

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

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

Cannon's Septic Tank Service
Alton J. Cannon
PO Box 65
Grifton, NC 28530

is hereby issued a permit to operate a Septage Land Application Site with permit # **SLAS-74-08** on SR 1916 in Pitt County at approximate position 35.35508° N latitude and -77.35309° 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 3/15/2012

Martin A. Gallagher
Martin A. Gallagher, Branch Head
Solid Waste Section

Operator: Alton J. Cannon
SLAS #: 74-08
County: Pitt

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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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.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 Alton J. Cannon and approved by the Division of Waste Management. The 15.7 acre site shall consist of three fields identified as Field 6 with 6.1 acres, Field 7 with 3.0 acres, and Field 8 with 6.6 acres. All fields have been established in hybrid bermudagrass. Any areas that drop below 80% coverage in bermudagrass shall be resprigged in March or seeded in Cheyenne bermudagrass at a broadcast rate of 15 lbs/ac in April or May. The bermudagrass shall be cut and baled as hay every four to five weeks or whenever it reaches 12 to 15 inches in height. At least three bermudagrass harvests shall be made each year. The hybrid bermudagrass shall be overseeded in rye each year during October or early November at a seeding rate of 120 lbs/acre, broadcast, or 100 lbs/acre, drilled. The 30-day waiting period between the last application of septage and the harvest of a crop shall be met by alternating septage applications to another permitted 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 Alton J. Cannon in such a manner as to prevent the migration of wastes off of the designated waste receiving site. A buffer of bermudagrass and ryegrass shall be maintained around the perimeter of each field. The required buffers from the permitted fields shall be 10 feet to the surrounding woods, 25 feet to any paths, and 50 feet to any property lines or ditches. Wooded areas adjacent to all permitted fields shall remain undisturbed. 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 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 pumping, portable toilet waste, and commercial/industrial septage. Commercial/industrial septage shall only be land applied after the waste from each source is tested and the results approved by the Solid Waste Section.** 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 15.7 acres that are available for the land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year for a total, maximum annual application amount of 785,000 gallons. This application rate assumes equal septage distribution, on an annual basis, over the active permitted area. Application amounts to the fields shall not exceed the maximum annual application rate or the monthly rates listed in the approved nutrient management plan.

Operator: Alton J. Cannon
SLAS #: 74-08
County: Pitt

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8. An approved above ground septage detention system with a minimum design capacity of 15,000 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.
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 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 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 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 nontransferable.
15. **This permit shall expire on March 15, 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 (unless a perennial forage buffer is established), 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 74-08



Source: 2010 NAIP Color Imagery, NCDA; site boundaries, NC DENR Division of Waste Management.
Map created by NC DENR Division of Waste Management, Compost & Land Application Branch for permitting purposes only.



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

April 10, 2012

Mr. Alton J Cannon
Cannon's Septic Tank Service
PO Box 65
Grifton NC 28530

**RE: SLAS-74-08 Permit Renewal
Cannon's Septic Tank Service
SR 1916 in Pitt County**

Dear Mr. Cannon:

The NC Division of Waste Management has reviewed your application for renewal of septage land application site permit, **SLAS-74-08**, in Pitt County. Your application has been approved in accordance with NC Septage Management Rules and your permit, **SLAS-74-08**, 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, grease trap pumpings, portable toilet waste, and commercial/industrial septage. Disposal of any other type of waste at this site is prohibited.
- **Condition 7.** States that there are approximately 15.7 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 785,000 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 March 15, 2017.** 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.

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) 707-8283. When communicating to the Division about this permit, please refer to it as "**SLAS-74-08**"

Sincerely,



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

Enclosures

cc: Central Office
June Whitley Gillikin, Landowner
Michael Garris, Landowner
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 Cannon's Septic Tank Service, Inc

Address P.O. Box 65 / 6853 Brooks Ally

Grifton NC 28530

Phone (252) 524-4282

2. Contact person for site operation (if different from applicant): Alton J. Cannon

Title or position President Phone _____

Address Same as above

3. Landowner June Whitley Gillikin Michael Garris

Address 2716 S. Jim Minor Rd. 4200 Montague Ave.

Mebane, NC 27302 Ayden NC 28513

4. Site Location: County Pitt State Road Number 1916

Directions to site: Hwy. 118 east of Grifton, approximately 5 miles then right on Boss
McLawnhorn Rd., half mile 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: 74-08 permit expiration date: 08/27/11

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 15.7
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).

(over)

Alton J. Cannon

Print name

President

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.

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
401 Oberlin Rd, Ste. 150, Raleigh, N.C. 27605

I, June Gillikin (name of site owner) hereby certify that I am the owner of 9.1 acres of land located on Boss McLawhorn Road and identified by Parcel Number 35720 (book and page of recorded deed or tax map parcel) and that I agree to allow Alton J. Cannon of Cannon's Septic Tank Service, Inc. (name of site operator) to use said land for septage land application for a period of 5 years (length of time), beginning approval (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 _____ (names of all co-owners, or state none).

Signature of landowner June Gillikin Date 5-13-11

Signature of landowner _____ Date _____

Sworn to and subscribed before me this 13 day of May, 20 11.

Amelia J. Shaw
(Notary Public)

My Commission expires: 3-8-2016

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

** As required by Rule .0826



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
401 Oberlin Rd, Ste. 150, Raleigh, N.C. 27605

I, Michael Garris (name of site owner) hereby certify that I am the
owner of 6.6 acres of land located on Boss McLawhorn Road
_____ and identified by Parcel Number 24787

(book and page of recorded deed or tax map parcel) and that I agree to allow Alton J. Cannon of
Cannon's Septic Tank Service, Inc. (name of site operator) to

use said land for septage land application for a period of 5 years (length of time),
beginning _____ approval _____ (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 X M. Cannon

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

Signature of landowner X M. Cannon Date 5/23/11

Signature of landowner X M. Cannon Date 5/23/11

Sworn to and subscribed before me this 24th day of may, 20 11.

Jennifer L. Rice
(Notary Public)

My Commission expires: September 13, 2014

(OFFICIAL SEAL)

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

** As required by Rule .0826

Cannon's Septic Tank Service

Nutrient Management Plan For Septage Application to June Whitley Gillikin Site (05/05/11)

A. General Information:

1. Periodic sampling (at least 1/year) of the septage will be conducted for waste analysis
2. The site contains two fields of 6.25 acres (field 6) and 4.07 acres (field 7)
3. The dominant soil series at this site is Alaga (AgB).
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. When land application is not suitable at this site, a 10,000-gallon detention tank is available for temporary storage.

B. Crops to be grown and approximate planting times:

1. The site is established in Tift 44 hybrid Bermuda grass
2. In October or early November each year the Bermuda grass will be over seeded with rye at a drilled deeding rate of 100 lbs/acre.
3. Any areas that should have less than 80% ground cover by Bermuda grass will be seeded with Cheyenne Bermuda grass at a broadcast seeding rate of 15 albs/acre.

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.

<u>Crop (cut for hay)</u>	<u>R.Y.E</u>	<u>N app. Rate</u>	<u>lbs N/ acre</u>
Hybrid Bermuda grass	4.0 tons/acre	x 50lbs N	= 200
Rye	1.0 tons/acre	x 50lbs N	= 50
		TOTAL	= 250

*R.Y.E. for Cheyenne Bermuda is 90% of hybrid Bermuda grass

D. Relative application rate for site:

Month	Application Rate
January	Low
February	Low
March	High
April	Medium
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.
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 septage being evenly applied over the 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 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. A combination of herbicides and/or mowing will be used for weed control.

3. Bermuda grass will be cut and baled for hay at four to five week intervals or when it is 12 to 15 inches tall, whichever comes first. Three to four harvests can be expected per season.
4. Rye will be cut and baled for hay in the spring.
5. A rotation will be established so that this site does not receive septage within 30 days of hay harvest. Septage applications will be at other Cannons Septic Tank Service site during these periods.

H. Soil Erosion Plan:

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

Submitted by: Alta J. Cannon Date 5-24-11
Site Operator

Plan Prepared by: Andrew Burlingham Date 5-5-11
Andrew Burlingham
Agricultural Extension Agent
403 Government Circle - Suite 2
Greenville, NC 27834
252-902-1703

Cannon's Septic Tank Service

Nutrient Management Plan For Septage Application to Michael Corey Harriss Garris Site (05/05/11)

I. General Information:

6. Periodic sampling (at least 1/year) of the septage will be conducted for waste analysis
7. The site contains approximately 7.37 acres (feild 8).
8. The dominant soil series at this site is Alaga (AgB).
9. 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.)
10. When land application is not suitable at this site, a 10,000-gallon detention tank is available for temporary storage.

J. Crops to be grown and approximate planting times:

4. The site is established in Tift 44 hybrid Bermuda grass
5. In October or early November each year the Bermuda grass will be over seeded with rye at a drilled deeding rate of 100 lbs/acre.
6. Any areas that should have less than 80% ground cover by Bermuda grass will be seeded with Cheyenne Bermuda grass at a broadcast seeding rate of 15 albs/acre.

K. 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.

<u>Crop (cut for hay)</u>	<u>R.Y.E</u>	<u>N app. Rate</u>	<u>lbs N/ acre</u>
Hybrid Bermuda grass	4.0 tons/acre	x 50lbs N	= 200
Rye	1.0 tons/acre	x 50lbs N	= 50
		TOTAL	= 250

*R.Y.E. for Cheyenne Bermuda is 90% of hybrid Bermuda grass

L. Relative application rate for site:

Month	Application Rate
January	Low
February	Low
March	High
April	Medium
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.
Cumulative application rate is not to exceed the permitted application rate.
Annual application rate is not to exceed 50,000 gallons per acre.

M. Application Method:

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

N. Additional Fertility Requirements:

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

O. Harvest of the crops and their use:

6. All forages will be cut and baled for hay to be used for cattle feed.
7. A combination of herbicides and/or mowing will be used for weed control.

8. Bermuda grass will be cut and baled for hay at four to five week intervals or when it is 12 to 15 inches tall, whichever comes first. Three to four harvests can be expected per season.
9. Rye will be cut and baled for hay in the spring.
10. A rotation will be established so that this site does not receive septage within 30 days of hay harvest. Septage applications will be at other Cannons Septic Tank Service site during these periods.

P. Soil Erosion Plan:

4. The site will be covered with vegetation (hybrid Bermuda grass, or hybrid Bermuda grass over seeded with rye).
5. Buffer areas will be planted in Bermuda grass/rye.
6. Erosion and runoff should be controlled by the vegetation.

Submitted by:  Date 5-24-11
Site Operator

Plan Prepared by:  Date 5-5-11
Andrew Burlingham
Agricultural Extension Agent
403 Government Circle - Suite 2
Greenville, NC 27834
252-902-1703

AUTHORIZATION TO DISCHARGE SEPTAGE TO A WASTEWATER
TREATMENT FACILITY

North Carolina Department of Environmental and Natural Resources
Division of Waste Management - Solid Waste Section
401 Oberlin Rd. Ste. 150, Raleigh, N.C. 27605

Fee assessments and waste determinations will be required at the discretion of the wastewater treatment facility. The facility has the ultimate prerogative to deny discharges of any wastes to the incoming wastewater stream.

I, Charles Cauley, Jr- KRWRF
(Plant Operator and Name of Plant)
P.O. Drawer 339, Kinston, NC 28502
(Address)

(252) 939-3375 do hereby authorize Scott Maready
(Phone Number) (Owner/Operator of Septage Management Firm)

of Cannon's Septic Tank Service
(Septage Management Firm Name)

to dispose of domestic septage X, portable toilet waste X.

grease septage (grease trap pumpings) _____ commercial/industrial septage _____ from

Lenoir and surrounding counties
(County or other Geographic Area)

at the above named wastewater treatment facility. Septage shall be discharged at:
Kinston Regional Water Reclamation Facility - 2101 Becton Farm Rd
Briery Run Lift Station - Highway 55 East
(Location)

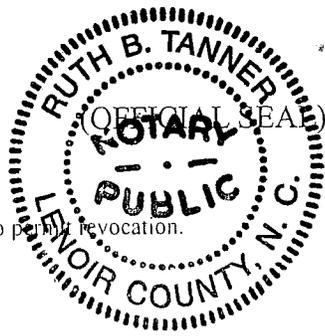
between the hours of 8:00 a.m. to 4:00 p.m. (Monday thru Friday)

This authorization shall be valid until December 31, 2011

Signed Charles Cauley, Jr Date _____
(Facility Operator)

Sworn to and subscribed before me this 29th day of November, 2010

Ruth B. Tanner My commission expires: 3/15/15
~~Mary Elizabeth Poythress~~ Ruth B. Tanner



Note: Falsification of this document by the septage management firm shall lead to public revocation.

Septage Land Application Log Cover Sheet



Site Operator: Alton J. Cannon

SLAS Permit #: 74-08

Site Location : N 35 20 57 W 77 20 48

(street address for the site or latitude and longitude)

Number of acres permitted: 15.7

Permitted application rate: 785,000/yr

(gallons septage per acre per year)

Crop(s) : Hybrid Bermudagrass Rye

Crop nitrogen requirement(s): Bermudagrass-200 lbs. N-ac. Rye-50 lbs. N-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."

Alton J. Cannon
(signature)

5-24-11
(date)