



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 SINGLETARY SEPTIC TANK SERVICE
Address 252 HARVEY MUNTER ROAD PO BOX 789
BLADENBORO, N.C. 28320
Phone (910) 648-2228

2. Contact person for site operation (if different from applicant): FURNIE SINGLETARY
Title or position OWNER Phone 910 648-2228
Address PO BOX 789
BLADENBORO, NC 28320

3. Landowner ALBERT SINGLETARY
Address 2035 1/2 Hwy. 410 SOUTH
BLADENBORO, N.C. 28320

4. Site Location: County BLADEN State Road Number 1195
Directions to site: NIGHTLY ON 410 SOUTH OF BLADENBORO
RIGHT ON 242, RIGHT ON 1195- END OF ROAD NEXT
TO HOG FARM

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

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

Existing site permit number: KS/AS-09-07 permit expiration date: 3/26/2011

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 30
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)

EMAIL



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): #09-07 TOWN OF CHARLBOURN WWT
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): Apply SUFFICIENT NUTRIENTED lime to SEPTAGE - RAISING PH OF SEPTAGE TO 12; HOLDING SEPTAGE AT 12 FOR 30 MINUTES - THEN APPLY. GREASE USE SAME METHOD HOLDING PH 12 FOR 2 HRS THEN APPLY
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): Apply SEPTAGE FROM SIDE OF moving vehicle WITH AID OF SPREADER ATTACHMENT - ACROSS WITH WIDE AND EVEN DISTRIBUTION
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 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.

Furnie Singletary
Signature***

3/14/2011
Date

FURNIE SINGLETARY
Print name

QURNETZ
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.



**SITE 09-07 SEPTAGE PLAN FOR SINGLETARY'S SEPTIC SERVICE
(BERMUDA GRASS AND SMALL GRAIN/RYEGRASS)**

2007

A. General Information:

1. Periodic sampling (at least once/year) of the septage will be conducted for waste analysis. (optional)
2. This site is approximately 10 acres. For purposes of this plan, the site will be identified by 2 fields, the front field designated as field 1 containing approximately 5 acres (to be used for hay) and the back field designated as field 2 containing approximately 5 acres (to be used for grazing cattle). The attached copy of the aerial photograph for the site shows field boundaries and identifications.
3. The dominant soil series on the site is Lakeland sand (LaB, 1-7% slopes).
4. Septage will not be applied where the site is untrafficable (untrafficable is defined as soil that will allow a loaded truck to leave a depression in sod greater than 3 inches in depth).
5. All nitrogen recommendations for forages will be 75% of the realistic yield expectation nitrogen rate should the forage be grazed.
6. 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:

1. At present, field 1 has a satisfactory stand of Coastal Bermuda grass.

Each year, the field will be over seeded with small grain (oats, wheat, barley, triticale or rye) OR ryegrass at a rate of approximately 90-120 lbs./acre for the small grain or 20-30 lbs./acre for the ryegrass drilled in September or October (depending on weather conditions).

Areas in the field that have less than 80% groundcover by Bermuda will be re-sprigged with Bermuda at a rate of 35 to 40 bushels/acre in February-April, depending on weather conditions.

2. Field 2 also has a satisfactory stand of Coastal Bermuda grass and will be treated the same as field 1, except that beef cattle will be allowed to graze field 2.



C. Nitrogen needs for crops grown:

RYE = Realistic Yield Expectations
 N App. Rate + Suggested N application rate based on RYE for soil type.

Crop (hay)	RYE	N App. Rate	lbs N/acre
Coastal bermuda grass	4.5 tons/acre x	50 lbs N/dry ton =	225
Small grain/ryegrass	3.0 tons/acre x	25 lbs N/dry ton =	75
Total			= 300

Or, if the site will be grazed

Crop (grazed)	RYE	N App. Rate	Reduction Factor	lbs N/acre
Coastal bermuda grass	4.5 tons/acre x	50 lbs N/dry ton x	0.75 =	169
Small grain/ryegrass	3.0 tons/acre x	25 lbs N/dry ton x	0.75 =	56
Total				= 225

D. Relative application rates for Fields 1 and 2:

Month	Field	
	1	2
January	Low	Low
February	Low	Low
March	Medium	Medium
April	High	High
May	Medium	Medium
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.
 Annual application rate is not to exceed 50,000 gallons per acre.

E. Application Method

The preceding information is based on septage being evenly applied over the entire permitted site by a moving pumper truck with a sprayer plate.



F. Additional Fertility Requirements

Phosphorus and potassium will be added in accordance with the soil test results for the crops grown. NOTE: If a septage analysis is available, the phosphorus fertilizer requirement can be reduced by accounting for the amount of phosphorus in the septage. No more than 50 units of nitrogen from sources other than septage can be applied to field 1 or 2.

The buffer areas will be fertilized with N-P-K fertilizer or poultry litter to maintain production based on soil test results.

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 4 to 6 weeks beginning in June. At least three harvests will be made from each hay field each year.
- 1 The ryegrass/small grain will be cut as hay and baled in March-April of each year from field 1 while field 2 may be either hayed or grazed.
3. A 30-day waiting period must be observed between the last application of septage and harvest. Beginning about the first of March each year, septage will be applied strictly to Field 2 while the ryegrass/small grain on Field 1 is undisturbed for 30 days. After 30 days the ryegrass/small grain in Field 1 will be harvested and septage application switched to Field 1. After an additional 30 days, in late April to early May, the ryegrass/small grain will be harvested from Field 2. By early May, a rotation will be established which can cycle every 30 to 45 days between bermuda grass harvests. By the end of October, ryegrass/small grain will have been planted and the entire site will be available for septage application until the end of February the following year.
4. The hay will be used by Mr. Singletary to feed his beef cows and horses.
5. The fields could be grazed if a three-field rotation is established. The rotation is such that Field 1 is grazed while Field 2 is undisturbed and Field 3 receives septage. After 30 days, Field 2 will be grazed while Field 3 left undisturbed and Field 1 receives septage. For the third phase of the rotation, Field 3 is grazed while Field 1 is undisturbed and Field 2 receives septage. The following table shows the rotation pattern:

Month	Field 1	Field 2	Field 3
January	Graze	Wait	Apply
February	Apply	Graze	Wait
March	Wait	Apply	Graze
April	Graze	Wait	Apply
May	Apply	Graze	Wait
June	Wait	Apply	Graze
July	Graze	Wait	Apply
August	Apply	Graze	Wait
September	Wait	Apply	Graze
October	Graze	Wait	Apply
November	Apply	Graze	Wait
December	Wait	Apply	Graze

SOIL EROSION AND RUNOFF CONTROL PLAN



Given that slopes on this site do not exceed five percent, a 50 foot buffer, planted in Bermuda and ryegrass/small grain, 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:

Furnie Singletary
Site Operator

Date:

3-6-08

Plan prepared by:

Furnie Singletary

Date:

3-6-08

Address:

PO Box 782

Bladenboro NC 28320

Phone:

910-648-2228

Submitted By:

Furnie Singletary

DATE:

3/24/2011