



North Carolina Department of Environmental Quality

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

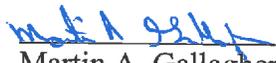
PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

R & D Septic Tank Service
Randy Register
117 Davis Road
Cove City, NC 28523

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-25-12** located on SR 1480 in Craven County at approximate position 35.25974° N latitude and -77.27737° 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 5/4/2016

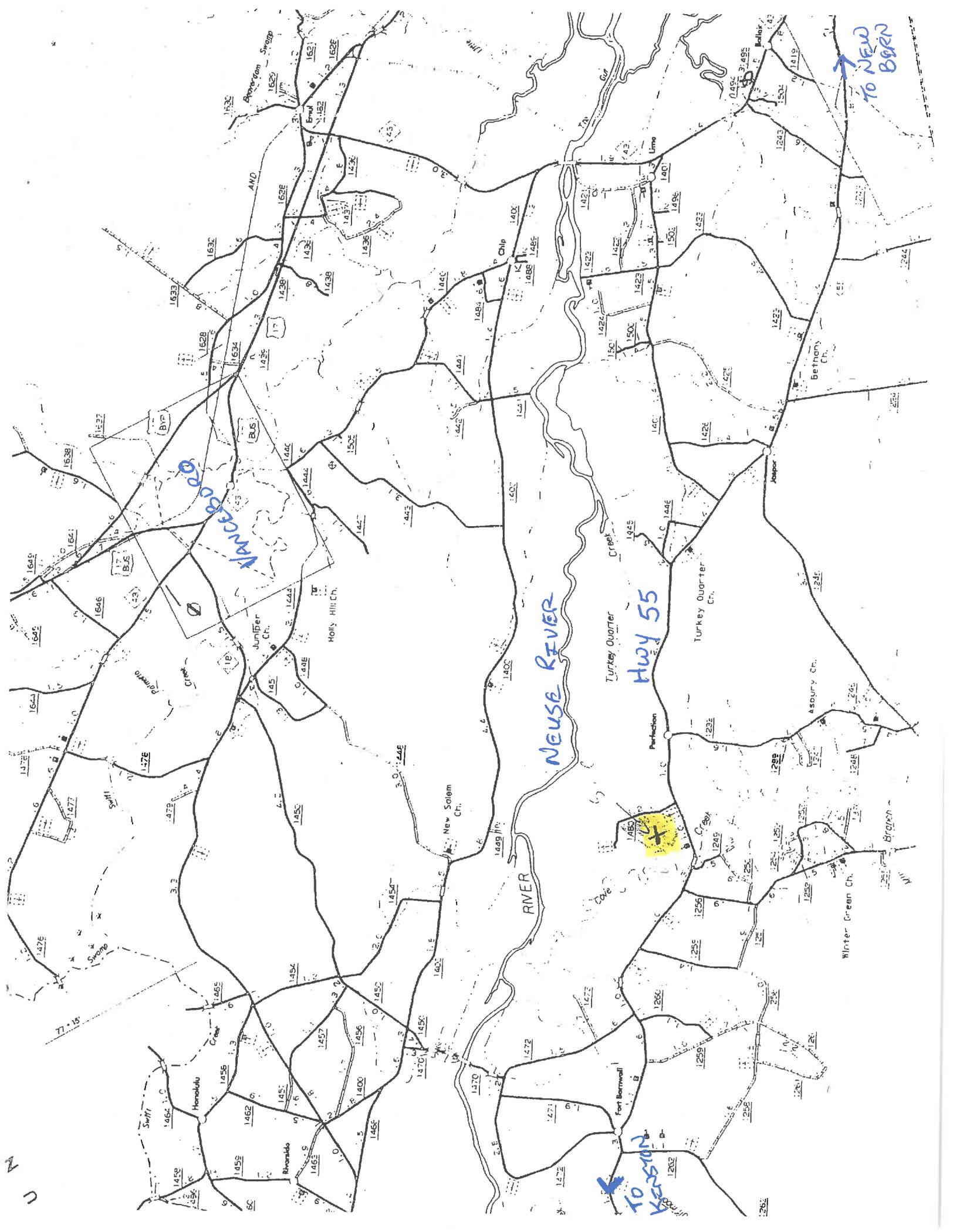

Martin A. Gallagher, Supervisor
Composting & Land Application Branch,
Solid Waste Section
Division of Waste Management, NCDEQ

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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Randy Register and approved by the Division of Waste Management. The 11.7-acre site is divided into two fields as Field 1 (5.9 acres) and Field 2 (5.8 acres). Septage shall only be applied to the fields planted in millet during the summer and to the fields planted in rye or other small grain in the winter. The crops shall be harvested for hay as covered in the nutrient management plan. The 30-day waiting period between the last application of septage and the harvest of a crop shall be observed if the hay is going to be used for livestock. 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 Randy Register in such a manner as to prevent the migration of wastes off of the designated waste receiving site. A 50 feet vegetative buffer shall remain established around the perimeter of permitted fields. 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.** The pH of domestic septage 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 as per 15A NCAC 13B .0841(c)(1).
7. **This site contains approximately 11.7 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gal/ac/yr for a total maximum annual application volume of 585,000 gallons for the entire site. Application amounts to each disposal field shall not exceed the maximum annual application rate or the monthly application rates listed in the approved nutrient management plan. The maximum annual application rate assumes equal septage distribution, on an annual basis, over the entire permitted area.
8. An approved septage detention facility with a minimum design capacity of 11,500 gallons, as per 15A NCAC 13B .0841(a), shall be available prior to operation of this site unless an approved disposal option is available for use when land application of septage is prohibited. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inadequate.
9. Only the area designated on the attached site map 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 May 4, 2020.** An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. When necessary, an application for permit modification shall be submitted for any proposed change listed in 15A NCAC 13B .0835(h). Along with the application for permit renewal or modification, the prescribed information listed in 15A NCAC 13B .0835(c) through (i) and the septage application records for the period of time this permit was valid shall be submitted.
16. Records shall be kept in accordance with 15A NCAC 13B .0838(e)(1) and the Code of Federal Regulations, 40 CFR Part 503.17(b) to document all septage applications to the site. 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 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 or within 300 feet of any ditch or tributary draining into nutrient sensitive waters unless specified otherwise.



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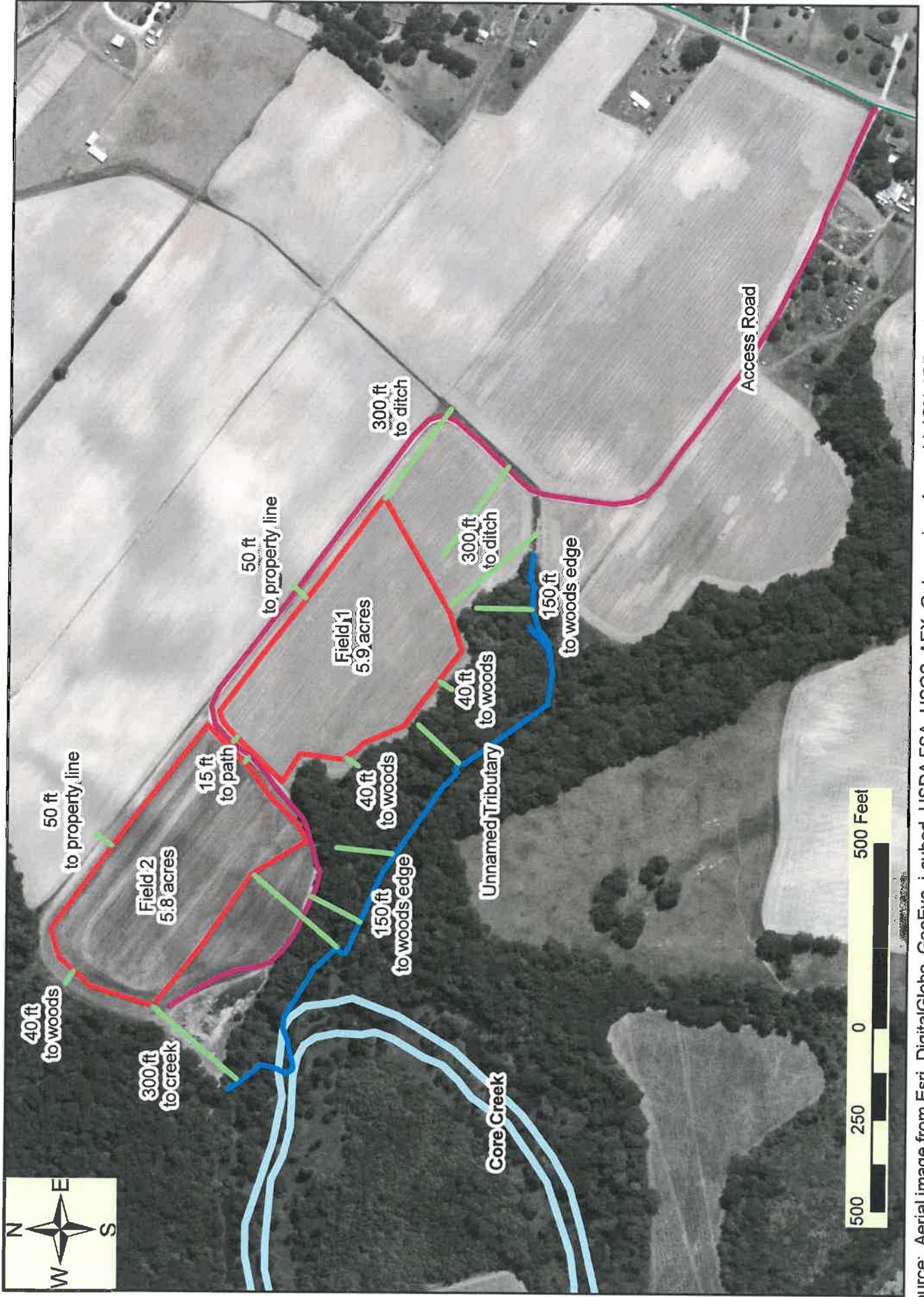
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SLAS-25-12



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.



PAT MCCRORY
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DONALD R. VAN DER VAART
Secretary

MICHAEL SCOTT
Director

May 31, 2016

Mr. Randy Register
R & D Septic Tank Service
117 Davis Road
Cove City, NC 28523

**RE: SLAS-25-12 Permit Renewal
R & D Septic Tank Service
SR 1480 in Craven County**

Dear Mr. Register:

The NC Division of Waste Management has reviewed your application to renew the operation of Septage Land Application Site, **Permit # SLAS-25-12**, in Craven County. Your application has been approved in accordance with NC Septage Management Rules and your permit, **SLAS-25-12**, 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's conditions. This permit shall expire on **May 4, 2020**. An application for permit renewal and your septage application logs should be submitted at least ninety (90) days prior to the expiration of your permit.

Please 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 this permit 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-25-12**."

Sincerely,

Chester R. Cobb, Soil Scientist
Division of Waste Management, NCDEQ

Enclosures

cc: Central Office
Clyde Milton Ipock, Jr, Landowner
Margaret Kirkpatrick, Landowner
Craven 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 Randy Register
Address 117 Davis Rd
Cove City NC 28523
Phone 252-633-3739 Cell 252-670-4031

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

3. Landowner Milton Ippock
Address 123 Lane Farm Rd
Cove City NC 28523

4. Site Location: County Craven State Road Number 1480
Directions to site: 6 miles west of Jasper on Hwy 55

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

For a permit renewal or modification, provide the following information:
Existing site permit number: 25-12 permit expiration date: 6-19-15

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 16.7 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): Craven Ag 25-08 Kinston WWTP
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 NOT APPROVED, NO SDTF FOR STORAGE & TREATMENT, CRE
 - (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 30 min for Septage 2 hrs for Grease Best to reduce hose to 1-inch and draw line into ~~study~~ truck slowly for a better mix
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): Pump truck with spreader bar on back to spread a swath 20 ft wide
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): This 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.

Randy Register
Signature***

3-17-15
Date

Randy Register
Print name

Operator 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.

Site Management addendum

- 5 Hydrated lime will be used to stabilize Septage. Enough lime will be used to bring PH up to at least $\text{PH } 12$ or more. Septage must be treated for at least 30 min.
- 6 Septage will be applied with pumper truck. Will use attachment on back of truck that can spread a width of about 20 feet uniformly. Septage will be spread evenly across field. Never spread waste on field when wet so not to make ruts greater than 3 inches or if field has standing water.

Landowner's Authorization to Operate a Septage Land Application Site

North Carolina Department of Environmental Quality
Division of Waste Management - Solid Waste Section
1646 Mail Service Center, Raleigh, NC 27699-1646

I, Clyde Milton Spoke, Jr. (name of site owner) hereby certify that I am the owner of 2.5 acres of land located 123 Lane Farm Rd Cove City NC 28523 and identified by 9-026-009 9-026-010 9-026-071 (book and page of recorded deed or tax map parcel) and that I agree to allow Randy Register (site operator name) to use said land for septage land application for a period of 5 yrs (length of time), beginning June 20-15 (give date) 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 Margaret Kilpatrick (names of all co-owners, or state none).

Signature of landowner Clyde Milton Spoke, Jr. Date 4-12-16
Signature of landowner Margaret Kilpatrick Date 4-12-16
Signature of landowner _____ Date _____

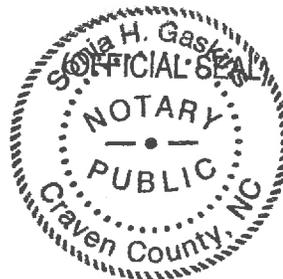
Sworn to and subscribed before me this 12th day of April, 2016.

[Signature]
(Notary Public)

My Commission expires: 10-31-2016

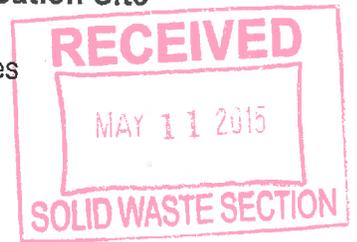
* 15A N.C. Admin. Code 13B Section .0800

** As required by Rule .0843



Landowner's Authorization 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, Clyde Milton Jordan (name of site owner) hereby certify that I am the owner of 25 acres of land located 123 Lane Farm Rd Cove City 28523 and identified by 9-026-010 (book and page of recorded deed or tax map parcel) and that I agree to allow Randy Register (name of site operator) to use said land for septage land application for a period of 5 yrs (length of time), beginning June 20-15 (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 Margaret Kilpatrick (names of all co-owners, or state none).

Signature of landowner Joseph H. Kilpatrick Date _____

Signature of landowner Margaret Kilpatrick Date _____

Sworn to and subscribed before me this 5th day of May, 20 15.

[Signature]
(Notary Public)

My Commission expires: 10-31-2016

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

** As required by Rule .0843



Landowner's Authorization 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, Clyde Milton Spork (name of site owner) hereby certify that I am the owner of 18 acres of land located H. 55 West of New Bern - N C and identified by ID-9026 (book and page of recorded deed or tax map parcel) and that I agree to allow Randy Register (name of site operator) to use said land for septage land application for a period of 5 years (length of time), beginning 6-19-15 (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 Clyde Milton Spork (names of all co-owners, or state none).

Signature of landowner Mary Mielert deceased Date 3-16-2015

Signature of landowner Joseph J Kilpatrick Date 3-16-2015

Sworn to and subscribed before me this 16th day of March, 20 15.

[Signature]
(Notary Public)

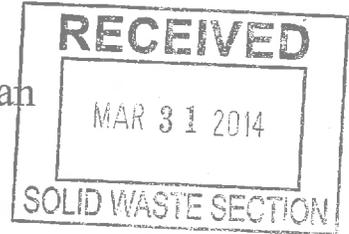
My Commission expires: 10-31-2016

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

** As required by Rule .0843



Septage Nutrient Management Plan



For

R & D Septic Tank Service

For SLAS-25-01 25-12

Craven County, NC

Randy Register

117 Davis Road

Cove City, NC 28523

(252) 670-4031

(renewal of SLAS 25-01)

Purpose: The purpose of this document is to renew/update the septage nutrient management plan of SLAS #25-01 and to provide updated compliance with state regulations.

Existing Site Conditions: The relevant property lines, approved site limits, natural geographic conditions and known site improvements are incorporated from the prior plan or application permit. Please note the existing site is permitted for approximately 15 acres but the FSA map has approximately 20 acres. Application should reflect the actual permitted acres and buffer within the farm.

A. General Information:

1. Septage will be sampled at least three (3) times per year for waste analysis. These samples will be used to monitor nutrient loadings. The recommended procedure for collecting the samples is as follows:
 - a) Make sure the septage has been stabilized at a pH of 12 with hydrated lime for 30 minutes (domestic septage) or for 2 hours (grease trap septage).
 - b) Set out some pans in the path where the truck will be disposing the septage. Plastic pans are recommended. Do not use zinc plated or galvanized metal pans; the metals content will be distorted.
 - c) Mix contents of 3-4 pans and fill a 16-20 ounce plastic bottle $\frac{3}{4}$ full. Squeeze out some of the excess air and label the bottle with your name and septage sample identification.

If samples are collected over a couple of days or from different truckloads, it makes for a more representative sample; however, samples should be kept cool. Only one sample is needed, as long as it is mixed from several different sub-samples.

Samples should be delivered to the NCDA&CS. Bottles need to be clearly labeled as a household-lime stabilized- septage sample (waste code MLS). For extra security, place the bottle in a plastic freezer bag. The form and check can be put in an envelope and placed in the bag with the bottle. The NCDA&CS Septage Sample Cover Sheet (blank

lbs/ac if drilled or 120 lbs/ac if broadcast. Seeding rates for other small grains or small grain mixtures should follow rates suggested by *Planting Guide for Forage Crops in North Carolina* to obtain the proper crop stand density required to meet the realistic yield expectations. Failure of sufficient germination will require reseeding in affected areas. Planting dates for millet will be between April 20th – June 30th and for small grains, between September 1st and November 15th.

- THE SEEDING RATE FOR MILLET IS 15 TO 20 LBS/AC (DRILLED). CRC

2. If both fields are not used for septage, a different crop may be grown as long as the crop to be grown is not going to be used for human consumption.

3. Weed control

Well-managed millet and rye are competitive with most perennial and summer annual weeds. If weeds become a problem, especially during establishment, contact your technical specialist for assistance and/or the most recent *North Carolina Agricultural Chemicals Manual* for herbicides to control specific weeds.

C. Nitrogen needs for crops grown:

RYE = Realistic Yield Expectation

N App. Rate = Suggested nitrogen application rate

Field	Crop (as hay)	RYE tons/acre	N App. Rate lbs/dry ton	Total lbs N/ac	*Gal/ac/yr	Adjusted Gal/ac/yr	Actual lbs N/ac
1	Millet	4.5	50	225	86,500	31,000	81
2	Millet	4.5	50	225	86,500	31,000	81
1	Rye/small grain	1.0	50	50	19,000	19,000	49
2	Rye/small grain	1.0	50	50	19,000	19,000	49

* This column represents the number of gallons needed to meet the total nitrogen needs of the crops. The maximum permitted application is 50,000 gal/acre/yr, with a maximum winter monthly application of 5,000 gal/acre.

Crops will be harvested as hay and removed from site for feed, bedding, or other approved uses. The **Adjusted gal/acre/year** column represents what can be applied so as not to exceed the maximum permitted application rate of 50,000 gal/acre/yr.

It is understood that weather conditions can cause the winter crop to mature earlier or later than the specified field harvest date. Regulations mandate that a crop be planted or break dormancy within 30 days of any application of septage. No crop can be harvested until at least 30 days after the last septage application to that crop if it is to be used as forage or bedding. Harvests should, therefore, be staggered at intervals among the fields such that at least one is available for application while the others go through the 30 day rest period.

E. Application method:

The preceding information is based on septage being **evenly applied** over the entire permitted site by pumper truck with a splash plate. If the entire area within a field is not covered each time, markers or some form of consistent rotation are needed to ensure that one portion of the field is not more heavily loaded than other portions of the field. This can be accomplished by dividing each field into sub-fields.

An application record for each sub-field is highly recommended. Waste record forms SLUR-1 and SLUR-2 can be used for record keeping. These and additional forms are available from the local Cooperative Extension office.

F. Additional fertility requirements:

Optimum nitrogen uptake will not occur if the concentrations of other nutrients limit the crop growth. Septage does not provide adequate supplies of all necessary nutrients over a prolonged period of time, so periodic supplements may be required. These maintenance applications should be based on annual soil test analyses. The soil samples should be taken in late fall to early winter. **DO NOT FOLLOW THE NITROGEN RECOMMENDATION FROM THE SOIL TEST REPORT!** Rather, nitrogen rates are based upon realistic yield expectations outlined within this waste application plan.

A separate soil sample should be collected for the buffer areas. Commercial fertilizer applications to the buffers are to be based on the soil sample results. If you have questions, feel free to ask a Certified Waste Management Plan person in the local Cooperative Extension or Soil & Water Conservation offices. You can also contact Tim Hall, NCD&CS Regional Agronomist, for stand health questions (910-324-9924).

G. Harvest of the crops and their use:

1. Rye will be harvested between April and May. Millet shall be cut for hay when it reaches a height of 18 inches. Remaining unharvested millet stubble will not be shorter than 6 inches. The last harvest of millet should be no later than October 15th. Both crops will be baled and transported off site and used as livestock feed or other approved uses.
2. A 30-day waiting period must be observed between the last application of septage and harvest if the material is to be used as livestock feed or bedding; therefore, an application rotation will need to be established among the fields.
3. Record keeping will be an important factor in documenting proper application. This cycle will continue until your next plan update or other instructions from either DENR or a Certified Waste Management Plan person. Any changes are to be put into writing, placed in your plan file, and copies given to the appropriate agencies.

the winter small grain crop. If soil compaction should become evident (ponding of applied septage), use a subsoiler to loosen the soil and improve infiltration. Field traffic should be kept to a minimum.

3. Maintain vegetation on swales, ditch channels, and all other field exits for stormwater runoff. Bermudagrass buffers at least 50 feet wide should be maintained around the site. A 200 ft buffer is to be maintained in areas adjacent to streams. If additional control or screening is needed, contact the Soil & Water Conservation office to see if the site qualifies for Cost Share assistance. They may be able to help you get trees or shrubs.
4. Extra care and control may be needed on those areas with increased slope. If possible, field edges should be shaped to detain runoff.

Nutrient management and erosion control plans are not static instruments; they are blueprints for planning and optimizing the defined crop use goals. As crop use goals or site conditions change, the management plan may need to be amended. Information sources, such as Cooperative Extension or Soil & Water Conservation, should be used on an ongoing basis.

Submitted by: Randy H. Ripstein Date: 5-1-14

Plan prepared by: Mike Carroll Date: 3-21-14

Address: Mike Carroll, Extension Agent, Craven County
North Carolina Cooperative Extension
300 Industrial Drive
New Bern, NC 28562

Phone: (252) 633-1477
Fax: (252) 633-2120
email: mike_carroll@ncsu.edu

Attachments: This is an update of the plan written 05/11/11 by the previous owner, L. E. Wainwright. All aerial photos, maps, booklets, and forms from the prior plan should be kept and attached to this plan.

Please sign both copies and send one copy to:

*Chester Cobb, Soil Scientist
NC DENR, Division of Waste Management
1646 Mail Service Center
Raleigh NC 27699-1646*

SEPTAGE LAND APPLICATION LOG COVER SHEET



Site Operator: Randy Register
SLAS Permit #: 25-12
Site Location: 123 Lane Farm Rd Cove City N.C. 28523
(street address for the site or latitude and longitude)
Number of acres permitted: 15
Permitted application rate: 50,000
(gallons septage per acre per year)
Crop(s): Millet, Rye/Smallgrain
Crop nitrogen requirement(s): Millet 225 Rye 50
(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."

Randy Register
(signature)

3-17-15
(date)