

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

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

Miller's Septic Service
Warren Miller
80 West Main Avenue
Taylorsville, NC 28681

is hereby issued a permit to operate Septage Land Application Site with permit #SLAS-02-05 located on SR#1442 in Alexander County in approximate position 36.00871° N latitude and -81.10372° 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 affect at the time of review.

Date Issued 2/21/2012

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

Operator: Warren Miller
SLAS#: 02-05
County: Alexander

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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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.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 Warren Miller and approved by the Division of Waste Management. **The 5.3 acres are managed as one field.** The fescue shall be harvested as hay during the end of May or the first of June and the end of September or the first of October each year. The 30-day waiting period between the last application of septage and the harvest of a crop shall be met by disposing of septage in an authorized wastewater treatment plant or detention facility permit# SDTF 02-05 during the months of May and September of each year. 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 Warren Miller 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 which 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 (including portable toilet waste) and grease septage.** 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 5.3 acres that are available for septage disposal.** The maximum annual application rate shall be 50,000 gallons per acre per year, for a total maximum annual application rate of 265,000 gallons. This application rate assumes equal septage distribution, on an annual basis, over the permitted area. Monthly septage applications shall not exceed the monthly relative application rates given in the approved nutrient management plan for the site.
8. An approved above ground septage detention system with a minimum design capacity of 5,096 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.

Operator: Warren Miller
SLAS#: 02-05
County: Alexander

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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 as to have no standing water when the discharge is complete. Septage shall not be applied during periods of high soil moisture.
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 shall discharge septage at this site without prior appropriate notification and written approval of 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 February 8, 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 which 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, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise.



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

February 21, 2012

Mr. Warren Miller
Miller's Septic Service
80 West Main Avenue
Taylorsville, NC 28681

**RE: SLAS permit renewal
Miller's Septic Service
SLAS-02-05
SR#1442 in Alexander County**

Dear Mr. Miller:

The NC Division of Waste Management has reviewed your application to renew a Septage Land Application Site permit in Alexander County. Your application has been approved and your permit, # SLAS-02-05, 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 February 8, 2017. 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) 707-8580.

Sincerely,

Connie Wylie, Soil Scientist
Composting & Land Application Branch

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 Miller's Septic Service / By Warren Miller

Address 80w main Ave, Taylorsville NC 28681

Phone (828)632-0788 cell (828)455-5566

2. Contact person for site operation (if different from applicant): _____

Title or position _____ Phone _____

Address _____

3. Landowner Danny Weaver
Address 155 Judd Smith Rd Taylorsville NC 28681

4. Site Location: County Alexander State Road Number 1442

Directions to site: 1/2 North of Taylorsville (R) Vasht. Rd (L) Vasht. Rd (L) Judd Smith Rd 1st Drive on the Right

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

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

Existing site permit number: SL AS-02-05 permit expiration date: 02-01-2012

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 5 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.

Poultry Compost June 99 2 Tons

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DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

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): SDTF-02-05, Town of Taylorsville
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): Lime stabilize to a pH of 12 for 30 min & apply at 12 for Domestic septage
Lime stabilize to a pH of 12 for 2 hrs, & Apply at 12 for Grease
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary):
use Pump Truck & basket to spread out field evenly
7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law ** or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): This is a agricultural site

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DIVISION OF ENVIRONMENTAL PROTECTION
FACILITY REGISTRATION SECTION

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.

Millers Septic Service by 11-1-11
Warren Miller Signature***

Date

Warren Miller 11-1-11
President Print name

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.**

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DIVISION OF WATER CONTROL
FAYETTEVILLE

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, CLAUDE D WEAVER (name of site owner) hereby certify that I am the owner of 11.5 acres of land located on Judd Smith Rd and identified by Tax map Parcel 176

(book and page of recorded deed or tax map parcel) and that I agree to allow Millers Septic Service / Warren Miller (name of site operator) to use said land for septage land application for a period of 5 years (length of time), beginning Feb 8 2012

(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 LORETTA C WEAVER (names of all co-

owners, or state none).

Signature of landowner Claude D. Weaver Date 11-7-11

Signature of landowner Loretta C. Weaver Date 11-7-11

Sworn to and subscribed before me this 7th day of November, 2011

Laura Martin de la Riva commission expires 8-29-2012

DIVISION OF WASTE MANAGEMENT
FAVETTEVILLE REGIONAL OFFICE

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Nutrient Management Plan for Septage Application to Tall Fescue



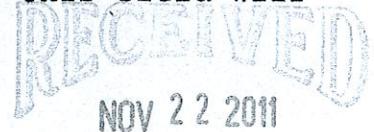
Fescue

A. General Information

1. The site designated Field 17b located on State Road 1440 in Alexander County is being added to nutrient management plan as a land application site for septage.
2. Field 17b contains 5 acres which meet all the set back requirements. This field is established in a good stand of fescue.
3. Periodic sampling (at least 1 time/year) of the septage will be conducted for waste analysis.
4. The dominate soil series at this site is Cecil sandy clay loam.
5. 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).
6. Septage will be spread over the fescue grass Field 17b on a daily basis as weather permits (not raining, snowing, or when the ground is either frozen or saturated). When weather does not permit spreading septage on fescue, disposal of septage is discharged at the Town of Taylorsville waste water treatment plant.
7. Soil samples will be taken on a yearly basis to monitor N-P-K levels in the soil.
8. Method of Application: Septage will be evenly applied over the entire permitted site by being spread from the pump truck while driving across the field.
9. * Soil Erosion and Runoff Control Plan: There will be a 50 foot set back from the site to all adjacent property lines. There will be a 100 foot set back between the application site and the stream to the Northwest of the site. The area to the South of the site is steep, but does have adequate grass and adequate buffer to prevent any runoff of septage.

B. Crops to be Grown and Approximate Planting Times:

Field 17b consists of approximately 5 acres and is established in a good stand of tall fescue. This field will be in tall fescue permanently.



C. Nitrogen Needs For Crops Grown:

RYE = Realistic Yield Expectations

| Crop | R.Y.E. | N. Application Rate |
|--------------------------------|--------------|---------------------------------------|
| Field 17b Tall Fescue (hay) | 3.5 ton/Ac x | 50 lbs. N/dry ton =175.5 lbs. N/Ac |

Total annual accumulation of septage is expected to be approximately 250,000 gallons.

Relative Application Rate for Field 17b:

| Month | Field 17b - 5 Ac (cut for hay) | |
|-----------|--------------------------------|------------------------|
| January | High | 25000 |
| February | High | 25000 |
| March | High | 25000 |
| April | High | 25000 |
| May | None | Cut for Hay |
| June | High | 25000 |
| July | High | 25000 |
| August | High | 25000 |
| September | None | Cut for Hay |
| October | High | 25000 |
| November | High | 25000 |
| December | High | 25000 |
| | | <u>250,000</u> gallons |

None = 0 gallons/Ac

Medium = 2500 gallons/Ac

Low = 1250 gallons/Ac

High = 5000 gallons/Ac

The relative application rate in the table above will allow for 250,000 gallons of septage to be applied if need be.

D. Additional Fertility Requirements: With the relative application rate and the potential to apply 250,000 gallons to the 5 acres in Field 17b the nitrogen supplied from septage is:

$$250,000 / 5 \text{ Ac} = 50,000 \text{ gallons/Ac}$$

$$50,000 \text{ gallons/Ac} (.0026) = 130 \text{ lbs. nitrogen/Ac}$$

Annual nitrogen recommendation for fescue/Ac is 175 lbs. N

Needed: 175 - 130 (supplied from septage) = 45

An additional 45 lbs. of nitrogen could be applied to tall fescue.

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DIVISION OF WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

Additional fertility requirements can be met utilizing a commercial fertilizer of 250 pounds/ac of 17-17-17.

A 30 day waiting period will be observed between the last application of septage and the harvest of hay. There will be no septage applied during the months of May and September to allow for this 30 day waiting period.

Submitted by: Warren Mills Date: 11-1-11

Plan preparation, assisted by: Harry W. Smith
Date: 11/17/2000

Address: P.O. Box 97, Yadkinville, NC 27055

Phone: (336) 679-2061

AMENDMENT TO NUTRIENT MANAGEMENT PLAN

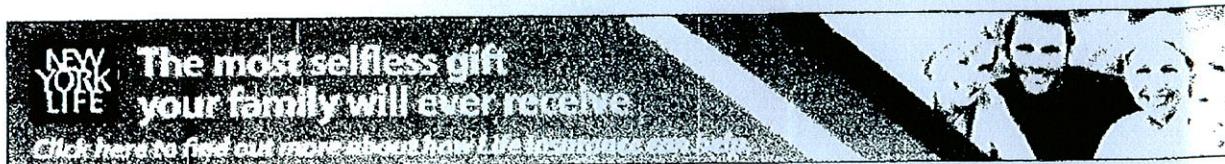
Areas that develop with less than 80% groundcover by fescue will be reseeded with fescue at a rate of 10-20 lbs/acre Drilled or Broadcast (seeding method) in Feb (month).

Cumulative application rate is not to exceed the permitted application rate. Annual application rate is not to exceed 50,000 gallons per acre.

The fescue will be cut as hay and baled whenever it reaches approximately 12 inches in height or just before seedhead emergence (usually in May and September). A 30 day waiting period must be observed between the last application of septage and harvest. The detention facility permit# SDTF 02-05 or the wastewater treatment plant shall be utilized during this 30 day waiting period.

Warren Miller
Signature

2-10-12
Date

[Print Article](#)

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Tall Fescue Seeding Rates

By Angela Ryczkowski, eHow Contributor

More than 35-million acres of tall fescue grass are grown in the United States. It is primarily used as forage for livestock but is also used for turf and erosion control. One of the most important steps in establishing pasture, hay fields or an attractive lawn is proper seeding. If the seeding rate is too low, a fescue stand will be thin and weedy; if too high, the seed money has been pointlessly spent.

Facts

Tall fescue is a bunch-type grass able to spread slowly to form a dense sod. It is a deep-rooted, cool-season perennial grass, meaning it grows best in cool spring and fall temperatures and tolerated excessive moisture or drought and acidic soils. Tall fescue is usually considered too low quality for dairy operations and is more appropriate for beef, sheep or areas that see heavy livestock traffic.

Broadcast Seeding Rates

Broadcast seeding involves spreading seed on the ground with a cyclone spreader. It is usually followed by mixing seed into the soil with harrows, a sort of microtillage that levels the ground or covers the seed. Broadcasting is the most economical method of applying seed to large tracts of land or in areas that will be covered with an erosion control blankets. Planters using the broadcast method should use 15 to 20 lbs. of live seed per acre.

Drilled Seeding Rates

Planting seeds using drill-seeding methods involves mechanically pressing seed into the ground. A tractor-mounted machine moves across prepared soil and presses seed into the ground at a set depth. Fescue seeds planted using drilled methods should be seeded at 10 to 15 lbs. of live seed per acre.

Lawn Seeding Rate

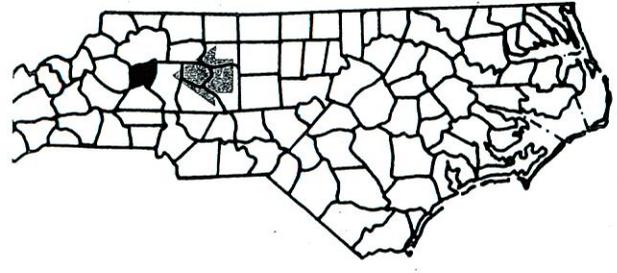
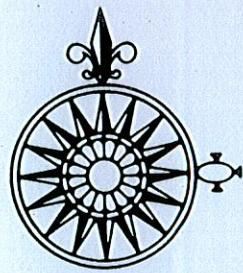
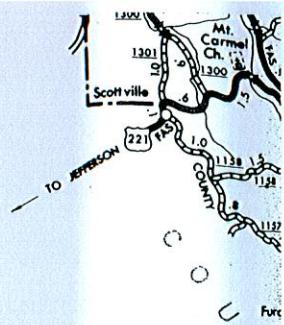
The seeding rate for lawns is much higher than for pasture and other agricultural purposes at 5 lbs. of live seed per 1,000 square feet of lawn desired. To avoid gaps in the lawn, broadcast half the seed in one direction and apply the other half at a right angle to the first direction. Lawn seed can be lightly raked into 1/4 inch of soil

or pressed with a roller and covering with mulch to retain moisture will benefit seed growth.

Reseeding Lawns

Fescue lawns often thin and require occasional reseeding. Pests, soil-related problems, poor irrigation, overfertilizing, improper initial seeding or mowing too low or high all create a need to reseed a fescue lawn. Estimate the percentage of tall fescue loss and multiply it by the established seeding rate. For example, if 50 percent of the plants are lost, use 0.5×5 to determine that the seeding rate should be 2-1/2 lbs. of seed per 1,000 square feet. The new seeds must make contact with the soil to assure success. The existing lawn should be cut short; it is ideal to disturb the soil during or immediately after seeding and to keep the soil moist.

n border is beautiful Lake
 , providing a lovely spot for any
 enthusiast.
 159 square mile county produces
 oats, dairy livestock, textiles, fur-
 paper boxes and sand.



SLAS-02-05

36.00871°N latitude
-81.10372°W longitude



Source: 2010 NAIP Color Imagery, NCDA; 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.