



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Dexter R. Matthews

Director

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

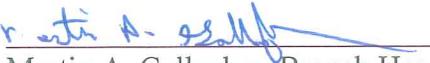
**PERMIT TO OPERATE A SEPTAGE LAND
APPLICATION SITE**

Brock's Septic Tank Service, Inc.
Eldridge R. Brock
2899 Summerlins Crossroads Rd
Mt. Olive, NC 28365

is hereby permitted to operate Septage Land and Application Site with permit # **SLAS-96-11** located on SR 1120 in Wayne County at approximate position 35.26879° N latitude and -77.96276° 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 3/5/2014


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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Eldridge R. Brock and approved by the Division of Waste Management. The 8.1-acre site shall be divided into two fields as Field 1 (3.7 acres) and Field 2 (4.4 acres). Both fields shall remain established in Hybrid Bermudagrass and overseeded with annual ryegrass in September of each year at a seeding rate of 30 pounds per acre. Areas where the bermudagrass stand drops below 80% in coverage shall be re-sprigged with Hybrid Bermudagrass at a planting rate of 30 to 40 bushels per acre in March or April. The bermudagrass shall be cut and removed whenever it reaches approximately 12-15 inches in height or roughly every 4 weeks. The ryegrass will be cut and removed from the site in April. The harvested vegetation is to be destroyed. Should the vegetation be harvested for animal feed, a 30-day waiting period between the last application of septage and the harvest of any crop shall be observed. All discharges shall occur within the permitted area and shall be 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 Eldridge R. Brock 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, and grease trap pumpings.** 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 8.1 acres that are available for 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 405,000 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 8,000 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 31, 2014.** 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.

SLAS-96-11



Source: 2010 NAIP Color Imagery, NCDA; site boundary, 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

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March 12, 2014

Mr. Eldridge Ray Brock
Brock's Septic Tank Service, Inc.
2899 Summerlins Crossroads Rd.
Mt. Olive, NC 28365

**RE: SLAS-96-11 Permit Renewal
Brock's Septic Tank Service, Inc.
SR 1120 in Wayne County**

Dear Mr. Brock:

The NC Division of Waste Management has reviewed your application to renew Septage Land Application Site Permit, #**SLAS-96-11**, in Wayne County. Your application has been approved in accordance with NC Septage Management Rules and your permit, #**SLAS-96-11**, is enclosed. When communicating to the Division about this permit, please refer to it as "**SLAS-96-11**."

Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. The permitted maximum annual application rate for this site is stated within Permit Condition 7. Also, an application for permit renewal must be submitted at least ninety (90) days prior to the permit expiring as stated within Permit Condition 15. **The enclosed permit will expire on December 31, 2014.**

Please read all permit conditions carefully. Violations to the NC Septage Management Rules or this permit may result in administrative penalties of up to \$15,000 per violation per day in accordance with NC General Statute 130A-22. If you have any questions concerning your permit or septage in general, please do not hesitate to contact me at (919) 707-8283.

Sincerely,

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

Enclosures

cc: Central Office
Calvin Hodgin, Landowner
Wayne County Health Department

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SLAS Permit Review

Permit #:

SLAS-96-11

Application Received:

9-27-13

NEW

RENEWAL

MODIFICATION

ISSUED: 2-6-13

EXPIRES: 12-31-13

APPLICATION

- COMPLETE

LANDOWNER AUTHORIZATION FORM

GOOD FOR 1-1-14 THRU 12-31-14

MAPS

ON FILE

NUTRIENT MANAGEMENT PLAN

Crops:

BERMUDAGRASS / S.G. OVERSEED

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

Fields: 2 Acres: 8.1 Maximum Annual Application Amount: 405,000 gal.

FIELD 1 → 3.7 ACRES
FIELD 2 → 4.4 ACRES

RECORDS

- Septage Land Application Log Cover Sheet
- Overapplied

NO OVERAPPLICATIONS

COMPLIANCE ISSUES AND OTHER COMMENTS

(NOV's and NOD's)

- NO VIOLATIONS ISSUED FOR 2013
- NO ISSUES NOTED ON LAST INSPECTION CONDUCTED ON 11-6-13

ANNUAL SUMMARY

SLAS 9611

	Pumped / Applied	Field Maximum
Septage	320,550	
Grease	12,550	
PTW	0	
Field 1	159,375	185,000
Field 2	173,725	220,000
Field 3	0	0
Field 4	0	0
Field 5	0	0
Field 6	0	0

Maximum Annual Application Rate
 405,000

Total Amount Applied to Site
 333,100

Monthly Application Totals

	January	February	March	April	May	June	July	August	September	October	November	December
	17,200	18,900	16,000	51,200	46,200	27,500	42,600	28,000	20,850	31,625	16,525	16,500

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 Brock's Septic Tank Service Inc. Eldridge Ray Brock
Address 2899 Summerlins Crossroads Rd.
Mt. Olive, N.C. 28365
Phone 919-658-2832

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

3. Landowner Calvin Hodgin Landmark Realty
Address 2522 East Ash St.
Goldsboro, N.C. 27530

4. Site Location: County Wayne State Road Number 1120
Directions to site: Take sleepy Creek Rd. from Hwy 117 to Dudley go to
Arrington Bridge Rd. and sleepy Creek intersection last path on left
before intersection.

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

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

Existing site permit number: slas 96-03 permit expiration date: 12-31-13

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 9.2 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 Included
2. Soil Erosion and Runoff Control Plan swell around facility to contain any spills and leaks
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): Detention facility permit # 96-11
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 ✓
 - (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): Domestic Septage will be treated with lime + brought up to a Ph of 12 and held at 12 for 30mins before application. Grease will be mixed with Septage at a rate of at least 1-1 and treated the same as septage but held at Ph of 12 for 2hrs before application.
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): Spread evenly across the field using a moving vehicle to allow for even distribution on the field.
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 site is 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.

Eldridge Ray Brock
Signature***

9-23-13
Date

Eldridge Ray Brock
Print name

President
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.

Limited Liability Company 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 hereby certify that the undersigned limited liability company, Landmark Legacy, L.L.C. owns 9.2 acres of land located Indian Springs Township, Wayne County off Arrington Bridge Rd. & Sleepy Creek Road and identified by Parcel #350 5934 828 (book and page of recorded deed or tax map parcel) and that the limited liability company agrees to allow Eldridge Ray Brock (operator name) to use said land for application of septage for a period of one year (indicate time period) beginning 1-1-14 to 12-31-14 (give date), and that on behalf of the limited liability company, I have read the North Carolina Septage Management Rules*, and Landmark Legacy, L.L.C. (name of limited liability company) understands and agrees to maintain the restrictions on land use after septage application ends**. Landmark Legacy, L.L.C. (name of limited liability company) further understands 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 the undersigned limited liability company, or jointly with (name all co-owners, or state none)

Date: 8.14.13

Landmark Legacy, L.L.C.
Limited Liability Company (Print Name)

H. Calvin Hodgkin
Signature (Authorized Member or Manager)

H. CALVIN HODGKIN MGR.
Print Name and Title

North Carolina
Wayne County

I, Lisa Herring, a Notary Public for said County and State do hereby certify that H. Calvin Hodgkin (name of authorized member or manager of limited liability company) personally appeared before me this day and, being first duly sworn, acknowledged that he (she) is a (the) member (member or manager) of Landmark Legacy, L.L.C., a limited liability company, and that by authority duly given and as the act of the limited liability company, the foregoing instrument was signed in its name by its authorized member (member or manager), and that the statements contained therein are true. Witness my hand and official seal, this the 14th day of August, 20 13.

Lisa Herring
Notary Public
My Commission expires: 10-15-16.

(OFFICIAL SEAL)

*15A N.C. Admin. Code 13B Section .0800
** As required by Rule .0826

March 10, 2011

Mr. Chester Cobb
Soil Scientist
NC Division of Waste Management
1601 Mail Service Center
Raleigh NC 27699-1601

Eldridge Brock
Brock's Septic Tank Service
2899 Summerlin's Crossroads Road
Mount Olive NC 28365

Dear Mr. Cobb,

This letter is in reference to a modified Nutrient Management Plan for Site 96-11 maintained by Brock's Septic Tank Service in Mount Olive North Carolina. The amended Nutrient Management Plan reflects a change in how the vegetation in the application areas will be handled after harvesting. Please do not hesitate to contact me with any questions or concerns pertaining to this modified plan.

Sincerely,

Eldridge Brock
Owner
Brock Septic Tank Service



**SEPTAGE NUTRIENT MANAGEMENT PLAN
FOR APPLICATION
TO BERMUDA AND RYEGRASS
Brock's Septic Tank Service
Site 96-11**

A. General Information:

1. The site contains approximately 9.2 wetted acres, which is split into two application fields.
2. The dominant soil type is a Kenansville.
3. Septage will not be applied where the site is untrafficable. (Untrafficable is defined as soil that will not allow a loaded truck to leave a depression in sod greater than 3 inches in depth).
4. Septage storage shall be provided to account for the average volume of septage pumped per week, or an alternative plan; such as disposal at a waste treatment plant, should be in place.

B. Crops to be grown and approximate planting times:

The present stand of ryegrass will be maintained. The hybrid bermudagrass was established on April 20, 2001 at a sprigging rate of 55 bushels of sprigs per acre according to the custom operator. The fields were resprigged on May 4, 2002. If areas develop where the stand is inadequate, these areas should be renovated. Renovation can be made by resprigging with hybrid Bermuda at a rate of 30-40 bushels per acre in March or April. Each year the field will be overseeded with annual ryegrass at a rate of approximately 30 pounds per acre in September.

C. Nitrogen needs for crop grown:

R. Y. E. = Realistic Yield Expectation

Nitrogen Application Rate = Suggested Nitrogen rate based on R. Y. E. for the soil type.

Crop	R. Y. E.	N Application Rate	Lbs of N/Acre
Hybrid Bermudagrass	5.5 tons/acre	50 lbs/Dry Ton	275
Annual Ryegrass	3.0 tons/Acre	45 lbs/Dry Ton	135
		TOTAL	410

D. Crop Plan for Field

Month	Field #1	Field #2
January	rye	rye
February	rye	rye
March	rye	rye
April	rye*/bermudagrass	rye*/Bermuda
May	bermudagrass	bermudagrass
June	bermudagrass	bermudagrass
July	bermudagrass	bermudagrass
August	bermudagrass	bermudagrass
September	bermudagrass	bermudagrass
October	rye+	rye+
November	rye	rye
December	rye	rye

+planted at some time during the month

*harvested at some time during the month

E. Relative Application Rates

	Field #1	Field #2	Howell Field
January	Low	Low	
February	Low	Low	
March	Low	Low	
April	High*	High*	
May	High	High	
June	High	High	
July	High	High	
August	High	High	
September	Medium	Medium	
October	Medium	Medium	
November	Low	Low	
December	Low	Low	

* Application only after harvesting rye
 None = 0 gallons, Low = maximum of 5,000 gallons (13 pounds of PAN), Medium = maximum of 10,000 gallons (26 pounds of PAN), High = maximum of 15,000 gallons (39 pounds of PAN)

NOTE: Cumulative application rate is not to exceed the permitted application rate.

The average plant available nitrogen (PAN) content of septage is 2.6 pounds per 1000 gallons.

F. Application Method

The preceding information is based on septage being evenly applied over the entire permitted site using normal septage application equipment. Septage will be lime stabilized prior to application due to the growth of the crop.

G. Additional Fertility Requirements

1. Phosphorous and potassium must be added in accordance with the soil test recommendations for the crop grown. This will require the addition of commercial fertilizers containing those nutrients.
2. Additional nitrogen should be applied from commercial fertilizers so that the total nitrogen rates meet the R. Y. E. rates previously listed in the table in Section C above.
3. Nitrogen, phosphorous, and potassium applied in the septage should be subtracted from the total nutrient needs to determine the proper commercial fertilizer rates.
4. The buffer areas should be fertilized with commercial fertilizers based on soil test results and in accordance with the R. Y. E. of each hay crop grown as documented in Section C above.

H. Harvest of the crops and their use:

1. The Bermudagrass will be cut and removed from the application site at the time it reaches approximately 12-15 inches in height, or every thirty days. After removal from the land application site, the harvested vegetation will be destroyed.
2. The ryegrass will be cut and removed from the application site in April. After removal from the land application site, the harvested vegetation will be destroyed.

SOIL EROSION AND RUNOFF CONTROL PLAN

Given that the slopes on this site do not exceed five percent, a 50 foot vegetative buffer consisting of Bermudagrass and ryegrass, should suffice to prevent septage waste from migrating off of the fields. More severe site conditions could require that soil erosion structures be installed before septage can be applied.

Submitted By: Eldridge Ray Brock Date 9-23-13

Submitted By: Eldridge Ray Brock Date: 3-11-11
Site Operator

Prepared By: Star Waters Jackson Date: February 25, 2011
Star Waters Jackson
605 Sheep Pasture Road
Albertson, NC 28508
252.568.3610 (home)
252.361.8658 (cell)

SEPTAGE LAND APPLICATION LOG

COVER SHEET

Site Operator: Eldridge Ray Brock
Brock's Septic Tank Service Inc.
SLAS Permit #: 96-03
Site Location: Sleepy Creek Rd. Dudley, N.C. 28333 Wayne County
(street address for the site or latitude and longitude)
Number of acres permitted: 9.2
Permitted application rate: 50,000 Acres per year per acre
(gallons septage per acre per year)
Crop(s): Bermuda Grass and Rye
Crop nitrogen requirement(s): Rye
(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."

Eldridge Ray Brock
(signature)

9-23-13
(date)