North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

John E. Skvarla, III
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

Roberts Septic Tank Cleaners
Denise R. Roberts
431 South Cheatham Street
Franklinton, NC 27525

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-35-01** located on SR#1211 in Franklin County at approximate position 36.11943° N latitude and -78.41419° 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 8/28/2014

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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.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 Denise R. Roberts and approved by the Division of Waste Management. **The 13.7-acre site shall be divided into three fields known as Field A (4.5 acres), Field B (5.5 acres) and Field C (3.7 acres).** The mandatory 30-day waiting period between the last application of septage and the harvest of a crop shall be maintained. 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 Denise R. Roberts in such a manner as to prevent the migration of wastes off of the designated waste receiving site. A 50-feet buffer of tall fescue or wooded areas shall be maintained 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.** 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.

7. **This site contains approximately 13.7 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year. At this application rate, a maximum annual volume of 685,000 gallons may be applied to this site. 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 application rates as listed in the approved nutrient management plan for the site.

8. An approved above ground septage detention system with a minimum design capacity of 13,173 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 August 28, 2019.** 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 to meet the minimum setback distances as described in NC Septage Management Rule 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.

North Carolina Department of Environment and Natural Resources

Pat McCrory
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John E. Skvarla, III
Secretary

August 28, 2014

Ms. Denise R. Roberts
Roberts Septic Tank Cleaners
431 South Cheatham Street
Franklinton, NC 27525

RE: SLAS permit renewal
Roberts Septic Tank Cleaners
SLAS-35-01
SR#1211 in Franklin County

Dear Ms. Roberts:

The NC Division of Waste Management has reviewed your renewal application for a Septage Land Application Site permit in Franklin County. Your application has been approved and your permit, **# SLAS-35-01**, 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 **August 28, 2019.** 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 S. Wylie, Soil Scientist
Division of Waste Management, NCDENR

Enclosures
cc: Garland S. Goswick, landowner
Franklin 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

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MAR 13 2014
SOLID WASTE SECTION

I. Site and Operator Information

1. Applicant Denise R. Roberts
   Address 431 South Cheatham Street
   Franklinton, NC 27525
   Phone 919-494-2914

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

3. Landowner Garland S. Goswick, II
   Address 435 South Cheatham Street
   Franklinton, NC 27525

4. Site Location: County Franklin State Road Number 1211
   Directions to site: Take SR 1211 east from Franklinton for approximately 3-4 miles; site is on right across from Ballard Pruitt Road.

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

   For a permit renewal or modification, provide the following information:
   Existing site permit number: SLAS-35-01 permit expiration date: 5/5/2014

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 13.56 acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:
   (a) None X 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).

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MAR 13 2014
DIVISION OF WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

(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): on-site storage tank SDTF-35-01 or haul septage to Louisburg Wastewater Reclamation Plant (authorization on file)
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_____
   (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): ~~Septage will be treated with lime (lime stabilization) to ph 12 for 30 minutes~~ before being land applied.

6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): ~~As the truck is driven through the fields, septage will be~~ applied with a sprayer/spreader mounted to the truck.

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 application site is all 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.

Denise L Roberts — **Signature*****

3/3/14 — **Date**

Denise L. Roberts — **Print name**

Owner — **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.**

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DIVISION OF WASTE MANAGEMENT
WILMINGTON REGIONAL OFFICE

Landowner's Authorization to Operate a Septage Land Application Site

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MAR 12 2014
SOLID WASTE SECTION

North Carolina Department of Environment and Natural Resources
Division of Waste Management - Solid Waste Section
1646 Mail Service Center, Raleigh, NC 27699-1646

I, Garland S. Goswick, II (name of site owner) hereby certify that I am the owner of 55 acres of land located on SR 1211 east of Franklinton, NC (Franklin County) and identified by Map Book 21, page 269 (book and page of recorded deed or tax map parcel) and that I agree to allow Denise R. Roberts (name of site operator) to use said land for septage land application for a period of indefinite (length of time), beginning 1/1/2014 (month, day and year) and that I have read the North Carolina Septage Management Rules *, and I understand and agree to maintain the restrictions on land use after septage land application ends **. I further understand that no septage may be land applied until the Division of Waste Management has issued a permit for a septage land application site. The above described property is owned solely by me or jointly with

none (names of all co-owners, or state none).

Signature of landowner [signature] Date 3/11/14

Signature of landowner Date

Sworn to and subscribed before me this 11 day of March, 2014.

Michael L. Duvall
(Notary Public)

My Commission expires: Jan 26 2019

(OFFICIAL SEAL)

MICHAEL L. DEVALL NOTARY PUBLIC FRANKLIN COUNTY, NC

* 15A N.C. Admin. Code 13B Section .0800

** As required by Rule .0843

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MAR 12 2014
SOLID WASTE SECTION
RECEIVED
MAR 13 2014
DIVISION OF WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

NUTRIENT MANAGEMENT PLAN FOR SEPTAGE APPLICATION TO TALL FESCUE

Roberts Septic Tank Cleaners
NCS #00347

A General Information:

1 Periodic sampling (at least 1/year) of the septage will be conducted for waste analysis.

2 Field #A contains ~~4.36~~ 4.5 acres, Field #B contains ~~5.52~~ 5.5 acres, and Field #C contains ~~3.78~~ 3.7 acres.

3 The dominant soil series at this site is appling.

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 All nitrogen recommendations for forages will be 75% of the relative yield expectation nitrogen rate should the forage be only grazed. Hay will also be harvested.

6 Septage storage shall be provided to account for the average volume of septage pumped per week, and disposal options of discharging at a waste treatment plant (Louisburg Wastewater Reclamation Plant), is in place.

B Crops to be grown:

1 Areas that develop with less than 80% groundcover by fescue will be reseeded with fescue at a rate of 15-20 lbs/acre using the broadcast method in the fall (September/October) and in the spring (March/April) (depending upon the weather).

2 Field #A, including buffer zones, is established in fescue.

3 Field #B is established in fescue.

4 Field #C is established in fescue.

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
Tall Fescue	4.5	x	51 lbs.	=	230

Crop (grazed)	R.Y.E.		N App. Rate		Reduction Factor		lbs N acre
Tall Fescue	4.5	x	51 lbs.	x	7.5	=	172.5

D Relative application rate for Field #A, Field #B, and Field #C:

Month	Field		
	#A	#B	#C
January	Low	Low	Low
February	Low	Low	Low
March	Medium	Medium	Medium
April	High	High	High
May	Medium	Medium	Medium
June	Low	Low	Low
July	Low	Low	Low
August	Low	Low	Low
September	Low	Low	Low
October	Medium	Medium	Medium
November	Low	Low	Low
December	Low	Low	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. Annual application rate is not to exceed 50,000 gallons per acre.

E Application Method:

The preceding information is based on the septage being evenly applied over the entire permitted site by truck-mounted spreader/sprayer.

F Additional Fertility Requirements:

Approximately 40 lbs. N in February, 40 lbs. N in September, 40 lbs P and 80 lbs. K in February (on a per acre basis) to supplement nutrients supplied by septage. These rates are based on soil test recommendations and waste analysis of the septage.

The object is to maintain healthy fescue cover and to make full use of nutrients from septage. If the fescue stand can be maintained with septage application only, additional fertilizer application will not be necessary. However, soil pH must be maintained at proper levels with application of lime.

The buffer areas should be fertilized with 60lbs/acre of 10-10-10 N-P-K fertilizer to maintain production based on soil test results.

G. Harvest of the crops and their use:

1 The fescue 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 if the fields are not being grazed. Approximately three to four harvests can be expected.

2 A 30 day waiting period shall be observed between the last application of septage and harvest. Beginning about the first of June each year, septage will be applied strictly to Field C while the fescue in Fields A and B is undisturbed for 30 days. For the second month (July), the septage application will be moved to Field A while Fields B an C are left undisturbed. In the third month (August), septage will be applied to Field B. The fescue will be harvested from Field C and Field A will be left idle (undisturbed). For September, septage will be applied to Field C while the fescue in Field A will be harvested and Field B will be left undisturbed. Septage will be applied to Field A in October while the fescue is being harvested from Field B and Field C is being left undisturbed. In November, septage will be applied to Field B. Fescue will be harvested from Field C while Field A is left undisturbed. The rotation of septage among the fields will continue throughout the year.

3 The bales of hay will be sold to a local farmer to feed his beef cows.

4 The fields are being grazed. A three-field rotation has been established in which Field A is grazed, Field B is undisturbed while Field C receives septage. After 30 days, Field B is being grazed, Field C is being left undisturbed while Field A receives septage. After 30 days, Field C is being grazed and Field A is being left undisturbed while Field B receives septage. Currently, the cows are grazing on the site for approximately 7-10 days per month and then are being returned to their owner's pasture for the remainder of the month. Therefore, we will continue the three-field rotation for grazing and septage application.

SOIL EROSION AND RUNOFF CONTROL PLAN

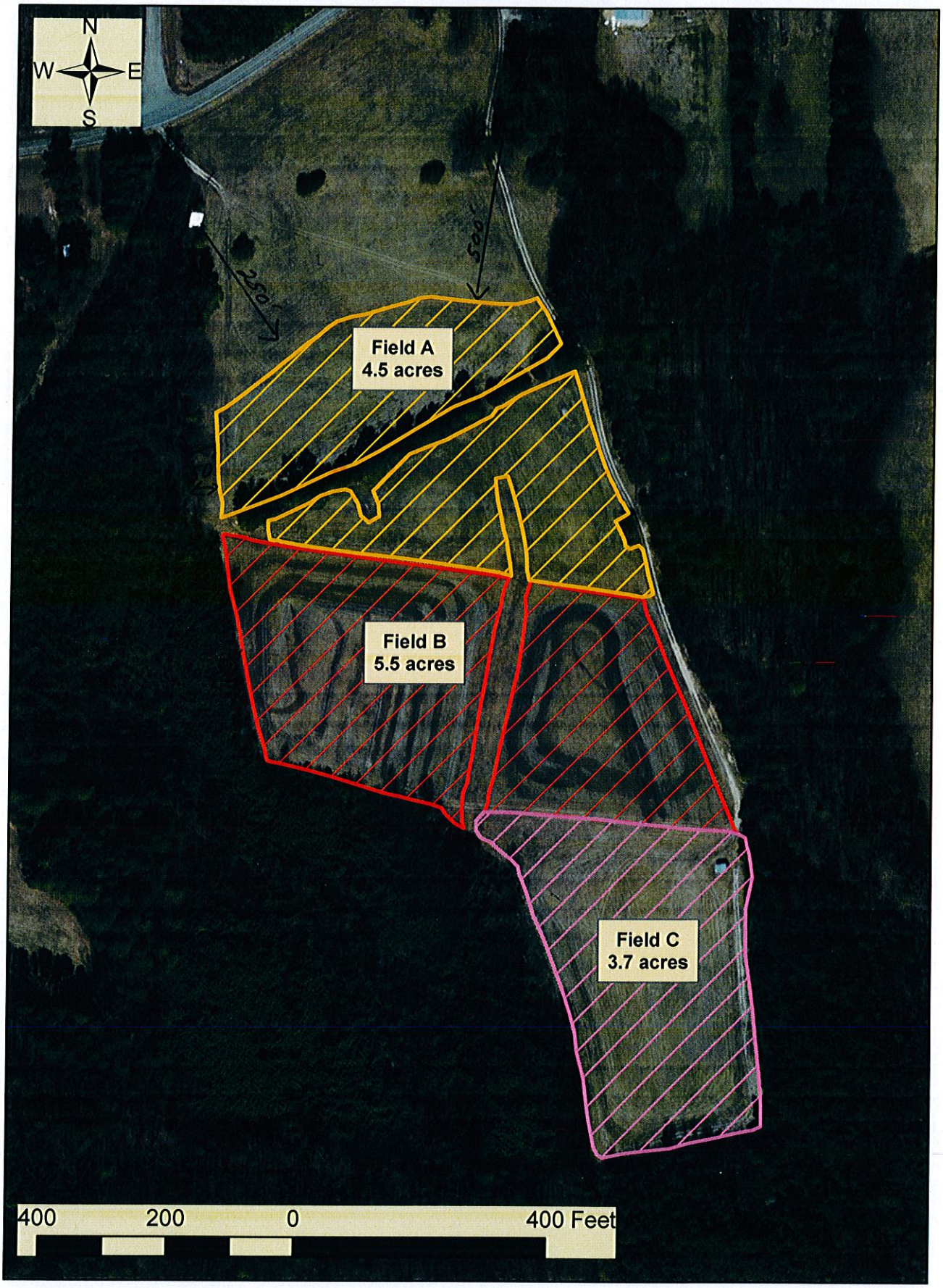
Given the slopes on this site do not exceed five percent, a 50 foot buffer, planted in tall fescue, should suffice to prevent septage waste from migrating off the fields.

Submitted by: Denise L Roberts Date: 2/28/14
Site Operator

Plan Prepared by: Denise L. Roberts Date: 2/28/14
Address: 431 South Chestnut Street
Franklinton NC 27525
Phone: 919-494-2914

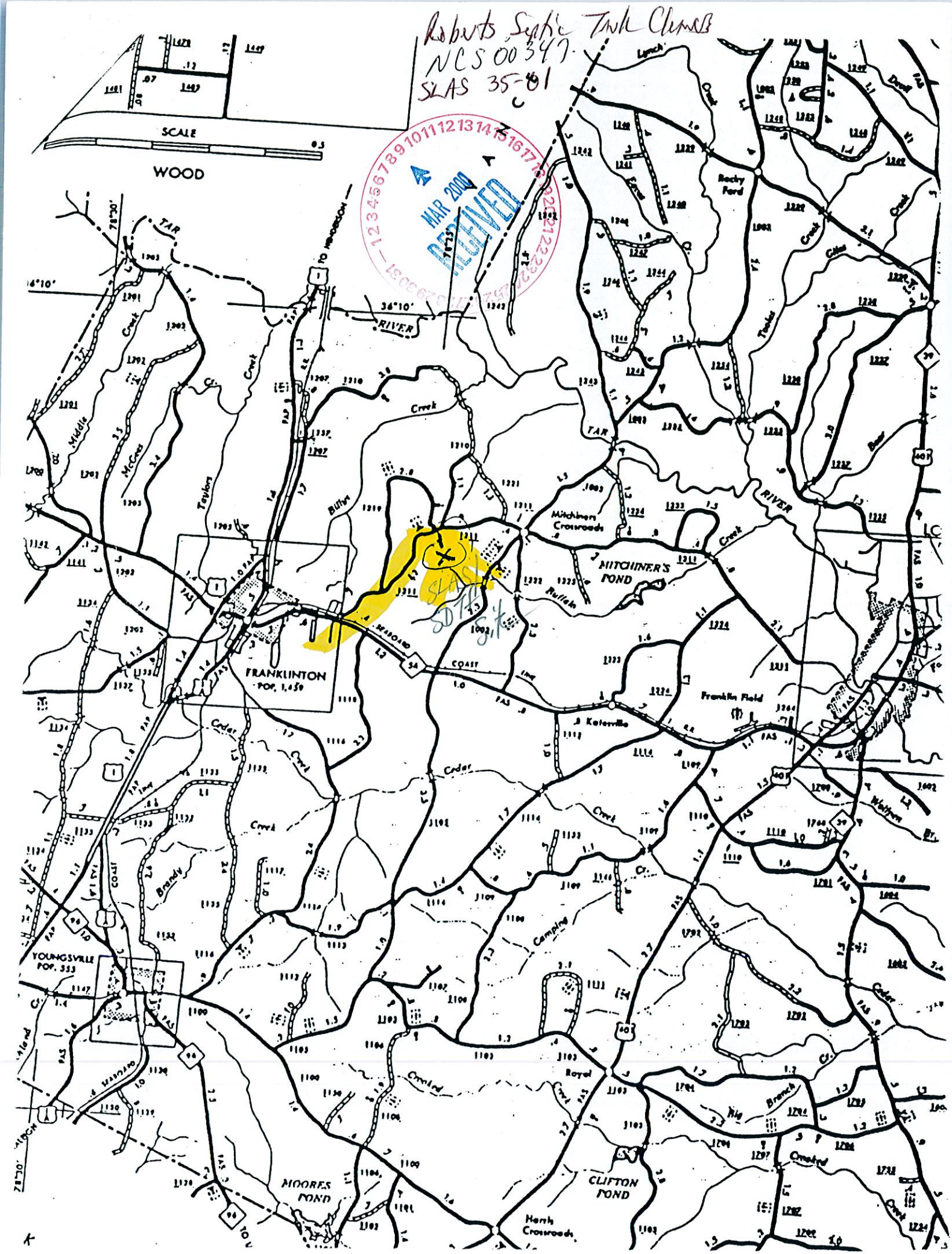
36.11943°N latitude
-78.41419°E longitude

SLAS-35-01



Source: Aerial image from Esri, DigitalGlobe, GeoEye, i-cubed, USDA FSA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community. Site boundary from NC DENR Division of Waste Management. Map created by NC DENR Division of Waste Management for permitting purposes only.

crc, June 2014


Roberts Septic Tank Cleaners
NCS 00347
SLAS 35-01
SCALE
WOOD
MAR 2000
RECEIVED
TO HENDERSON
TAR
RIVER
Rocky Ford
Mitchiners Crossroads
MITCHINER'S POND
FRANKLINTON
POP. 1,459
SEABOARD
COAST
LINE
Katesville
Franklin Field
YOUNGSVILLE
POP. 555
Royal
MOORES POND
CLIFTON POND
Harris Crossroads
Middle
McCees
Taylors
Billys
Cedar
Brandy
Camping
Crooked
Big Branch
Wolfpen Br.
Lynch
Devil
Tooles
Gilles
Bear
Buffalo
SLAS
SDTH
S.K.