



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

September 12, 2011

Mr. Gerald M. Murrell
Waste Management of the Carolinas, Inc
Dba Waste Management of Wilmington
3920 River Road
Wilmington, NC 28412

**RE: SLAS-24-08 Permit Issuance
Waste Management of the Carolinas, Inc
Dba Waste Management of Wilmington
Hwy 211 in Columbus County**

Dear Mr. Murrell:

The NC Division of Waste Management has reviewed your application for a permit to operate a septage land application site in Columbus County. Your application has been approved in accordance with NC Septage Management Rules and your permit, **SLAS-24-08**, 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. In particular, pay close attention to **Permit Conditions 3, 7, 8, 9, 11, 12, 13, 14, 15, 18, and 23**. The following is a summation of those Conditions.

- **Condition 3.** Management of the pine trees must follow the recommendations of an established Forester and the understory growth within the irrigation lanes must be maintained.
- **Condition 7.** Septage that may contain waste resulting from any processes of industry, manufacture, trade, or business shall not be land applied.
- **Condition 8.** States the annual application rates for the pine trees and the bermudagrass fields. Refer to your nutrient management plan for the monthly application rates. Applications are not to exceed the permitted rates and amount.
- **Condition 9.** Quarterly samples of the dewatered septage effluent must be taken and analyzed for plant nutrients. Copies of the results must be submitted to the Division.
- **Condition 11.** It must be demonstrated to the Division that the irrigation system will evenly cover the designated areas and not spray septage outside of the permitted boundaries.
- **Condition 12.** Septage shall only be applied when soil and weather conditions are favorable for application. Soil and weather conditions must also be considered prior to any septage application.
- **Condition 13.** Soil conditions must be monitored such that any septage application will not result in ruts greater than three inches in the soil surface.
- **Condition 14.** Any discharge, including aerial drift, of septage outside of the permitted boundaries is prohibited.
- **Condition 15.** You must notify the Division as soon as possible, but within twenty-four (24) hours of first knowledge, the occurrence of any discharge outside of the permitted boundaries or any exceedance to the permitted application rates.

- **Condition 18.** 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.
- **Condition 23.** The site must be inspected by a representative of the Division prior to the initial septage application.

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) 508-8400. When communicating to the Division about this permit, please refer to it as "**SLAS-24-08**".

Sincerely,



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

Enclosure

cc: Central Files
Joe Gallo, Environmental Senior Specialist
Columbus County Health Department

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

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

Waste Management of the Carolinas, Inc.
Db a Waste Management of Wilmington
3920 River Road
Wilmington, NC 28412

is hereby issued a permit to operate a Septage Land Application Site with permit # **SLAS-24-08** on NC Hwy 211 in Columbus County at approximate position 34.19057° N latitude and -78.37894° 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

9/12/11



Michael E. Scott, Chief
Solid Waste Section

Operator: Waste Management of the Carolinas, Inc.
SLAS #: 24-08
County: Columbus

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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 of both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Waste Management of Wilmington and approved by the Division of Waste Management. The 39.1 acres site will be divided into four fields as follows: Field 1 (15.1 acres), Field 2 (6.4 acres), Field 3 (5.2 acres), and Field 4 (12.4 acres). Fields 1 and 4 have an established stand of loblolly and longleaf pine trees. Fields 2 and 3 are to be established in bermudagrass at a seeding rate of 25 to 30 lb/ac in 2012. Sometime between the first of September and the end of October, a small grain crop will be planted at a rate of 125 lb/ac. The bermudagrass shall be cut as hay whenever it reaches a height of approximately 12 inches for about 3 harvests each year. The small grain shall be cut as hay and baled from each field in April or May of each year. The 30-day waiting period between the last application of septage and the harvest of a crop shall be met by alternating septage applications between the other permitted fields. Supplemental nutrients shall be added at rates that do not exceed soil test recommendations or realistic yield expectations (RYE). All discharges shall be consistent with the crop rotation listed in the approved plan.
3. **The management of the pine trees shall follow the recommendations of an established Forester. The understory growth within the irrigation lanes of the pine tree fields to receive or receiving septage shall be mowed to a height of 12 inches or less twice a year, once by the end of May and once by September 15.**
4. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by Waste Management of Wilmington to prevent waste from migrating off of the site. Areas around the permitted pine tree fields shall remain vegetated. Areas around the bermudagrass fields shall be established in bermudagrass with a small grain planted for the winter months. 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.
5. The issuance of this permit does not preclude or exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, or 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.
6. This permit may be modified or reissued at any time to incorporate any condition, limitation, and / or monitoring requirement the Division deems necessary to adequately protect the environment and public health.
7. This site is only permitted for the land application of domestic septage, grease trap pumpings, portable toilet waste, and domestic septage from commercial and industrial facilities. **Septage that may include waste resulting from any processes of industry, manufacture, trade, or business shall not be land applied.** 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. **Grease septage may be land applied without diluting 1:1 with domestic septage or water, if sufficiently processed (dewatered) through the SDTF facility (permit #65-01) and no crop damage occurs.**

8. **This site contains approximately 39.1 acres that are available for the land application of septage. The maximum annual application rate for the pines shall be 25,000 gallons per acre per year, for a total, maximum annual application of 687,500 gallons to Fields 1 and 4. The maximum annual application rate for the bermudagrass / small grain overseed shall be 50,000 gallons per acre per year, for a total, maximum annual application of 580,000 gallons to Fields 2 and 3. The total maximum permitted volume for this site is 1,267,500 gallons per year. 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. Daily septage applications shall be limited to a maximum of 27,154 gallons per acre where allowed based on the crop grown and monthly application rate listed within the nutrient management plan.**
9. **The dewatered septage effluent shall be sampled and analyzed on a quarterly basis at a minimum. Copies of the results shall be submitted to the Division.**
10. An approved above ground septage detention system with a minimum design capacity of 25,000 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.
11. Only the area designated on the attached site map(s) shall be utilized for septage disposal. Septage shall be applied by use of a spreader vehicle and irrigation system as described in the distribution plan submitted by Waste Management of Wilmington. Septage shall be applied evenly within the permitted boundaries with no standing liquid after the discharge is complete. **Waste Management of Wilmington must adequately demonstrate to the Division that the irrigation system will evenly cover the designated areas and not spray septage outside of the permitted boundaries. The Division shall be notified of any proposed changes to the distribution plan prior to implementation.**
12. 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.
13. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
14. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.
15. The Permittee shall notify the Division by telephone as soon as possible, but within twenty-four (24) hours of first knowledge, the occurrence of:
 - a. Any discharge of septage outside of the permitted boundaries.
 - b. Any application of septage in excess of the limits listed in Condition 8 of this permit or the nutrient management plan.

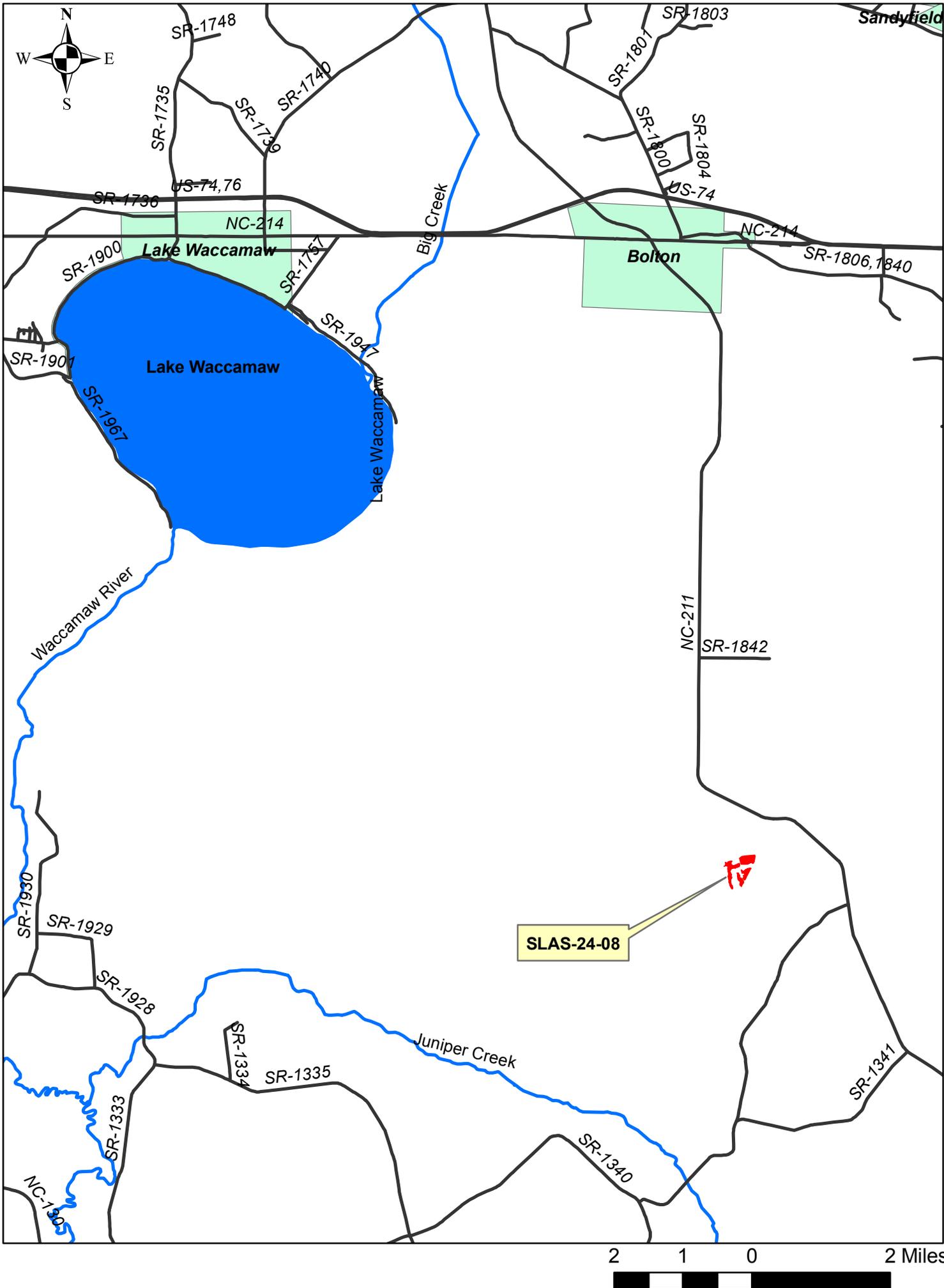
For reporting any emergency after normal business hours, contact the Division of Emergency Management at 1-800-858-0368.

16. This permit shall become void 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 from the Division.

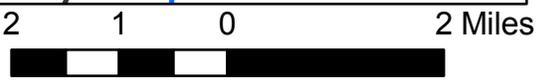
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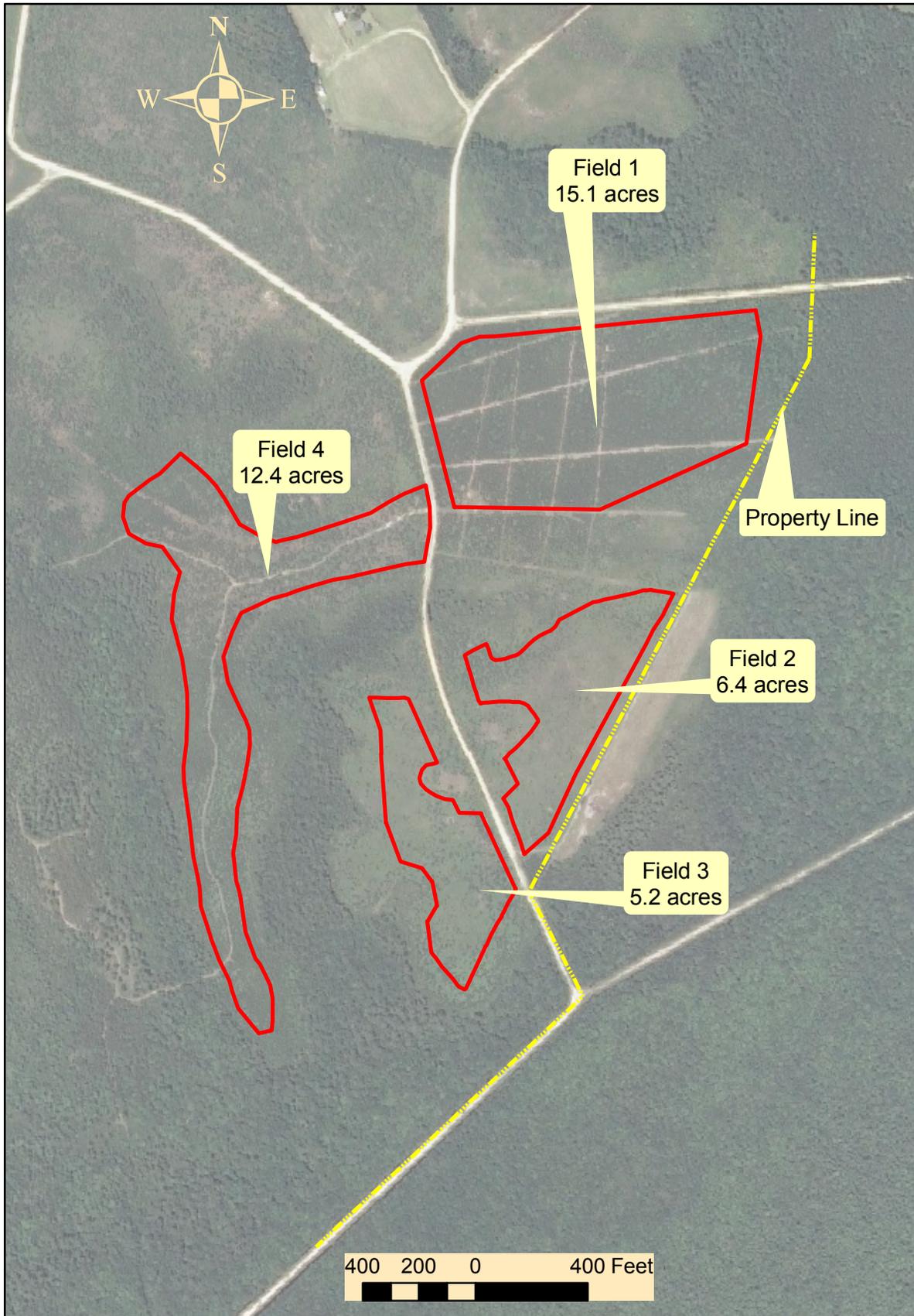
17. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.
18. **This permit shall expire on September 12, 2012.** 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).
19. Records shall be kept in accordance with 40 CFR Part 503.17 (b). These records shall be made available to a representative of the Division upon request and submitted monthly to the Division.
20. 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.
21. 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.
22. 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.
23. **Prior to the initial septage application, the site shall be inspected by a representative of the Division to determine compliance with NC Septage Management Rules and consistency with the permit application and all permit conditions.**



SLAS-24-08



SLAS-24-08



NAD 1983, NC State Plane (FIPS 3200)

Source: 2010 NAIP Color Imagery, NCDA; site boundary, NC DENR Division of Waste Management.

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