



Facility Permit No: SLAS-47-02
Hoke Septic Service, Inc.
Permit to Operate
August 28, 2014
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North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

John E. Skvarla, III
Secretary

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

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

Hoke Septic Service, Inc.
James W. Locklear
2517 North Duffie Road
Red Springs, NC 28377

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-47-02** located on SR#1141 in Hoke County at approximate position 34.93057° N latitude and -79.27431° E longitude. This site is permitted only for operations that are conducted in accordance with the representations made in the approved application, with all conditions attached to this permit, and with all of the provisions of 15A NCAC 13B.0800 -- Septage Management. Failure to operate as permitted may result in the Department suspending or revoking this permit, initiating action to enjoin the unpermitted operation, imposing administrative penalties, or invoking any other remedy as provided in Chapter 130A, Article 1, Part 2 of the North Carolina General Statutes.

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

Date Issued

8/28/2014

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

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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by James W. Locklear and approved by the Division of Waste Management. **The 20.9-acre site shall be divided into Field 1 (10.3 acres) and Field 2 (10.6 acres).** The mandatory 30-day waiting period between the last application of septage and the harvest of a crop shall be maintained. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan.
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by James W. Locklear 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 (including portable toilet waste) 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 two hours prior to land application.

7. **This site contains approximately 20.9 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year. At this application rate, a maximum annual volume of 1,045,000 gallons may be applied to this site. This application rate assumes equal septage distribution, on an annual basis, over the entire permitted area. Application amounts to the fields shall not exceed the maximum annual application rate or the monthly application rates as listed in the approved nutrient management plan for the site.
8. An approved above ground septage detention system with a minimum design capacity of 20,096 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 January 1, 2019.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838 (e)(1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17 (b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas that can be used for land application of septage shall be maintained to meet the minimum setback distances as described in NC Septage Management Rule 15A NCAC 13B .0837(d) such as 500 feet from any existing wells, residences, places of business, or places of public assembly. Also, septage shall not be disposed of within 50 feet of any property line, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise. **The setbacks for the disposal area shall be 50 feet from the railroad track right of way, 50 feet from the neighboring property on the north side and 10 feet on the remaining two sides. A 50 feet setback shall be also be maintained between the disposal field and any neighboring food crop for human consumption.**



North Carolina Department of Environment and Natural Resources

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August 28, 2014

Mr. James W. Locklear
Hoke Septic Tank Service, Inc.
2517 North Duffie Road
Red Springs, NC 28377

**RE: SLAS permit renewal
Hoke Septic Service, Inc.
SLAS-47-02
SR#1141 in Hoke County**

Dear Mr. Locklear:

The NC Division of Waste Management has reviewed your renewal application for a Septage Land Application Site permit in Hoke County. Your application has been approved and your permit, # **SLAS-47-02**, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions.

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 15, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until **January 1, 2019**. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have **prior approval** from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

If you have any questions, please contact me at (910) 433-3352 or Martin Gallagher at (919) 707-8280.

Sincerely,

Connie S. Wylie, Soil Scientist
Division of Waste Management, NCDENR

Enclosures

cc: Sam Hunt & Jackie Chavis, landowners
Hoke 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 JAMES W. LOCKLEAR
Address 2517 North Duffie Rd
RED SPRINGS NC 28377
Phone 910-875-4748

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

3. Landowner SAM HUNT
Address 2841 Blue Springs Rd
RED SPRINGS NC 28377

4. Site Location: County Hoke State Road Number Blue Springs Rd SR 1141
Directions to site: from Raeford on US 401 - South left
on Blue Springs Rd to Cliff McNeill Rd (Dirt Rd)

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

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

Existing site permit number SLAS-47-02 permit expiration date: 1-1-14

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 20 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): MORRIS County WASTE WATER TREATMENT (on file)
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): ADD ENOUGH LIME TO STABILIZE TO pH OF 12 FOR DOMESTIC WASTE FOR 30 MIN; FOR GREASE HOLD PH OF 12 FOR 2 HRS
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): FROM A MOVING VEHICLE WITH A SPREADER ATTACHMENT
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): AGRICULTURAL SITE; HAY COVERED CROP

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.

James W. Locklear
Signature***
JAMES W. LOCKLEAR
Print name

12/27/13
Date
Manager
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.

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, Sam Hunt (name of site owner) hereby certify that I am the owner of 117 acres of land located in Hoke County, NC and identified by 3941-00-01-016 (book and page of recorded deed or tax map parcel) and that I agree to allow JAMES W. LOCKHEAR (name of site operator) to use said land for septage land application for a period of 5 YEARS (length of time), beginning 01-01-14 (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 JACKIE CHAVIS NONE (names of all co-owners, or state none).

Signature of landowner Sam Hunt Date 12/27/13
Signature of landowner Jackie Chavis Date 12/27/13
Sworn to and subscribed before me this 27 day of December, 20 13

Jacqueline Chavis
(Notary Public)

My Commission expires: 3/25/2014

* 15A N.C. Admin. Code 13B Section .0800
** As required by Rule .0843



Nutrient Management Plan

A. General Information:

1. Sampling at least once per year of the soil will be collected for analysis.
2. The site contains approximately ~~20.0~~^{20.9} acres. The site will be divided into two (2) fields (#1 & #2), each containing approximately 10.0 acres.
3. Septage will not be applied where the site is untrafficable. (Untrafficable is defined as soil that will allow a truck to leave a depression in sod greater than three (3) inches in depth).
4. All nitrogen recommendations for forages will be 75 percent of the realistic yield expectation nitrogen rate should the forage be only grazed.
5. Septage will be disposed at the Moore Wastewater Treatment Plant during severe weather conditions.

B. Crops to be grown and approximate planting times:

1. Field #1 will be planted with cereal rye at a rate of 2 to 3 bushels per acre beginning in November of this year. In March of 2003, this field will be sprigged in coastal bermuda grass at a rate of 15 bushels per acre in order to establish a permanent stand. In October of each year thereafter, the field will be over-seeded with cereal rye at the rates mentioned above.
2. Field #2 will be treated the same as Field #1.
3. Re-sprigging will occur when forage establishment does not meet or reduces below 75 to 80 percent field coverage.

C. Nitrogen needs for crops grown:

R.Y.E. = Realistic Yield Expectations

N App. Rate + Suggested Rate based on R. Y.E for soil type

<u>Crop (hay)</u>	<u>R. Y.E.</u>		<u>N App. Rate</u>	<u>lbs N/acre</u>
Bermuda grass	6.0 tons/acre	x	40 lbs N/dry ton	= 240
Cereal rye	3.0 tons/acre	x	40 lbs N/dry ton	= 120
			Total	= 360

Crop (grazed)	R.Y.E.	N App. Rate	(RF)	lbs N/acre
Bermuda grass	6.0 tons/acre x	40 lbs N/dry ton	x 0.75	= 180
Rye/ryegrass	3.0 tons/acre x	40 lbs N/dry ton	x 0.75	= 90
Total				= 270

D. Application Rates:

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

None = 0 Gallons; Low = 5,000 Gallons; Medium = 10,000 Gallons;
High = 15,000 Gallons

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

E. Application Method:

1. The preceding information is based on septage being evenly applied over the entire permitted site from a moving vehicle through a side valve or through a rear valve with a spreader attachment.

F. Additional Fertility Requirements:

1. Approximately 250 lbs per acre of 0-0-60 fertilizer will need to be added to the land application area (per soil analysis data) in April and June to maintain fertility levels.
2. The buffer areas should be fertilized with 200 lbs per acre of 5-0-20 fertilizer to maintain production.

G. Harvest of the crops and their use:

1. The bermuda grass will be cut as hay and baled whenever it reaches approximately 12 inches in height, or roughly every four to six weeks beginning in June. Approximately 3 to 4 harvests can be expected.
2. The rye/rye grass will be cut as hay and baled in March and April.
3. A 30 day waiting period must be observed between the last application of septage and harvest.
4. The harvested bales will be fed to beef cows or horses.

H. Rotation Schedule:

1. Beginning about the first of March each year, septage will be applied strictly to field #1 while the rye/rye grass on field #2 is undisturbed for 30 days. After the 30 days the rye/rye grass in field #2 will be harvested and septage application switched to this field. After an additional 30 days, late April/early May, the rye/rye grass will be harvested from field #1. By early May, a rotation is established which can cycle every 30 to 45 days between bermuda grass harvests. By the end of October, rye/rye grass will have been planted and the entire site will be available for septage application until the end of February the following year (see Nutrient Management Plan Map).

Prepared by: Teddy Locklear
2817 North Duffie Road
Red Springs, NC 28377

Date: September 17, 2002

★ Submitted by: James W. Locklear Date: 11-16-13 ★

RECEIVED

DEC 30 2013

Hoke Septic Service, Inc.

**James W. Locklear – Operator
Sam Hunt/Jackie Chavis – Owners**

DENR –FAYETTEVILLE REGIONAL OFFICE

Site Soils Report

The United State Department of Agriculture Soil Conservation Service describes the soils at the site as **WaB** - Wagram loamy sand, 0 to 6 percent slope, **NoA** - Norfolk loamy sand, 0 to 2 percent slope, **NoB** - Norfolk loamy sand, 2 to 6 percent slope, and **CaB** - Candor sand, 1 to 8 percent slope (see attached USDA – Soil Survey Map).

Random soil borings were evaluated by Teddy Locklear to determine if the site complied with **Rule .0821 of Section .800 – Septage Management**. A total of 12 borings were evaluated to a depth of 42". The results were as follows:

Soil Boring Number	Predominant Soil Group	Wetness Condition
1	II	>42"
2	I	>42"
3	I	>42"
4	II	>42"
5	I	>42"
6	I	>42"
7	II	>42"
8	I	>42"
9	II	>42"
10	I	>42"
11	I	>42"
12	I	>42"

Based on the results of the soils and site evaluation, this site will meet compliance with **Rule .0821 LOCATION OF SEPTAGE LAND APPLICATION SITES** (see attached Soil Evaluation Map).

Soil Erosion and Runoff Control Plan

Given that the slopes on the site do not exceed 8 percent, a ten (10) foot buffer, planted in Bermuda/Rye grasses along with ensure the septage is spread evenly with no ponding should suffice to prevent septage from migrating off the fields.



HOKE SEPTIC SERVICE, INC.
James W. Locklear - Operator
Sam Hunt/Jackie Chavis - Owners
Nutrient Management Plan Map

Set-Backs

Field #1

Field #2

SLAS-47-02

34.93057° N latitude
-78.27431° E longitude



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.



To see all the details that are visible on the screen, use the "Print" link next to the map.

