data suppliers; field boundaries, 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, Oct. 2012



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

October 29, 2012

Mr. Curtis L. Matthews
Matthews Septic Tank Service
PO Box 85
Farmville, NC 27828

**RE: SLAS-74-06 and SDTF-74-06 Permit Renewals
Matthews Septic Tank Service
SR 1139 in Pitt County**

Dear Mr. Matthews:

The NC Division of Waste Management has reviewed your application for renewal of septage land application site permit, **SLAS-74-06**, in Pitt County. Your application has been approved in accordance with NC Septage Management Rules and your permit, **SLAS-74-06**, 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 lists the acres of the fields and incorporates 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 septage or waste at this site is prohibited.
- **Condition 7.** States that there are approximately 6.5 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 325,000 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 October 12, 2016.** 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.

Also, the Division has reviewed your application for renewal of septage detention facility permit, **SDTF-74-06**, in Pitt County. Your application has been approved in accordance with NC Septage Management Rules and your permit, **SDTF-74-06**, is enclosed. Please read all permit conditions carefully. In particular, pay close attention to Conditions 7, 8 and 9. **Permit Condition 7** states that this facility consists of one steel tank with a site capacity of 20,000 gallons for the storage of domestic septage and grease trap pumpings. The storage or treatment of any other liquid or solid waste is prohibited. **Condition 8** states that only the Permittee or an employee of the firm named in the permit may discharge septage at this facility unless the Division is notified and approval granted by the Division. **Condition 9 states that this permit shall expire on January 19, 2016 and that an application for permit renewal shall be submitted at least ninety (90) days prior to the permit expiration date.**

Again, please pay close attention to all of the conditions within the enclosed permits. Each permit is different from the other and contains specific conditions in relation to the operation of a septage land application site or a septage detention facility. Permit, **SLAS-74-06**, covers the operation of the septage land application site and permit, **SDTF-74-06**, covers the operation of the septage detention facility. Remember that violations to the NC Septage Management Rules or these permits 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 these permits, please refer to them as "**SLAS-74-06**" or "**SDTF-74-06**".

Sincerely,



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

Enclosures

cc: Central Office
Pitt 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
401 Oberlin Rd., Ste. 150, Raleigh, N.C. 27605



I. Site and Operator Information

1. Applicant Curtis L. Matthews
Address P.O. Box 85
Farmville, NC 27828
Phone (252) 914-7890

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

3. Landowner Curtis L. Matthews
Address P.O. Box 85
Farmville, NC 27828

4. Site Location: County Pitt Co State Road Number _____
Directions to site: Main St Farmville - Turn South on
Maye Turnage Road (264A) 3 miles on left

5. Indicate whether request is: new _____ renewal x modification _____

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

Existing site permit number: 74-06 permit expiration date: 7-15-2011

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 6.0
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.** owned by Curtis L. Matthews

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

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

(over)

II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan on file
2. Soil Erosion and Runoff Control Plan on file
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): SDTF 74-06
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): Hydrated lime will be added to the Septage to raise pH to 12 for 30 minutes or longer - once the Septage has been stabilized at pH of 12 for 30 minutes, then land applied. Grease pumping for 2 hrs and stabilized then land applied
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): Septage will be applied evenly across the field from a moving truck with spreader
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): Site is 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.

Curtis L. Matthews
Signature***

4-12-11
Date

Curtis L. Matthews
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.

Addendum

“Application for a Permit to Operate a Septage Land Application Site”

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.

Curtis L. Matthews

Signature

12-9-17

Date

2008

MATTHEW'S SEPTIC TANK SERVICE
(updated January 2005)
NUTRIENT MANAGEMENT PLAN FOR
SEPTAGE APPLICATION TO
SITE # 74-06
(264A, FARMVILLE)

A. General Information:

1. Periodic sampling (at least 1/year) of the septage will be conducted for waste analysis.
2. The site is approximately 6 acres.
3. The dominant soil series at this site is Wagram (WaB).
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. Twenty thousand (20,000) gallons of storage is available to handle septage disposal when land application is not suitable.

B. Crops to be grown and approximate planting times:

1. The six acre site was planted (sprigged) in hybrid bermudagrass in the spring of 1988. Liming and fertilization according to soil test results will be followed to get optimum growth of the bermudagrass. Herbicide use and/or mowing will be used to manage weeds in the bermudagrass.
2. The hybrid bermudagrass will be overseeded each fall (October) with rye (oats or wheat could be substituted) at a rate of 2 bushels per acre. The rye will be cut and baled for hay or straw in March or April.
3. Areas that develop with less than 80% ground cover by bermudagrass will be resprigged at a rate of 40-50 bushels per acre in March or April the following year.

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.

Crop (cut for hay)	R.Y.E.	N App. Rate	lbs N/acre
hybrid bermuda	5.5 tons/ac	x 50 lbs N	= 275
rye	1.0 tons/ac	x 50 lbs N	= 50
		Total	= 325



D. * Relative application rate for site:

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

* low = 5000 gallons; medium = 10,000 gallons; high = 15,000 gallons; the cumulative application rate shall not exceed the permitted rate.

E. Application Method:

The preceding information is based on septage being evenly applied over the entire permitted site by broadcasting behind the truck. Septage will be lime stabilized prior to application.

F. Additional Fertility Requirements:

Additional fertilizer will be applied in accordance with NCDA&CS soil test results for the crop grown.

G. Harvest of the crops and their use:

1. All forages will be cut and baled for hay to be used for cattle feed.
2. The bermudagrass should be cut and baled when it is 12-15 inches tall. Three to five cuttings can be expected per season.
3. Rye will be cut and baled for hay in March and April.
4. Septage will be applied so that no area is harvested for hay until at least 30 days after septage application to that area. Beginning about the first of March each year, septage will be applied strictly to half of the field while the other half will be left undisturbed for 30 days. Half of the rye will be harvested in March; the other half will be harvested in late April or early May. By May, a rotation is established that can cycle every 30 to 45 days between bermudagrass harvests. By the end of October, rye will have been planted and the entire

site will be available for septage application until the end of February the following year.

H. Soil Erosion Plan:

1. The site will be covered with vegetation (hybrid bermudagrass, or hybrid bermudagrass overseeded with rye).
2. Buffer areas will be planted in bermudagrass/rye.
3. Erosion and runoff should be controlled by the vegetation.

Plan Submitted By: Curtis L. Matthews Date: 2-21-05
Operator

Plan Prepared By: _____ Date: 2-21-05
Phillip Rowan
Agricultural Ext. Agent
403 Government Circle
Greenville, NC 27834

Phone: 252-902-2703

~~No changes made 6-20-08~~
~~Curtis L. Matthews~~

6/20/08 ADDENDUM

- SEPTAGE APPLICATIONS ARE ALTERNATED BETWEEN SLAS 74-06 AND SLAS 35-05 TO MEET THE 30 DAY TIME FRAME FROM LAST SEPTAGE APPLICATION TO TIME FOR HARVEST.

Curtis L. Matthews 6-20-08

Curtis L. Matthews 12-9-11

SEPTAGE LAND APPLICATION LOG

CERTIFICATION

Site Operator: CURTIS L. MATTHEWS

SLAS Permit #: 74-06

Site Location: 35.55954°N, -77.54032°W
(street address for the site or latitude and longitude)

Number of acres permitted: 6 ACRES

Permitted application rate: 50,000 gal/ac/yr
(gallons septage per acre per year)

Crop(s): COASTAL BERMUDAGRASS / SMALL GRAIN (OVERSEED)

Crop nitrogen requirement(s): 325 lb/ac
(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."

Curtis L. Matthews
(signature)

8-30-12
(date)