



North Carolina Department of Environmental Quality

Pat McCrory
Governor

Donald R. van der Vaart
Secretary

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

Atlantic OBX, Inc.
DBA Atlantic Sewage Control
J. Bryan Smith
PO Box 2560
Kitty Hawk, NC 27949

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-27-21** located on SR 1118 in Currituck County at approximate position 36.16167° N latitude and -75.84083° 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

2/26/2016

A handwritten signature in blue ink, appearing to read 'Martin A. Gallagher', written over a horizontal line.

Martin A. Gallagher, Supervisor
Composting & Land Application Branch,
Solid Waste Section
Division of Waste Management, NCDEQ

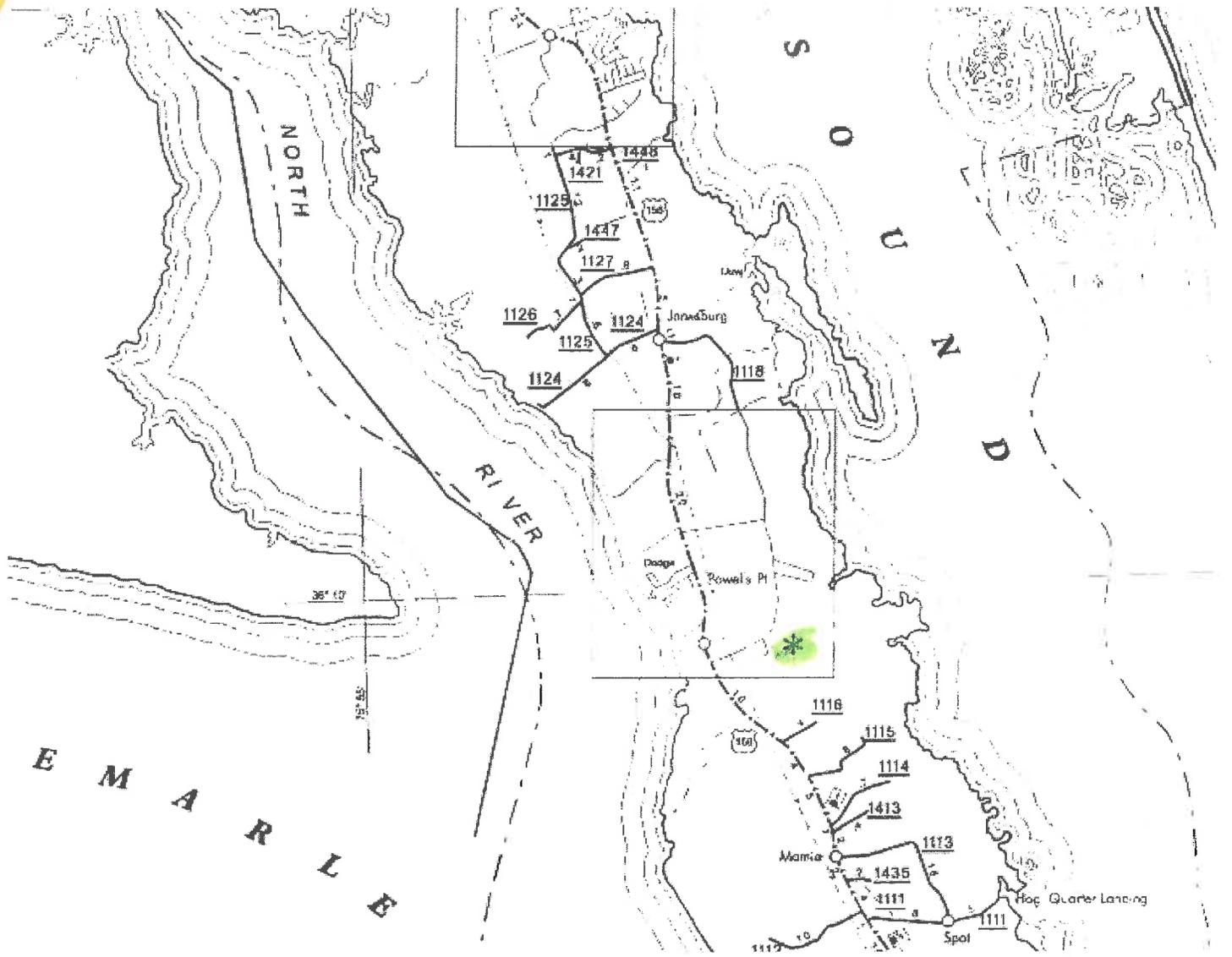
CONDITIONS OF OPERATING PERMIT

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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.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 Atlantic OBX, Inc. and approved by the Division of Waste Management. **The 39.7-acre site shall be divided into four fields labeled as Field 1 (9.5 acres), Field 2 (9.6 acres), Field 3 (18.6 acres), and Field 4 (2.0 acres). Fields 1, 3, and 4 shall remain established in Hybrid bermudagrass. Field 2 shall be planted in millet for the summer crop and rye for the winter crop.** In October of each year, all fields will be seeded in rye. Areas that fall below 80% in crop coverage shall be replanted as covered in the nutrient management plan. The mandatory 30-day waiting period between the last application of septage and the harvest of the crop shall be met by alternating septage applications between the fields or other permitted septage land application 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 erosion and runoff control plan submitted by Atlantic OBX, Inc. 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, portable toilet waste, grease septage, 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.** The pH of domestic septage or portable toilet waste 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. The pH of grease septage or grease septage mixed with domestic septage shall be raised to 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. Grease septage shall be diluted as required by 15A NCAC 13B .0838(a)(15) when applied over perennial vegetation.
7. **This site contains approximately 39.7 acres that are available for land application of septage.** The maximum annual application rate shall be 100,000 gal/ac/yr. At this application rate, a maximum annual volume of 3,970,000 gallons may be applied evenly across the permitted area. For the bermudagrass or millet, the maximum application rate shall be 70,000 gal/ac/yr. For the rye, the maximum application rate shall be 30,000 gal/ac/yr. Application amounts to the disposal fields shall not exceed the maximum annual application rate or monthly application rates listed in the approved nutrient management plan for the site. The maximum annual application rate assumes equal septage distribution, on an annual basis, over the entire permitted area.
8. An approved septage detention facility with a minimum design capacity of 79,500 gallons shall be available prior to operation of this site as per 15A NCAC 13B .0841(b). The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inadequate.
9. Only the area designated on the attached site map shall be utilized for septage disposal. Uniform coverage of septage across the permitted fields shall be obtained through the use of a hard hose traveler irrigation system and pump truck. Septage shall be distributed evenly within the permitted boundaries in such a manner that there is no standing water when the discharge is complete. Applications from a stationary irrigation gun can result in standing water, runoff, and over application of nutrients. Therefore, the speed of the irrigation gun is crucial in maintaining agronomic and hydraulic loading rates for the site. Any spray drifts from the application events must be contained within the permitted area. High winds can lead to drift and uneven land application across the permitted area. The site operator must monitor wind velocity and direction while applying septage.

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 February 26, 2021.** An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. When necessary, an application for permit modification shall be submitted for any proposed change listed in 15A NCAC 13B .0835(h). Along with the application for permit renewal or modification, the prescribed information listed in 15A NCAC 13B .0835(c) through (i) and the septage application records for the period of time this permit was valid shall be submitted.
16. Records shall be kept in accordance with 15A NCAC 13B .0838(e)(1) and the Code of Federal Regulations, 40 CFR Part 503.17(b) to document all septage applications to the site. These records shall be made available to a representative of the Division upon request.

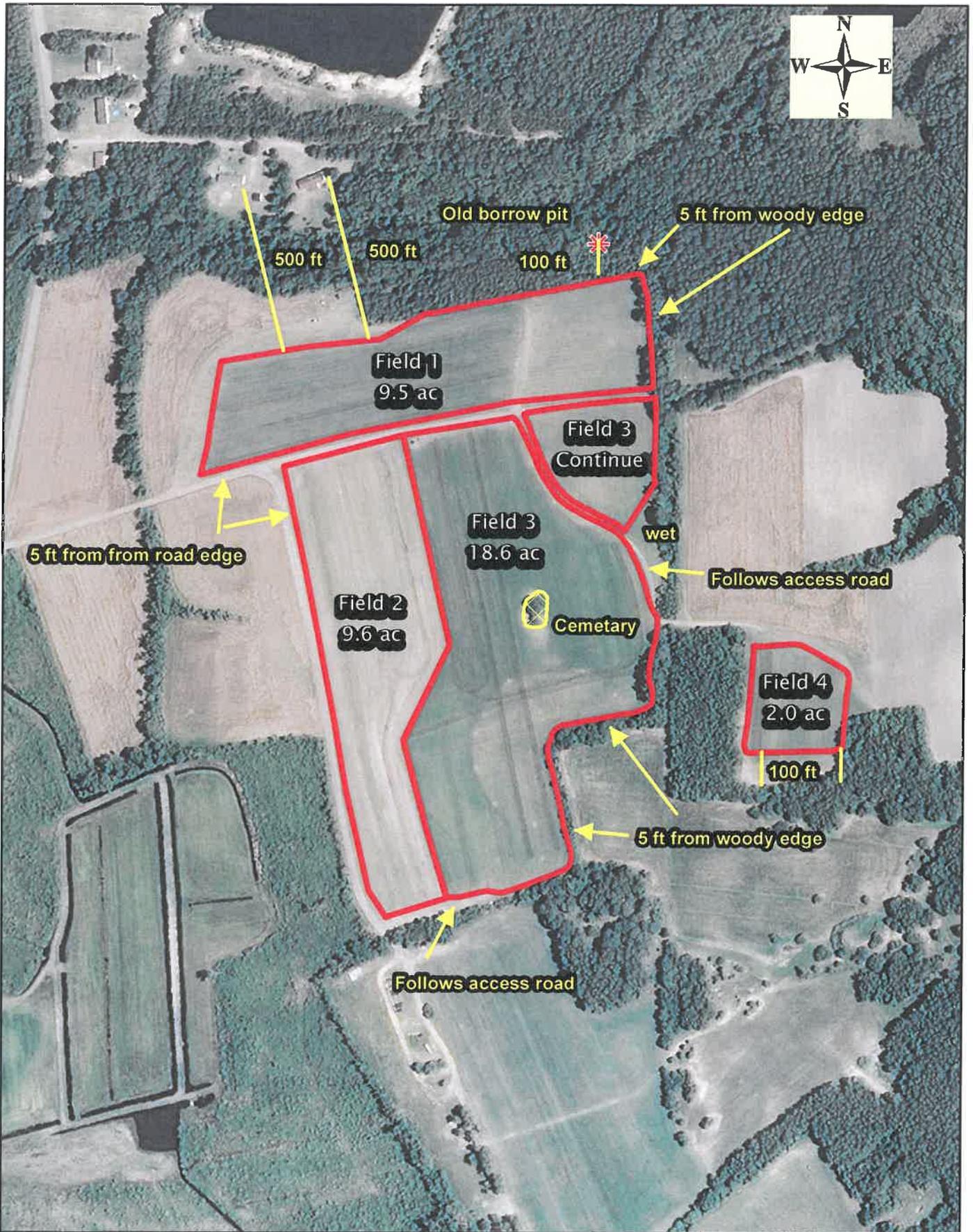
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may 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 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. **If Atlantic OBX, Inc. sells adjoining properties bordering the site, then a 50 feet setback to the property line shall be required.**
20. The total nitrogen applied to the fields shall not exceed the recommended nitrogen amount needed to obtain the realistic yield expectation for the specific crop on the dominant soil series of that field. The total nitrogen amount shall include the plant available nitrogen supplied from septage applications up to a maximum five year mineralization period and any supplemental inorganic nitrogen additions for that year.
21. **Yield estimates shall be determined by physically weighing approximately one-fourth (1/4) to one-half (1/2) of the hay removed for each harvest. A copy of the amount of hay harvested from each field shall be submitted to the Solid Waste Section for each year.**



SLAS-27-21

- Atlantic OBX, Inc.
- Atlantic Sewage Control
- Off of SR 1118
- Position: 36.16167° N latitude -75.84083° W longitude

SLAS-27-21



Aerial Source: 2012 NAIP Aerial imagery.

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

1 in = 400 ft

crc, Jan. 2016



Waste Management
ENVIRONMENTAL QUALITY

PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

LINDA CULPEPPER
Director

February 26, 2016

Mr. J. Bryan Smith
Atlantic OBX, Inc.
DBA Atlantic Sewage Control
PO Box 2560
Kitty Hawk, NC 27949

**RE: SLAS-27-21 Permit Renewal and Modification
Atlantic OBX, Inc. DBA Atlantic Sewage Control
SR 1118 in Currituck County**

Dear Mr. Smith:

The NC Division of Waste Management has reviewed your application to renew and modify the operation of Septage Land Application Site, **Permit # SLAS-27-21**, in Currituck County. Your application has been approved in accordance with NC Septage Management Rules and your permit, **SLAS-27-21**, is enclosed. This permit was modified to add more land to the fields where two (2) previous wells had been properly abandoned. The permit also reflects a change in field numbering. See attached map for details.

Please read all permit conditions carefully. Your nutrient management and soil erosion and runoff control plans you submitted have been included in your Permit. Pay close attention to Permit Conditions 2 and 7 which reflect the change in field identifications, acres, and the maximum annual application volume. This permit shall expire on **February 26, 2021**. An application for permit renewal and your septage application logs should be submitted at least ninety (90) days prior to the expiration of your permit.

Again, please read all permit conditions carefully. 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 permits 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-27-21**."

Sincerely,

Chester R. Cobb, Soil Scientist
Division of Waste Management, NCDEQ

Enclosures

cc: Central Files
Currituck County Health Department

S:\Solid_Waste\cla\septage\slasper\27-Curri\Atlantic OBX Inc\2721cl16p.docx

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 Atlantic OBX, Inc, dba Atlantic Sewage Control
Address P.O. Box 2560
Kitty Hawk, NC 27949
Phone 252-255-2030

2. Contact person for site operation (if different from applicant): Sammy Smith
Title or position Site Manager Phone 252-255-2030
Address P.O. Box 2560
Kitty Hawk, NC 27949

~~3. Landowner Fannie Newbern, Trustee of the Verdie Newbern Trust
Address P.O. Box 132
Powells Point, NC 27966~~

4. Site Location: County Currituck State Road Number 1146
Directions to site: off SR 1118

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

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

Existing site permit number: SLAS-27-21 permit expiration date: 12/30/2015

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 30.6 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)

ATLANTEC OBX INC.
NOW OWNS THE
LAND.
CRC 1/27/06

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-27-16 or Elizabeth City WWTP
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 pumpings 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): All septage, grease & toilet waste will be stabilized with lime prior to land application so that the pH will be >12.0 for at least 30 minutes for domestic septage and at least 2 hours for grease or grease/septage mixture.
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): By driving pumper truck equipped with spreader plates, air activated valves through field while evenly spreading material without creating pools at the ends of rows; also by use of hose reel continuously moving spray irrigation gun.
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 agricultural, 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.

J. Bryan Smith
Signature***

9-25-15
Date

J. Bryan Smith
Print name

Owner/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.

**NUTRIENT MANAGEMENT PLAN FOR SLAS 27-21
SEPTAGE APPLICATIONS TO BERMUDA GRASS AND RYE**

A. General Information

- 1) Field 1 contains approximately ~~6.0~~ ^{18.6} acres; Field 2A contains approximately ~~14.5~~ ^{9.5} acres; Field 2B contains approximately ~~7.2~~ ² acres; Field 3 contains approximately ~~2.0~~ ^{2.0} acres. The attached copy of the aerial photograph for the site shows field boundaries and identifications.
- 2) The dominant soil series on the site is Conetoe (Currituck County).
- 3) 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).
- 4) All nitrogen recommendations for forages will be 75% of the realistic yield expectation nitrogen rate should the forage to be grazed.
- 5) 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.

FIELD 1 9.5 ACRES
FIELD 2 9.6 ACRES
FIELD 3 18.6 ACRES
FIELD 4 2.0 ACRES

CRC 2/26/16

CRC 2/26/16

B. Crops to be grown and approximate planting times:

Table I. Crop rotation for each field per crop type

Field	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
1	No App			Harvest		No App		No App		Harvest/ Plant Rye		No App
2A	No App			Harvest		No App		No App		Harvest/ Plant Rye		No App
2B	No App				Harvest/ Planting			No App		Harvest/ Plant Rye		No App
3	No App			Harvest		No App		No App		Harvest/ Plant Rye		No App

1) FALL AND WINTER CROP (Hybrid Bermuda with Rye Rotation)

- Rye for Hay
- Planting time October 15th through November 1st
- Application starts Nov 1st
- No applications in December and January
- Application ends March 30th
- Harvested April 30th

2) SPRING AND SUMMER CROP (Hybrid Bermuda with Rye Rotation)

- Hybrid Bermudagrass for Hay
- Growing season starts May 1st
- Application begins May 1st
- Cut and baled when grass is ~ 12 inches (approximately 3 cuttings)
- 30 day "No Application" wait period before harvestings
- Last application September 15th
- Last Harvest October 15th

3) FALL AND WINTER CROP (Pearl Millet with Rye Rotation)

- Rye for Hay
- Planting time October 15th through November 1st
- Application starts Nov 1st
- No applications December through February 15th

- e) Application ends May 15th
- f) Harvested June 15th

4) SPRING AND SUMMER CROP (Pearl Millet with Rye Rotation)

- a) Pearl Millet for Hay
- b) Planting time June 1st through June 30th
- c) Application begins June 15th
- d) Cut and baled when grass is ~ 24 inches (approximately 2 cuttings)
- e) 30 day “No Application” wait period before harvestings
- f) Last application September 15th
- g) Last Harvest October 15th

Hydraulic Rate Tables (Assume No Grazing) – Standard Plant Available Nitrogen (PAN) Rate is 2.64 lbs per 1,000 gallons

Table II. Hybrid Bermudagrass overseeded with Rye rotation highlighted as in above Table I

Month	Crop	Rate (Gal./Ac.)	Hydraulic Cumulative Total (Gal./Ac.)	Nitrogen Rate (lbs/Ac.)	Nitrogen Cumulative Total (lbs.)
January	Rye	0	0	0	26.4
February	Rye	10,000	10,000	26.4	52.8
March	Rye	10,000	20,000	26.4	79.2 (Harvest)
April	Rye	0	20,000	0	0
May	Bermuda	15,000	35,000	39.6	39.6
June	Bermuda	20,000	55,000	52.8	92.4
July	Bermuda	20,000	75,000	52.8	145.2
August	Bermuda	0	75,000	0	145.2
September	Bermuda	15,000	90,000	39.6	184.8 (Harvest)
October	Rye	0	90,000	0	0
Nov	Rye	10,000	100,000	26.4	26.4
Dec	Rye	0	100,000	0	26.4
		Annual Total Summary	100,000		264

Nitrogen Requirements = 5.4 Tons x 49 lbs N per ton = 264 lbs of Nitrogen per yr per acre
<http://nutrients.soil.ncsu.edu/yields/> (Nov '15)

Table III. Pearl Millet overseeded with Rye rotation highlighted as in above Table I

Month	Crop	Rate (Gal./Ac.)	Hydraulic Cumulative Total (Gal./Ac.)	Nitrogen Rate (lbs/Ac.)	Nitrogen Cumulative Total (lbs.)
January	Rye	0	0	0	26.4
February	Rye	0	0	0	26.4
March	Rye	10,000	10,000	26.4	52.8
April	Rye	10,000	20,000	26.4	79.2 (Harvest)
May	Pearl Millet	0	20,000	0	0
June	Pearl Millet	15,000	35,000	39.6	39.6
July	Pearl Millet	30,000	65,000	79.2	118.8
August	Pearl Millet	0	65,000	0	118.8
September	Pearl Millet	25,000	90,000	66	184.8 (Harvest)
October	Rye	0	90,000	0	0
Nov	Rye	10,000	100,000	26.4	26.4
Dec	Rye	0	100,000	0	26.4
		Annual Total Summary	100,000		264

Nitrogen Requirements = 4.9 Tons x 54 lbs N per ton = 265 lbs of Nitrogen per yr per acre
<http://nutrients.soil.ncsu.edu/yields/> (Nov '15)

- 5) Field 1, 2A, & 3 have been established in Hybrid Bermuda Grass. To promote stand establishment the following steps will be taken the first year: Upon harvest of the Rye, a foliar herbicide will be immediately applied will the Bermuda grass is still in its dormant stage.
 - a) Areas that develop with less than 80% groundcover will be re-seeded with a forage type Bermudagrass such as **Cheyene** at a rate of 6 – 8 lbs/ac (if broadcasted) or 5 – 7 lbs/ac (if drilled) in April through May.
- 6) Field 2B will be planted with Pearl Millet at a rate of approximately 20 – 25 lbs per acre if broadcasted or 15 to 20 lbs per acre if drilled starting June 1st.
- 7) Field 1, 2A, 2B, & 3 will be overseeded with Rye at a rate of approximately 120 lbs per acre if broadcasted and 100 lbs per acre if drilled in October.
- 8) Prior to cattle grazing periods the fields must remain inactive for at least 30 days prior to allowing the grazing to begin. The reduction in the hydraulic table (from 100,000 gallons per year to 75,000 gallons per year) is to allow for some allocation of Nitrogen to be applied as manure from the cows. Cattle grazing must also follow and allow time for proper crop management schedule listed above.

E. Application Method

The preceding information is based on septage being evenly applied over the entire permitted site by a pressurized vacuum truck or a hose cart on the surface.

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.

OR

Approximately 150 lbs/acre of 0-0-60 N-P-K fertilizer will need to be added to the land application area in March to maintain fertility levels.

The buffer areas will be fertilized with 200 lbs/acre of 20-5-20 N-P-K fertilizer to maintain production based on soil test results.

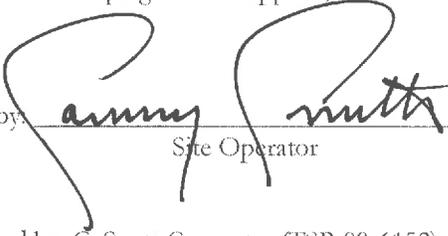
G. Intended Crop use

- 1) The hay will be sold to a local farmer to feed his beef cows and horses

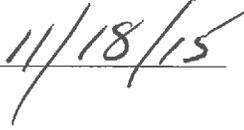
SOIL EROSION AND RUNOFF CONTROL PLAN

Given that slopes on this site do not exceed five percent, a 50 foot buffer, planted in Bermuda grass and rye, 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:


Site Operator

Date:



Plan prepared by: C. Scott Carpenter (TSP-09-6152)

Date: 11/18/2015

Address: 208 Williams Street
Greenville, NC 27858

Phone: (252) 917-4288

EMAZED ON 2/4/16

ATLANTIC OBX SEPTAGE/GREASE MASTER SPREADING & HARVESTING SCHEDULE (REV. JUNE '12)

Site	Field	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
27-16	1	No App	No App/ Harvest Rye April 15 th	No App/ Harvest Rye April 15 th	No App/ Harvest Rye April 15 th	No App/ Harvest Rye June 15 th	No App/ Harvest Bermuda July 1 st	15 Days	No App/ Harvest Bermuda Aug 15 th	15 Days	Harvest Bermuda Oct 15 th / Plant Rye	No App	No App
27-17	1	No App	No App/ Harvest Rye April 15 th	No App/ Harvest Rye April 15 th	No App/ Harvest Rye April 15 th	No App/ Harvest Bermuda June 15 th	No App/ Harvest Bermuda July 1 st	15 Days	No App/ Harvest Bermuda Aug 15 th	15 Days	Harvest Bermuda Oct 15 th / Plant Rye		
27-18	2	No App	No App/ Harvest Rye April 15 th	No App/ Harvest Rye April 15 th	No App/ Harvest Rye April 15 th	No App/ Harvest Bermuda June 15 th	No App/ Harvest Bermuda July 1 st	15 Days	No App/ Harvest Bermuda Aug 15 th	15 Days	Harvest Bermuda Oct 15 th / Plant Rye		
27-18	1	No App	No App/ Harvest Rye April 15 th	No App/ Harvest Rye April 15 th	No App/ Harvest Rye April 15 th	No App/ Harvest Bermuda June 15 th	No App/ Harvest Bermuda July 1 st	15 Days	Harvest Bermuda Sept 1 st / Plant Rye			No App	
27-18	2	No App	No App/ Harvest Rye April 15 th	No App/ Harvest Rye April 15 th	No App/ Harvest Rye April 15 th	No App/ Harvest Bermuda June 15 th	No App/ Harvest Bermuda July 1 st	15 Days	Harvest Bermuda Sept 1 st / Plant Rye			No App	
27-18	3	No App	No App/ Harvest Rye April 15 th	No App/ Harvest Rye April 15 th	No App/ Harvest Rye April 15 th	No App/ Harvest Bermuda June 15 th	No App/ Harvest Bermuda July 1 st	15 Days	Harvest Bermuda Sept 1 st / Plant Rye			No App	
27-19	1	No App	No App	No App/ Harvest Rye May 15 th	15 Days	No App/ Harvest Rye May 15 th	No App/ Harvest Bermuda Aug 1 st	No App/ Harvest Bermuda Aug 1 st	No App/ Harvest Bermuda Aug 1 st		Harvest Bermuda/Plant Rye Oct 15 th		
27-19	2	No App	No App	No App/ Harvest Rye May 15 th	15 Days	No App/ Harvest Rye May 15 th	No App/ Harvest Bermuda Aug 1 st	No App/ Harvest Bermuda Aug 1 st	No App/ Harvest Bermuda Aug 1 st		Harvest Bermuda/Plant Rye Oct 15 th		
27-20	1	No App	No App	No App/ Harvest Rye May 15 th	15 Days	No App/ Harvest Rye May 15 th	No App/ Harvest Bermuda Aug 1 st	No App/ Harvest Bermuda Aug 1 st	No App/ Harvest Bermuda Aug 1 st		Harvest Bermuda/Plant Rye Oct 15 th		
27-20	2	No App	No App	No App/ Harvest Rye May 15 th	15 Days	No App/ Harvest Rye May 15 th	No App/ Harvest Bermuda Aug 1 st	No App/ Harvest Bermuda Aug 1 st	No App/ Harvest Bermuda Aug 1 st		Harvest Bermuda/Plant Rye Oct 15 th		
27-20	3	No App	No App	No App/ Harvest Rye May 15 th	15 Days	No App/ Harvest Rye May 15 th	No App/ Harvest Bermuda Aug 1 st	No App/ Harvest Bermuda Aug 1 st	No App/ Harvest Bermuda Aug 1 st		Harvest Bermuda/Plant Rye Oct 15 th		
27-20	4	No App	No App	Harvest Rye/ Plant Millet June 1 st	15 Days	Harvest Rye/ Plant Millet June 1 st	Start Applying June 15 th	No App/ Harvest Millet August 15 th	No App/ Harvest Millet August 15 th	15 Days	Harvest Millet/ Plant Rye Oct 15 th		
27-21	1	No App	No App	No App/ Harvest Rye May 1 st	15 Days	No App/ Harvest Rye May 1 st	No App/ Harvest Bermuda July 1 st	Harvest Bermuda Sept 15 th / Plant Rye	Harvest Bermuda Sept 15 th / Plant Rye			No App	
27-21	2A	No App	No App	No App/ Harvest Rye May 1 st	15 Days	No App/ Harvest Rye May 1 st	No App/ Harvest Bermuda July 1 st	Harvest Bermuda Sept 15 th / Plant Rye	Harvest Bermuda Sept 15 th / Plant Rye			No App	
27-21	2B	No App	No App	Harvest Rye/ Plant Millet June 1 st	15 Days	Harvest Rye/ Plant Millet June 1 st	Start Applying June 15 th	No App/ Harvest Millet August 15 th	No App/ Harvest Millet August 15 th	15 Days	Harvest Millet/ Plant Rye Oct 15 th	No App	
27-21	3	No App	No App	No App/ Harvest Rye May 1 st	15 Days	No App/ Harvest Rye May 1 st	No App/ Harvest Bermuda July 1 st	Harvest Bermuda Sept 15 th / Plant Rye	Harvest Bermuda Sept 15 th / Plant Rye			No App	

EMAZLED ON 2/4/16

Site	Field	Jan (Gal./Ac.)		Feb (Gal./Ac.)		March (Gal./Ac.)		April (Gal./Ac.)		May (Gal./Ac.)		June (Gal./Ac.)		July (Gal./Ac.)		Aug (Gal./Ac.)		Sept (Gal./Ac.)		Oct (Gal./Ac.)		Nov. (Gal./Ac.)		Dec. (Gal./Ac.)		Total (Gal./Ac./Yr.)				
		Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	
27-16	1	NA	0	10,000	10,000	NA	10,000	10,000	10,000	15,000	25,000	20,000	35,000	20,000	55,000	NA	55,000	20,000	75,000	NA	75,000	NA	75,000	NA	75,000	75,000	75,000	75,000	75,000	
27-17	1	NA	0	10,000	10,000	NA	10,000	10,000	20,000	15,000	35,000	NA	35,000	25,000	60,000	NA	60,000	20,000	80,000	NA	80,000	10,000	90,000	10,000	100,000	100,000	100,000	100,000	100,000	
	2	NA	0	10,000	10,000	NA	10,000	10,000	20,000	15,000	35,000	NA	35,000	25,000	60,000	NA	60,000	20,000	80,000	NA	80,000	10,000	90,000	10,000	100,000	100,000	100,000	100,000	100,000	100,000
27-18	1	10,000	10,000	NA	10,000	NA	10,000	20,000	30,000	20,000	50,000	NA	50,000	30,000	80,000	NA	80,000	10,000	90,000	10,000	100,000	10,000	110,000	10,000	120,000	100,000	100,000	100,000	100,000	100,000
	2	10,000	10,000	NA	10,000	NA	10,000	20,000	30,000	20,000	50,000	NA	50,000	30,000	80,000	NA	80,000	10,000	90,000	10,000	100,000	10,000	110,000	10,000	120,000	100,000	100,000	100,000	100,000	100,000
	3	10,000	10,000	NA	10,000	NA	10,000	20,000	30,000	20,000	50,000	NA	50,000	30,000	80,000	NA	80,000	10,000	90,000	10,000	100,000	10,000	110,000	10,000	120,000	100,000	100,000	100,000	100,000	100,000
27-19	1	NA	0	10,000	10,000	NA	10,000	10,000	20,000	NA	10,000	30,000	40,000	NA	40,000	20,000	60,000	20,000	80,000	NA	80,000	10,000	90,000	10,000	100,000	100,000	100,000	100,000	100,000	100,000
	2	NA	0	10,000	10,000	NA	10,000	10,000	20,000	NA	10,000	30,000	40,000	NA	40,000	20,000	60,000	20,000	80,000	NA	80,000	10,000	90,000	10,000	100,000	100,000	100,000	100,000	100,000	100,000
27-20	1	10,000	10,000	NA	10,000	NA	10,000	20,000	30,000	NA	20,000	30,000	50,000	NA	50,000	20,000	70,000	20,000	90,000	NA	90,000	10,000	100,000	10,000	110,000	100,000	100,000	100,000	100,000	100,000
	2	10,000	10,000	NA	10,000	NA	10,000	20,000	30,000	NA	20,000	30,000	50,000	NA	50,000	20,000	70,000	20,000	90,000	NA	90,000	10,000	100,000	10,000	110,000	100,000	100,000	100,000	100,000	100,000
	3	10,000	10,000	NA	10,000	NA	10,000	20,000	30,000	NA	20,000	30,000	50,000	NA	50,000	20,000	70,000	20,000	90,000	NA	90,000	10,000	100,000	10,000	110,000	100,000	100,000	100,000	100,000	100,000
	4	NA	0	10,000	10,000	10,000	10,000	20,000	30,000	NA	20,000	30,000	50,000	NA	50,000	20,000	70,000	20,000	90,000	NA	90,000	10,000	100,000	10,000	110,000	100,000	100,000	100,000	100,000	100,000
27-21	1	NA	0	10,000	10,000	10,000	10,000	20,000	30,000	15,000	35,000	20,000	55,000	20,000	75,000	NA	75,000	15,000	90,000	NA	90,000	10,000	100,000	10,000	110,000	100,000	100,000	100,000	100,000	100,000
	2A	NA	0	10,000	10,000	10,000	10,000	20,000	30,000	15,000	35,000	20,000	55,000	20,000	75,000	NA	75,000	15,000	90,000	NA	90,000	10,000	100,000	10,000	110,000	100,000	100,000	100,000	100,000	100,000
	2B	NA	0	10,000	10,000	10,000	10,000	20,000	30,000	15,000	35,000	20,000	55,000	20,000	75,000	NA	75,000	15,000	90,000	NA	90,000	10,000	100,000	10,000	110,000	100,000	100,000	100,000	100,000	100,000
	3	NA	0	10,000	10,000	10,000	10,000	20,000	30,000	15,000	35,000	20,000	55,000	20,000	75,000	NA	75,000	15,000	90,000	NA	90,000	10,000	100,000	10,000	110,000	100,000	100,000	100,000	100,000	100,000
Monthly Available Total Volume (Gal./Ac.)		60,000		60,000		50,000		160,000		150,000		255,000		280,000		100,000		270,000		30,000		80,000		80,000		80,000				

RATES CHANGED TO ALIGNED TO NMP FOR FIELDS 1, 2A, AND 3.

Site	Field	Jan (Total Gal)		Feb (Total Gal)		March (Total Gal)		April (Total Gal)		May (Total Gal)		June (Total Gal)		July (Total Gal)		Aug (Total Gal)		Sept (Total Gal)		Oct (Total Gal)		Nov. (Total Gal)		Dec. (Total Gal)		Total (Total Gal/Yr.)				
		Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	Rate	Cumu	
27-16	1 (14.5 Ac.)	NA	0	10,000	145,000	NA	0	10,000	145,000	15,000	217,500	NA	0	20,000	290,000	NA	0	20,000	290,000	NA	0	20,000	290,000	NA	0	NA	0	NA	0	1,087,500
27-17	1 (15 Ac.)	NA	0	10,000	15,000	NA	0	10,000	15,000	15,000	22,500	NA	0	25,000	37,500	NA	0	20,000	30,000	20,000	50,000	NA	0	10,000	15,000	NA	0	NA	0	150,000
	2 (3.0 Ac.)	NA	0	10,000	30,000	NA	0	10,000	30,000	15,000	45,000	NA	0	25,000	75,000	NA	0	20,000	60,000	20,000	80,000	NA	0	10,000	30,000	NA	0	NA	0	300,000
27-18	1 (4.5A c.)	10,000	45,000	NA	0	NA	0	20,000	90,000	20,000	90,000	NA	0	30,000	135,000	NA	0	10,000	45,000	10,000	45,000	10,000	45,000	NA	0	NA	0	NA	0	450,000
	2 (4.5 Ac.)	10,000	45,000	NA	0	NA	0	20,000	90,000	20,000	90,000	NA	0	30,000	135,000	NA	0	10,000	45,000	10,000	45,000	10,000	45,000	NA	0	NA	0	NA	0	450,000
	3 (4.0 Ac.)	10,000	40,000	NA	0	NA	0	20,000	80,000	20,000	80,000	NA	0	30,000	120,000	NA	0	10,000	40,000	10,000	40,000	10,000	40,000	NA	0	NA	0	NA	0	400,000
27-19	1 (9.9 Ac.)	NA	0	NA	0	NA	0	10,000	99,000	NA	0	30,000	297,000	NA	0	20,000	198,000	20,000	198,000	20,000	198,000	NA	0	10,000	99,000	10,000	99,000	NA	0	990,000
	2 (9.3 Ac.)	NA	0	NA	0	NA	0	10,000	93,000	NA	0	30,000	279,000	NA	0	20,000	186,000	20,000	186,000	20,000	186,000	NA	0	10,000	93,000	10,000	93,000	NA	0	930,000
27-20	1 (4.3 Ac.)	10,000	43,000	NA	0	NA	0	10,000	43,000	NA	0	30,000	129,000	NA	0	20,000	86,000	20,000	86,000	20,000	86,000	NA	0	10,000	43,000	10,000	43,000	NA	0	430,000
	2 (4.3 Ac.)	10,000	43,000	NA	0	NA	0	10,000	43,000	NA	0	30,000	129,000	NA	0	20,000	86,000	20,000	86,000	20,000	86,000	NA	0	10,000	43,000	10,000	43,000	NA	0	430,000
	3 (7.1 Ac.)	10,000	71,000	NA	0	NA	0	10,000	71,000	NA	0	30,000	213,000	NA	0	20,000	142,000	20,000	142,000	20,000	142,000	NA	0	10,000	71,000	10,000	71,000	NA	0	710,000
27-21	1 (6.6 Ac.)	NA	0	10,000	66,000	10,000	66,000	10,000	66,000	15,000	99,000	20,000	132,000	30,000	192,000	NA	0	10,000	64,000	15,000	99,000	NA	0	10,000	66,000	NA	0	NA	0	660,000
	2A (14.5 Ac.)	NA	0	10,000	145,000	10,000	145,000	NA	0	15,000	217,500	20,000	290,000	20,000	330,000	NA	0	15,000	217,500	15,000	217,500	NA	0	10,000	145,000	10,000	145,000	NA	0	1,450,000
	2B (7.5 Ac.)	NA	0	NA	0	10,000	75,000	10,000	75,000	NA	0	15,000	112,500	30,000	225,000	NA	0	25,000	187,500	25,000	187,500	NA	0	10,000	75,000	10,000	75,000	NA	0	750,000
	3 (2.0 Ac.)	NA	0	10,000	20,000	10,000	20,000	NA	0	15,000	30,000	20,000	40,000	20,000	40,000	NA	0	15,000	30,000	15,000	30,000	NA	0	10,000	20,000	10,000	20,000	NA	0	200,000
	Monthly Available Total Volume (Gal/Month)		287,000		421,000		370,000		938,000		891,500		1,813,500		1,674,500		698,000		1,806,000		130,000		543,000		458,000		10,027,500			

103.9 Total Permitted Acres x 100,000 Gallons per Acre = 10,390,000 Allowable Gallons

Site	Field	Jan		Feb		March		April		May		June		July		Aug		Sept		Oct		Nov.		Dec.		Total	
		Rate Gal	N App #/Ac.	Rate Gal	N App #/Ac.																						
27-16	1 (14.5 Ac.)	NA	0	10,000	26.4 (Crop 2)	NA	0	10,000	26.4 (Crop 1)	15,000	39.6 (Crop 1)	NA	0	20,000	52.8 (Crop 1)	NA	0	20,000	52.8 (Crop 1)	NA	0	NA	0	NA	0	171.60	26.4
27-17	1 (1.5 Ac.)	NA	0	10,000	26.4 (Crop 2)	NA	0	10,000	26.4 (Crop 1)	15,000	39.6 (Crop 1)	NA	0	25,000	66 (Crop 1)	NA	0	20,000	52.8 (Crop 1)	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	184.8	79.2
	2 (3.0 Ac.)	NA	0	10,000	26.4 (Crop 2)	NA	0	10,000	26.4 (Crop 1)	15,000	39.6 (Crop 1)	NA	0	25,000	66 (Crop 1)	NA	0	20,000	52.8 (Crop 1)	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	184.8	79.2
27-18	1 (4.5A c.)	10,000	26.1 (Crop 2)	NA	0	NA	0	20,000	52.8 (Crop 1)	20,000	52.8 (Crop 1)	NA	0	30,000	79.2 (Crop 1)	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	NA	0	NA	0	184.8	79.2
	2 (4.5 Ac.)	10,000	26.4 (Crop 2)	NA	0	NA	0	20,000	52.8 (Crop 1)	20,000	52.8 (Crop 1)	NA	0	30,000	79.2 (Crop 1)	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	NA	0	NA	0	184.8	79.2
	3 (4.0 Ac.)	10,000	26.4 (Crop 2)	NA	0	NA	0	20,000	52.8 (Crop 1)	20,000	52.8 (Crop 1)	NA	0	30,000	79.2 (Crop 1)	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	NA	0	NA	0	184.8	79.2
27-19	1 (9.9 Ac.)	NA	0	NA	0	NA	0	10,000	26.4 (Crop 2)	NA	0	30,000	79.2 (Crop 1)	NA	0	20,000	52.8 (Crop 1)	20,000	52.8 (Crop 1)	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	184.8	79.2
	2 (9.3 Ac.)	NA	0	NA	0	NA	0	10,000	26.4 (Crop 2)	NA	0	30,000	79.2 (Crop 1)	NA	0	20,000	52.8 (Crop 1)	20,000	52.8 (Crop 1)	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	184.8	79.2
27-20	1 (4.3 Ac.)	10,000	26.4 (Crop 2)	NA	0	NA	0	10,000	26.4 (Crop 2)	NA	0	30,000	79.2 (Crop 1)	NA	0	20,000	52.8 (Crop 1)	20,000	52.8 (Crop 1)	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	184.8	79.2
	2 (4.3 Ac.)	10,000	26.4 (Crop 2)	NA	0	NA	0	10,000	26.4 (Crop 2)	NA	0	30,000	79.2 (Crop 1)	NA	0	20,000	52.8 (Crop 1)	20,000	52.8 (Crop 1)	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	184.8	79.2
	3 (7.1 Ac.)	10,000	26.4 (Crop 2)	NA	0	NA	0	10,000	26.4 (Crop 2)	NA	0	30,000	79.2 (Crop 1)	NA	0	20,000	52.8 (Crop 1)	20,000	52.8 (Crop 1)	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	184.8	79.2
	4 (6.4 Ac.)	NA	0	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	NA	0	30,000	79.2 (Crop 1)	NA	0	20,000	52.8 (Crop 1)	20,000	52.8 (Crop 1)	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	184.8	79.2
27-21	1 (6.6 Ac.)	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	NA	0	15,000	39.6 (Crop 1)	20,000	52.8 (Crop 1)	20,000	52.8 (Crop 1)	NA	0	15,000	39.6 (Crop 1)	15,000	39.6 (Crop 1)	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	184.8	79.2
	2A (14.5 Ac.)	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	NA	0	15,000	39.6 (Crop 1)	20,000	52.8 (Crop 1)	20,000	52.8 (Crop 1)	NA	0	15,000	39.6 (Crop 1)	15,000	39.6 (Crop 1)	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	184.8	79.2
	2B (7.5 Ac.)	NA	0	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	NA	0	15,000	39.6 (Crop 1)	20,000	52.8 (Crop 1)	NA	0	25,000	66 (Crop 1)	25,000	66 (Crop 1)	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	184.8	79.2
	3 (2.0 Ac.)	NA	0	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	NA	0	15,000	39.6 (Crop 1)	20,000	52.8 (Crop 1)	20,000	52.8 (Crop 1)	NA	0	15,000	39.6 (Crop 1)	15,000	39.6 (Crop 1)	10,000	26.4 (Crop 2)	10,000	26.4 (Crop 2)	184.8	79.2

ATLANTIC OBX, INC.

ATLANTIC SEWAGE CONTROL
OUTER BANKS SEPTIC SERVICES
POST OFFICE BOX 2560
KITTY HAWK, N.C. 27949

Telephone (252) 255-2030
Fax (252) 255-0702

OWNER LEASE AGREEMENT

TO: ATLANTIC OBX, INC.

I am the owner of the property listed in DENR Permit #27-21 as shown on the attached map:
Being site 27-21 in Currituck County, Latitude 36° 09' 42" – Longitude 75° 50' 27". Containing 32.25
net useable acres in 3 fields.

I hereby authorize: Atlantic OBX, Inc. dba Atlantic Sewage Control and Outer Banks
Septic Service to use the above fields for use as land application and
septage detention or treatment facility. For the use of these fields the following monthly
rent rate will be sent to me in the first week of each new month. This agreement will last
for a period of 5 years starting with this signed dated agreement form. The agreement is
based on the following rate:

MONTHLY LEASE RATE FOR THE ABOVE LISTED FIELDS:

To be determined -
March PER MONTH TO: VERDIE NEWBERN TRUST. *SOS*
9/1/15

Nichole Derby

Nichole Derby

Fannie Newbern

Fannie Newbern

Janice N. Haskett

Janice N Haskett

Sarah N. Griffin

Sarah N. Griffin

Lindley Newbern

Lindley Newbern

Tommy Newbern

Tommy Newbern

Stephanie Smith

Stephanie Smith

Sworn to and subscribed before me, this the 1st day of Sept., 2015.

Tracey A. Brannan
Notary Public

My commission expires: 10.3.17

TRACEY A BRANNAN
NOTARY PUBLIC
Currituck County
North Carolina
My Commission Expires October 3, 2017

**Landowner's Authorization to Operate a Septage Land Application Site
SLAS 27-21**

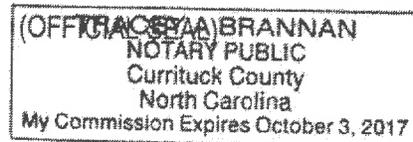
North Carolina Department of Environment and Natural Resources
Division of Waste Management - Solid Waste Section
401 Oberlin Rd, Ste. 150, Raleigh, N.C. 27605

I, Verdie Newbern Trust – Fannie Newbern, Trustee (name of site owner) hereby certify that I am the owner of 30.25 acres of land located off SR1118 in Currituck Co. and identified by Deed Book 72, page 79 (book and page of recorded deed or tax map parcel) and that I agree to allow Atlantic OBX, Inc. dba Atlantic Sewage Control (J. Bryan Smith) (name of site operator) to use said land for septage land application site for a period of Five (5) Years (length of time), beginning January 1, 2016 (month, day and year) and that I have read the North Carolina Septage Management Rules *. I further understand that no septage may be stored or treated on the land until the Division of Waste Management has issued a permit for a detention or treatment facility. The above described property is owned solely by me or jointly with Nichole Derby, Fannie Newbern, Janice N. Haskett, Sara N. Griffin, Lindley Newbern, Tommy Newbern, Stephanie Smith (names of all co-owners, or state none).

Signature of landowner *Fannie Newbern* Date 8-20-2015
Fannie Newbern, Trustee

Sworn to and subscribed before me this 20th day of August, 20 15.

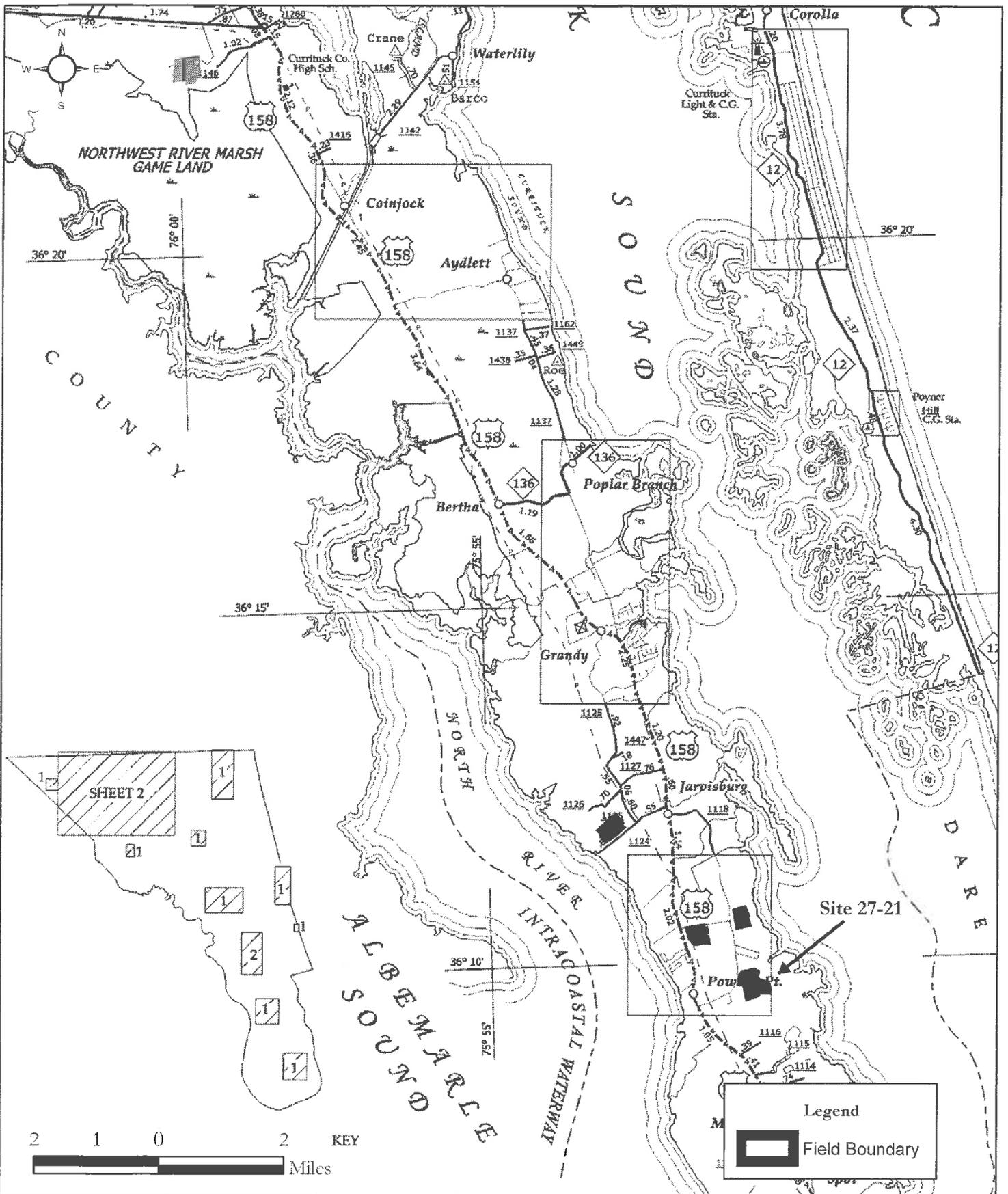
[Signature]
(Notary Public)



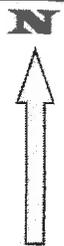
My Commission expires: 10-3-17

* 15A N.C. Admin. Code 13B Section .0800

** As required by Rule .0826



Scale: 1 inch equals 2 miles		SLAS 27-21 LOCATION MAP	Figure 1
Drawn by: CSC		Permit Renewal	
Reviewed by:		Powells Point, North Carolina	
Date: January '12		Soil Plus Project # 201007.A13	



SLAS-27-10

SCALE: 1" = 600'	ATLANTIC OBX, Inc.	AERIAL MAP	MAP
CHECKED BY:	ATLANTIC SEWAGE CONTROL	Newbern Site 10 Fields 1,2 & 3	2
DRAWN BY: CGL	* OUTER BANKS SEPTIC SERVICES	Currituck County, NC	
DATE: May-09	Kitty Hawk, NC - 252-255-2030	JOB NO. SLAS-27-10	

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Elizabeth N. Cody

Well Contractor Name (or well owner personally abandoning well on his/her property):

NCWC 3459-A

NC Well Contractor Certification Number:

Company Name:

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input checked="" type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 4/03/2015

5a. Well location:

Charles Edward Younts Jr.

Facility/Owner Name

Facility ID# (if applicable)

7764 Caratoke Hwy. Powells Point, NC 27966

Physical Address, City, and Zip

Currituck

012200000380000

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
if well field, one lat/long is sufficient

36° 09.780 N 75° 50.395 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction records if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: 2528-Davis

6b. Total well depth: 25 (ft.)

6c. Borehole diameter: N/A (in.)

6d. Water level below ground surface: 6 (ft.)

6e. Outer casing length (if known): 20 (ft.)

6f. Inner casing/tubing length (if known): N/A (ft.)

6g. Screen length (if known): 5 (ft.)

For Internal Use ONLY

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: 1
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form

7b. Approximate volume of water remaining in well(s): N/A (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: Chlorine

7d. Amount of disinfectant used: 200ppm

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

1 (90 lb. bag) bentonite

1 (10 lb. bag) cement

7g. Provide a brief description of the abandonment procedure:

chlorine down the well, gravity fed bentonite chips down the well. Glued cap on well and topped the top of glued cap with cement.

8. Certification:

Elizabeth Cody 4/6/2015
Signature of Certified Well Contractor/Well Owner Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. **For All Wells:** Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. **For Injection Wells:** In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. **For Water Supply & Injection Wells:** In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY

1. Well Contractor Information:

Elizabeth N. Cody

Well Contractor Name (or well owner personally abandoning well on his/her property)

NCWC 3459-A

NC Well Contractor Certification Number

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Agricultural | <input type="checkbox"/> Municipal/Public |
| <input type="checkbox"/> Geothermal (Heating/Cooling Supply) | <input type="checkbox"/> Residential Water Supply (single) |
| <input type="checkbox"/> Industrial/Commercial | <input type="checkbox"/> Residential Water Supply (shared) |
| <input type="checkbox"/> Irrigation | |

Non-Water Supply Well:

- | | |
|-------------------------------------|-----------------------------------|
| <input type="checkbox"/> Monitoring | <input type="checkbox"/> Recovery |
|-------------------------------------|-----------------------------------|

Injection Well:

- | | |
|--|---|
| <input type="checkbox"/> Aquifer Recharge | <input type="checkbox"/> Groundwater Remediation |
| <input type="checkbox"/> Aquifer Storage and Recovery | <input type="checkbox"/> Salinity Barrier |
| <input type="checkbox"/> Aquifer Test | <input type="checkbox"/> Stone Water Drainage |
| <input type="checkbox"/> Experimental Technology | <input type="checkbox"/> Subsidence Control |
| <input type="checkbox"/> Geothermal (Closed Loop) | <input type="checkbox"/> Tracer |
| <input type="checkbox"/> Geothermal (Heating/Cooling Return) | <input type="checkbox"/> Other (explain under 7g) |

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: 1
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form

7b. Approximate volume of water remaining in well(s): N/A (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: Chlorine

7d. Amount of disinfectant used: 200ppm

7e. Sealing materials used (check all that apply):

- | | |
|---|--|
| <input checked="" type="checkbox"/> Neat Cement Grout | <input checked="" type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

1 (90 lb. bag) bentonite

1/4 bag (10 lb. bag) cement

7g. Provide a brief description of the abandonment procedure:

chlorine down the well, gravity fed bentonite chips down the well. Poured cement on top of well at ground level.

4. Date well(s) abandoned: 4/03/2015

5a. Well location:

Charles Edward Younts Jr.

Facility/Owner Name

Facility ID# (if applicable)

7764 Caratoke Hwy. Powells Point, NC 27966

Physical Address, City, and Zip

Currituck

012200000410000

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36° 09.603 N 75° 50.473 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: _____

6b. Total well depth: 10 (ft.)

6c. Borehole diameter: N/A (in.)

6d. Water level below ground surface: 6 (ft.)

6e. Outer casing length (if known): N/A (ft.)

6f. Inner casing/tubing length (if known): N/A (ft.)

6g. Screen length (if known): N/A (ft.)

8. Certification:

Elizabeth Cody
Signature of Certified Well Contractor or Well Owner

4/6/2015
Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C. 0100 or 2C. 0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following.

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

Currity County GIS Online Mapping



Currity County GIS
 (252)232-2634
www.co.currity.nc.us/Geographic-Information-Services.cfm

This map should be used for general reference purposes only. Currity County assumes no legal liability for the information shown on this map.

1st well
 10 ft well
 PIN # 012200000410000

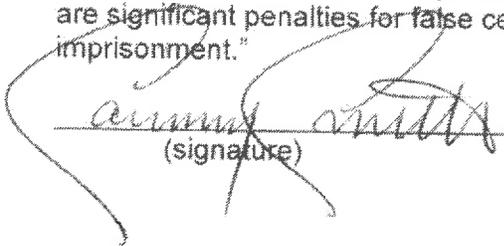
SEPTAGE LAND APPLICATION LOG

CERTIFICATION

Site Operator: Sammy Smith
SLAS Permit #: 27-21
Site Location: SR1118, Currituck County
(street address for the site or latitude and longitude)
Number of acres permitted: 30.6
Permitted application rate: 100,000 gallons per acre-year
(gallons septage per acre per year)
Crop(s): Bermuda Grass (summer)/Rye (winter)
Crop nitrogen requirement(s): 264
(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."


(signature)

9-24-15
(date)