



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Pat McCrory
Governor

Dexter R. Matthews
Director

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**

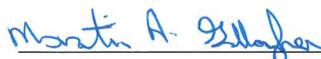
Cannon's Septic Tank Service, Inc.
Alton J. Cannon
PO Box 65
Grifton, NC 28530

is hereby permitted to operate Septage Land and Application Site with permit # **SLAS-74-15** located on SR 1753 in Pitt County at approximate position 35.37653° N latitude and -77.34805° W longitude. This site is permitted only for operations that are conducted in accordance with the representations made in the approved application, with all conditions attached to this permit, and with all of the provisions of 15A NCAC 13B.0800 -- Septage Management. Failure to operate as permitted may result in the Department suspending or revoking this permit, initiating action to enjoin the unpermitted operation, imposing administrative penalties, or invoking any other remedy as provided in Chapter 130A, Article 1, Part 2 of the North Carolina General Statutes.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in effect at the time of review.

Date Issued

2/10/2014



Martin A. Gallagher, Branch Head
Composting & Land Application Branch

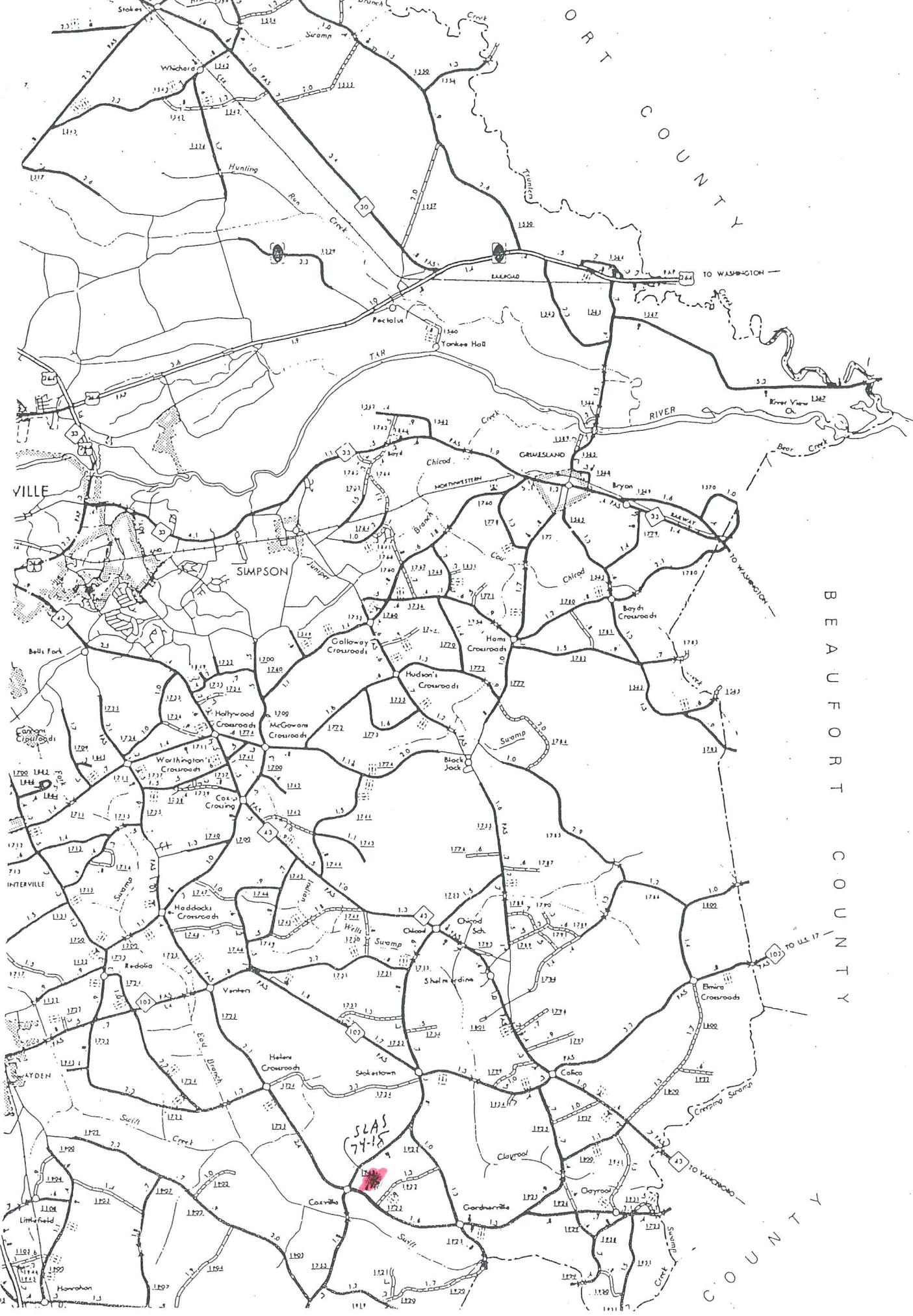
1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Telephone 919-707-8200 \ Internet <http://portal.ncdenr.org/web/wm/sw>

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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.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 Alton J. Cannon and approved by the Division of Waste Management. The 8.8 acre site shall remain established in hybrid bermudagrass. Areas where the bermudagrass stand falls below 80% in coverage shall be replanted with Cheyenne Bermudagrass at a broadcast seeding rate of 15 lbs/ac. In October to early November of each year, the fields shall be overseeded with rye at a seeding rate of 100 lbs/ac drilled. The rye shall be cut and baled for hay in early spring. 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 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 permitted fields on this and other permitted sites. 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 soil 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. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations, and / or monitoring requirements the Division deems necessary to adequately protect the environment and public health.

6. **This site is only permitted for the land application of domestic septage, grease trap pumpings (grease septage), 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, including portable toilet waste, shall be raised to a pH of 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 a pH of 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 8.8 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 of 440,000 gallons. This application rate assumes equal septage distribution, on an annual basis, over the entire permitted area. Application amounts to the fields shall not exceed the maximum annual application rate or the monthly rates as listed in the approved nutrient management plan for the site.
8. An approved above ground septage detention system with a minimum design capacity of 9,000 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 shall not be applied during periods of high soil moisture. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.

12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.
13. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the Permittee or an employee of the firm named in this permit shall discharge septage at this site without prior appropriate notification and written approval from the Division.
14. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.
15. **This permit shall expire on December 21, 2017.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838 (e) (1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17 (b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas that can be used for land application of septage shall be maintained at least 500 feet from any existing wells, residences, places of business, or places of public assembly. Septage shall not be disposed of within 50 feet of any property line or within 100 feet of any ditch.



ORT COUNTY

BEAUFORT COUNTY

COUNTY

SLAS
74-18

SLAS-74-15



Source: Bing Maps aerial imagery, ESRI, (c) 2010 Microsoft Corporation and its data suppliers; site boundary, NC DENR Division of Waste Management.

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

crc, Dec. 2013



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

March 10, 2014

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

**RE: SLAS-74-15 Permit Renewal
Cannon's Septic Tank Service, Inc.
SR 1753 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-74-15**, in Pitt County. Your application has been approved in accordance with NC Septage Management Rules and your permit, **SLAS-74-15**, 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 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 septage or waste at this site is prohibited.
- **Condition 7.** States that there are approximately 8.8 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 volume of 440,000 gallons.** These rates along with the monthly rates listed in the nutrient management plan are not to be exceeded for a particular field or the entire site.

CONTINUE ON BACK

- **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.
- **Condition 15.** **This permit is set to expire on December 21, 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 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-74-15.**”

Sincerely,



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

Enclosures

cc: Central Office
Marie Mallol, Landowner
Dorothy Cannon, 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
1646 Mail Service Center, Raleigh, NC 27699-1646



I. Site and Operator Information

1. Applicant Cannon's Septic Tank Service, Inc
Address P.O. Box 65/6853 Brooks Alley
Grifton NC, 28530
Phone (252) 524-4282

2. Contact person for site operation (if different from applicant): Alton J. Cannon
Title or position Owner__ Phone (252)559-9986
Address same as above

3. Landowner Marie Mallol Dorothy Cannon
Address 6461 Providence Lane 7176 Stokestown-St. Johns Rd
Grifton NC, 28530 Ayden NC 28513

4. Site Location: County Pitt State Road Number 1753
Directions to site: Turn off Hwy. 11 onto Hanrahan Rd., East. At end of road turn left ¼ mile on right.

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

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

Existing site permit number: 74-15 permit expiration date: 12-21-12

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 9.0 _____ 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)

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): Kinston-Briery Run Lift Station, Fremont-D&D Septic, Sdft 74-13, 74-15, 74-17

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 pumping X
 - (c) Portable toilet waste X
 - (d) Commercial / Industrial septage X
5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): Hyd. Lime put in each load before land applying. Ph of 12 held for 30 min. prior to land applying septage and a PH of 12 held for 2 hrs. before land applying septage/grease mixture. If PH in any case does not reach 12 then more hyd. Lime will be added until Ph reaches 12 for specified amount of time.
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): We will spread from 2 trucks equipped with automatic shut-off valve inside the trucks. We have widened and redesigned our spoons to provide a wider and finer application. All land application will be done from a moving truck with a steady speed to provide an even land application.

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): Since the site is in agriculture, the endangered species law does not apply.

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.

Scotty Glenn Maready
Signature***

8-30-12
Date

Scotty Glenn Maready
Print name

V. pres
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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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, Marie Mallol (name of site owner) hereby certify that I am the owner of 12.43 acres of land located Farm (Farm 2153) SR 1753 Pitt Co. and identified by 145, pg 294 (book and page of recorded deed or tax map parcel) and that I agree to allow Cannons Septic Tank Service (name of site operator) to use said land for septage land application for a period of 5 years (length of time), beginning 12-21-12 (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 John Mallol (names of all co-owners, or state none).

Signature of landowner Marie C. Mallol Date 12.21.13

Signature of landowner John Mallol Date 12.21.13

Sworn to and subscribed before me this 21 day of December, 2013.

Jennifer S. Rice
(Notary Public)

(OFFICIAL SEAL)

My Commission expires: September 13, 2014

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



I, ~~Marie Mallot~~ DOROTHY MULLER CANNON (name of site owner) hereby certify that I am the owner of 9 acres of land located (Farm # 2153) SR 1753 Pitt County and identified by ~~Book 145, Pages 204~~ BOOK DC78, PAGE 889 (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 or 12-21-12 (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 Dorothy Cannon (names of all co-owners, or state none).

Signature of landowner Dorothy Cannon Date 8-16-2012

Signature of landowner Marie Mallot Date 8-16-2012

Sworn to and subscribed before me this 16 day of August, 20 12.

Jennifer S. Rice
(Notary Public)

(OFFICIAL SEAL)

My Commission expires: September 13, 2014

* 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
Cannon Heirs Site (7415)
(8/27/12)**



I. General Information:

6. Periodic sampling (at least 1/year) of the septage will be conducted for waste analysis
7. The site contains approximately nine acres.
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 bermudagrass and/or Cheyenne bermudagrass
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. Ammonium Sulfate may be applied as part of the total nitrogen rate to help lower soil pH to an acceptable range.

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: Alton Cannon Date 8-29-12
Site Operator

Plan Prepared by: Andrew Burlingham Date 8-25-12
Andrew Burlingham
Agricultural Extension Agent
403 Government Circle - Suite 2
Greenville, NC 27834
252-902-1703

SEPTAGE LAND APPLICATION LOG

CERTIFICATION

Site Operator: Alton J. Cannon

SLAS Permit #: 74-15

Site Location: 35-22-35 latitude 77-20-52 longitude
(street address for the site or latitude and longitude)

Number of acres permitted: 9.0

Permitted application rate: 450,000
(gallons septage per acre per year)

Crop(s): Rye

Crop nitrogen requirement(s): Bermudagrass-200lbs. 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."

Scotty Glenn Mearns
(signature)

8-30-12
(date)

SLAS Permit Review

Permit #: 74-15
Application Received: 9-5-12

NEW RENEWAL

ISSUED: 1-8-08

MODIFICATION
EXPIRES: 12-21-12

APPLICATION

COMPLETE

LANDOWNER AUTHORIZATION FORM

FIELD SPLIT INTO 2 PARCELS
- FIELD SPLIT BETWEEN 2 LANDOWNERS (MALLOL & CANWOOD)
MALLOL RECEIVED ON 12-27-13

MAPS

ON FILE

SYRR FROM 12-21-12

NUTRIENT MANAGEMENT PLAN

Crops: BERMUDAGRASS / SG. OVERSEED

- Planting:
- 80% coverage (replanting guidelines):
- Harvest:
- Soil Erosion and Runoff Control Plan:

Fields: 1 Acres: 8.8 Maximum Annual Application Amount: 440,000 gal.

RECORDS

- Septage Land Application Log Cover Sheet
- Overapplied

- NO OVERAPPLICATIONS

COMPLIANCE ISSUES AND OTHER COMMENTS (NOV's and NOD's)

- No NOV's

SLAS-74-15

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