



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**

Theodore Regan Hudson
7204 Old Laurel Road
Vale, NC 28168

is hereby permitted to operate Septage Land and Application Site with permit # **SLAS-12-03** located on SR#1796 in Burke County in approximate position 35.63719° N latitude and -81.48918° 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 12/20/2012


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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.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 Theodore Regan Hudson and approved by the Division of Waste Management. The 64.8-acre site shall be divided into four fields known as Field 1 (21.4 acres), Field 2 (14.5 acres), Field 3 (21.5 acres) and Field 4 (7.4 acres). All four fields shall remain established in fescue pasture and be grazed in a four-field rotation. Each of the four fields shall be grazed or cut as hay and baled whenever they reach approximately 12 inches in height. To meet the mandatory 30-day waiting period between the last application of septage and grazing or harvest of a crop, Field 1 shall be grazed or harvested while Fields 2 and 3 shall be undisturbed and Field 4 shall receive septage. After 30 days, Field 2 shall be grazed or harvested, Fields 3 and 4 shall be idle and Field 1 shall receive septage. After another 30 days, Field 3 shall be grazed or harvested, Fields 4 and 1 shall be idle and Field 2 shall receive septage. After another 30 days, Field 4 shall be grazed or harvested, Fields 1 and 2 shall be idle and Field 3 shall receive septage. Fescue in Fields 1 and 2 may be stockpiled in late summer or fall for winter grazing but land application shall not occur on these fields once the fescue has reached approximately 12 inches in height. 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 Theodore Regan Hudson 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, grease trap pumpings, and portable toilet waste.** 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 64.8 acres that are available for land application of septage.** The maximum annual application rate shall be 34,600 gallons per acre per year, for a total, maximum annual application of 2,242,080 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 43,116 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 20, 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, within 100 feet of any ditch or with 200 feet of any surface water unless specified otherwise.



North Carolina Department of Environment and Natural Resources

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December 20, 2012

Mr. Theodore Regan Hudson
7204 Old Laurel Road
Vale, NC 28168

**RE: SLAS permit renewal
Theodore Regan Hudson
SLAS-12-03
SR#1796 in Burke County**

Dear Mr. Hudson:

The NC Division of Waste Management has reviewed your application to renew a Septage Land Application Site permit in Burke County. Your application has been approved and your permit, # **SLAS-12-03**, 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 15, 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 December 20, 2017. 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 Martin Gallagher at (919) 707-8280.

Sincerely,

Connie Wylie, Soil Scientist
Composting & Land Application Branch

Enclosures

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone/Fax: 919-707-8200 \ Internet: <http://portal.ncdenr.org/web/wm/>

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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 Regan Hudson
Address 7204 Old Laurel Rd
VALE NC 28168
Phone 828-874-5147

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

3. Landowner Regan Hudson
Address 7204 Old Laurel Rd.
VALE NC 28168

4. Site Location: County Burke State Road Number 1796
Directions to site: From Hwy 18 Turn onto George Hildebran School Rd.
Then Right onto Old Laurel Rd. Site 1 mile on Right

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

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

Existing site permit number: SLAS 12-07 permit expiration date: 6-1-12

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: _____ 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 12-03
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 stabilized to pH of 12 for 30 minutes
2 hours for Grease at pH of 12
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): To be spread from pump truck with spreader plate, while truck is moving.
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): The 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.

Regan Hudson
Signature***

3-13-12
Date

Regan Hudson
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.

NUTRIENT MANAGEMENT PLAN FOR
SEPTAGE APPLICATIONS TO TALL FESCUE

FESCUE;

A. GENERAL INFORMATION;

FIELD #1 contains approximately twenty (20) acres and field #2 contains approximately eight (8) acres and field #3 contains fourteen (14) acres. field #4 contains seven (7) acres.

The dominant soil series at this site is pacolet clay loam. Septage will not be applied where the site is untrafficable.

All nitrogen recommendations for forages will be *75% of the yield expectation for the crop.*

B. Crops to be grown and approximate planting times:

1. Field #1, #2, #3, ^{#4} allready have established Fescue Spread.

Field #4 may have clover in Fescue stands. Attachment enclosed
Fields that develop less than 80% Fescue cover will be reseeded at a rate of 20 lbs. per acre.

C. NITROGEN NEEDS FOR CROPS GROWN; *in August, Sept., Feb, or March.*

Fields #1, 2, 3 and 4 need 90 lbs. nitrogen per acre. A maximum annual application rate shall be 34,600 gallons, per acre, per year. These application rates assume equal septage distribution on an annual basis over the permitted area.

additional Phosphorus and Potassium if needed will be added based on soil Test Requirements.

D. Relative application rate for FIELD #1 and #2; ^{#3, #4}

Nutrient plan continued

MONTHS

	<u>Field</u>
January	<u># 1, 2 and 3; 4</u>
February	Low
March	MEDIUM
April	High
May	HIGH
June	Medium
July	Low
August	Low
September	Low
October	Medium
November	Medium
December	Medium

Low= 5,000 gallons Medium= 10,000 gallons;
High= 15,000 gallons.

Note: Cumulative applications rate is not to exceed the permitted application rate.

Application method:

The preceding information is based on septage being evenly applied over the entire permitted site by spraying from a vacuum truck using air pressure and a spread plate.

Harvest of the crops and their use:

All harvest will be 30 days after last application

Fields #1, 2, 3, and 4 planted with perennial grasses, primarily fescue and are used as pasture land. These fields are mowed for hay and used for summer and winter grazing.

These fields are used in a four-field rotation in which Field #1 is grazed, field #2 and 3 is undisturbed, while field #4 receives septage. After 30 days, field #2 would be grazed Field #3 and 4 would be left undisturbed, while Field #1 receives septage.

Fescue in 1 or 2 Fields may be stockpiled in late Summer or Fall for winter grazing. Attachment enclosed. Septage will not be applied to Fields being stockpiled for winter grazing after forage has reached a height of 12 to 15 inches.

(Handwritten signature)

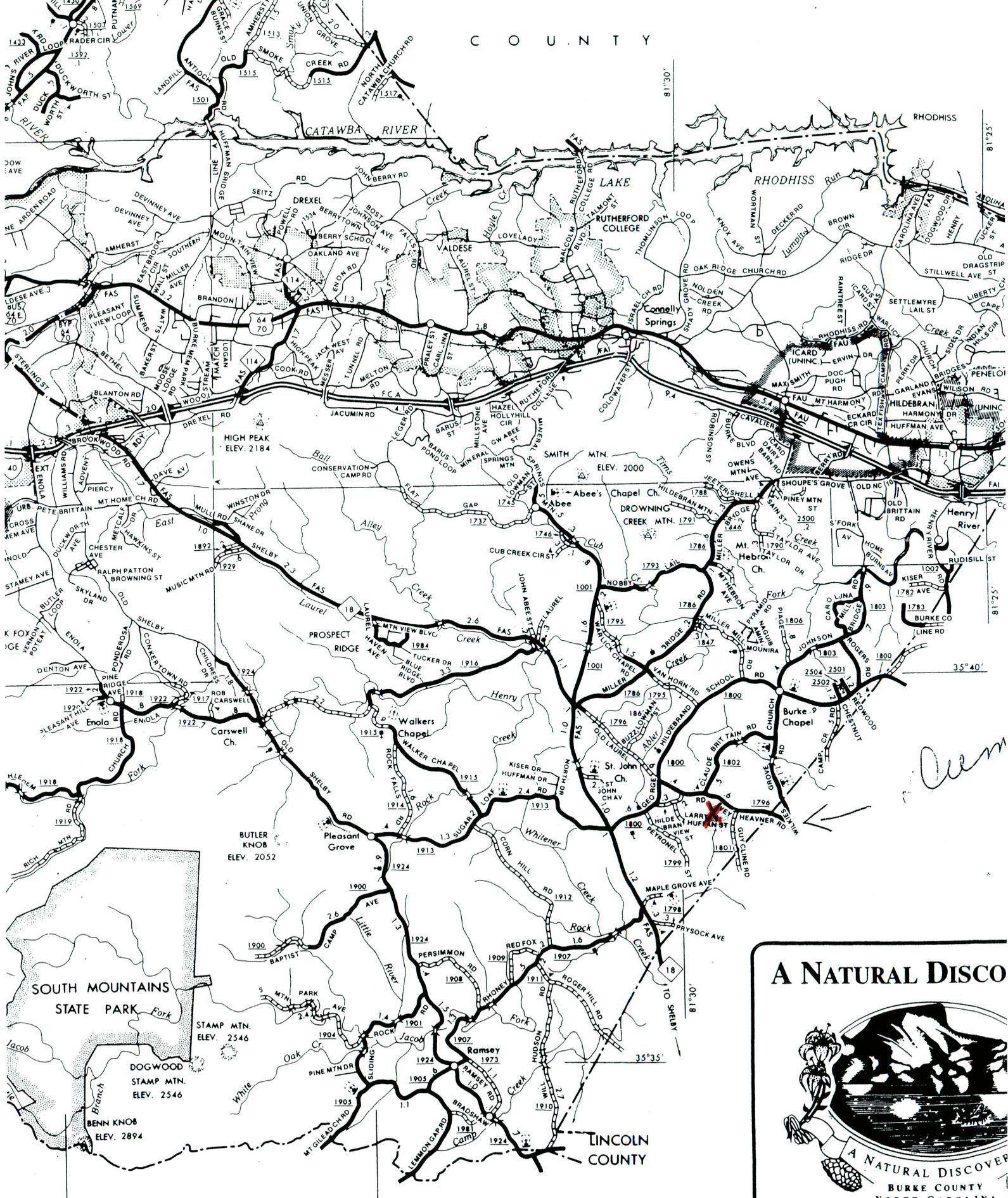
Soil Erosion and Runoff

Some fields may have a Fescue Buffer while others may have Trees.
1 Field may even have a Kudzu buffer.

Submitted by Regan Hudson

3-19-12

Regan Hudson



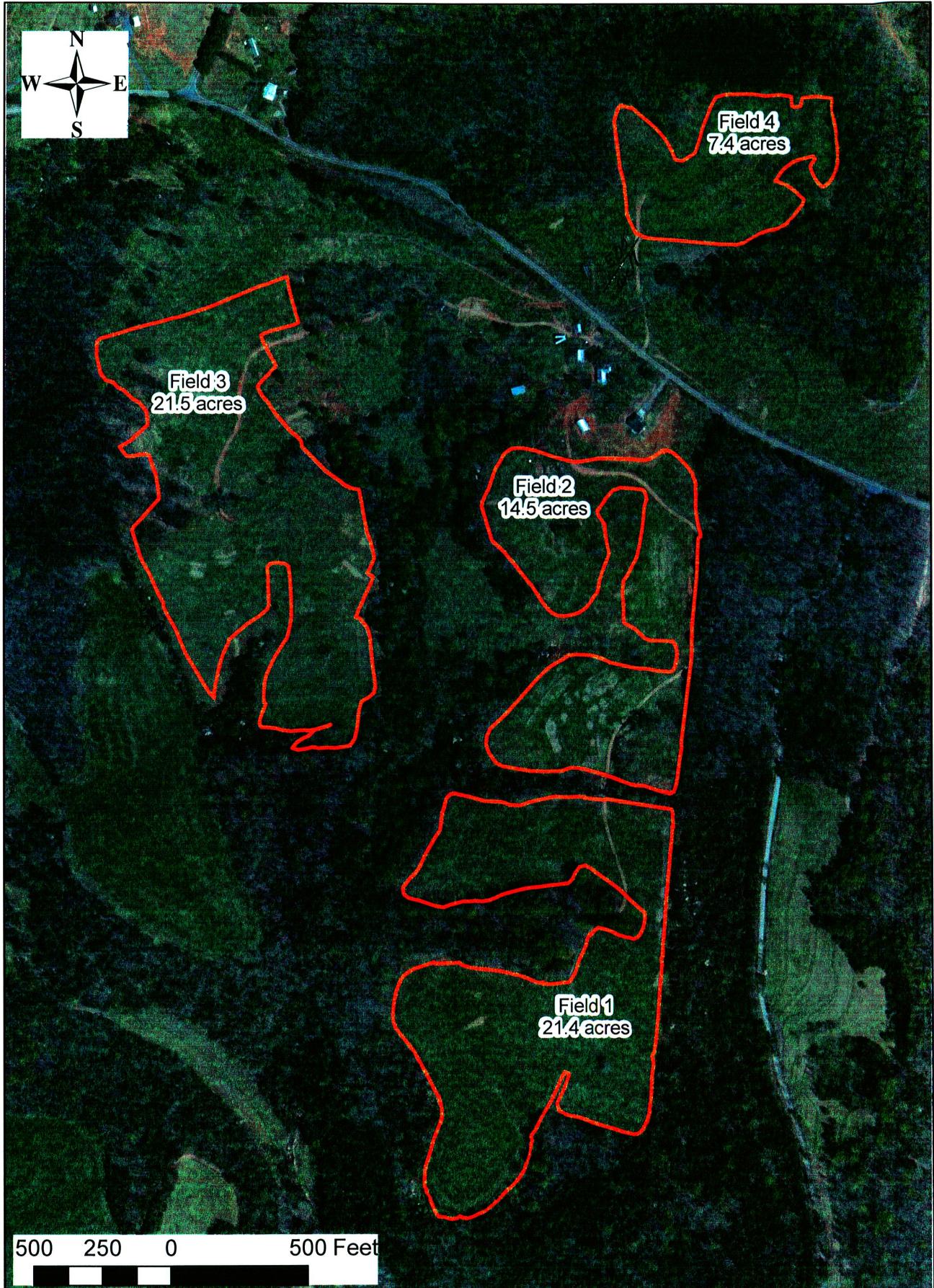
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 BURKE COUNTY
 NORTH CAROLINA

BURKE COUNTY
NORTH CAROLINA

SLAS-12-03

35.63719°N latitude
-81.48918°W longitude



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