



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

Pat McCrory
Governor

Dexter R. Matthews
Director

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**

Williams Septic Tank Service
Marshall & Darlene Williams
P.O. Box 546
Hudson, NC 28638

is hereby permitted to operate Septage Land and Application Site with permit # **SLAS-12-05** located on SR#1514 in Burke County in approximate position 35.80474° N latitude and -81.59062° 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 2/29/2014


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

CONDITIONS OF OPERATING PERMIT

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Marshall & Darlene Williams and approved by the Division of Waste Management. **The 6.5-acre site shall be divided into two fields known as front field 1 (3.1 acres) and back field 2 (3.4 acres).** The two permitted fields shall be established in fescue. **The 30 day waiting period between the last application of septage and the harvest of a crop shall be maintained.** The 30 day waiting period between the last application of septage and the harvest of a crop shall be met by alternating septage applications, the waiting period and harvest between the two fields as described in the nutrient management plan. 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 Marshall & Darlene Williams in such a manner as to prevent the migration of wastes off of the designated waste receiving site. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.

6. **This site is only permitted for the land application of domestic septage and grease trap pumpings.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application. Grease septage or grease septage mixed with domestic septage shall be raised to pH 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 2 hours prior to land application.
7. **This site contains approximately 6.5 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year, for a total, **maximum annual application rate of 325,000 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 6,250 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 February 27, 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 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.



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February 27, 2014

Marshall & Darlene Williams
Williams Septic Tank Service
P.O. Box 546
Hudson, NC 28638

**RE: SLAS permit renewal
Williams Septic Tank Service
SLAS-12-05
SR#1514 in Burke County**

Dear Mr. & Mrs. Williams:

The NC Division of Waste Management has reviewed your application to renew a Septage Land Application Site permit in Burke County. Your application has been approved and your permit, # **SLAS-12-05**, 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 27, 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 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
1646 Mail Service Center, Raleigh, NC 27699-1646



I. Site and Operator Information *Williams Septic Tank Service* *D.W.*
1. Applicant Marshall R. Williams
Address PO Box 546
Hudson, NC 28638
Phone 828-728-7116 - 728-5289 - 828-381-5319 mp

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

3. Landowner Marshall & Darlene Williams
Address 1922 Baton School Road
Wenoir NC 28645

4. Site Location: County Burke State Road Number 1514
Directions to site: exit off 40 on 107 Drexel on 114 thru N. Main
turn on Amherst R on Huffman Bridge Rd R on Smokey Creek
R on Dogwood Vista turn past chicken houses (Field #3)

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

For a permit renewal or modification, provide the following information:
Existing site permit number: 12-05 permit expiration date: 8-18-2018

8/14

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 6.5 acres.
(43.23 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): SDTF (14-01) Holding Tanks & Wenoir Wastewater Treatment Facility
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) Prior to land application (lime stabilization)
* Domestic Septage - lime stabilized to PH 12 for 30 minutes
* Grease Septage - lime stabilized to PH 12 for 2 hours.
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): From moving vehicle using a Spreader Plate to control the amount coming from truck in a thinner application to land.
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): site Agricultural

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.

* Marshall B Williams
* Dartene Williams
Signature***
MARSHALL A WILLIAMS
Dartene Williams
Print name

4-22-2013
Date
4-22-2013
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.

SAMPLE NUTRIENT MANAGEMENT PLAN FOR
SEPTAGE APPLICATIONS TO TALL FESCUE

A. General Information:

1. Periodic sampling (at least 0 /year) of the septage will be conducted for waste analysis. (optional)
2. Field 1 contains approximately 3.1 acres and Field 2 contains approximately 3.4 acres. The attached copy of the aerial photograph for the site shows field boundaries and identifications.
3. The dominant soil series on the site is Fairview sandy clay loam
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. Field 1, including buffer zones, will be seeded in tall fescue at a rate of _____ lb/acre _____ (seeding method) in _____ (month) of 20__ in order to establish a permanent stand. To promote stand establishment the following steps will be taken the first year (weed control, reduced number of harvests, reduced vehicular traffic, etc):

fields are established

Areas that develop with less than 80 % groundcover by fescue will be re-seeded with fescue at a rate of 15 lbs/acre drilled (seeding method) in Sept/October or (month).

March

2. Field 2 will be treated the same as Field 1.

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
Tall fescue	4.0 tons/acre x	45 lbs N/dry ton	= 180

Crop (grazed)	RYE	N App. Rate	Reduction Factor	lbs N/acre
 	 	 	 	

~~Full coverage 75 tons/acre x 45 lbs N/acre ton x 0.75 = 125~~

D. Relative application rates for Fields 1 and 2:

Month	Field	
	1	2
January	Low	Low
February	Medium	Medium
March	High	High
April	High	High
May	Medium	Medium
June	Low	Low
July	Low	Low
August	Low	Low
September	Medium	Medium
October	Medium	Medium
November	Medium	Medium
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 broadcast method pump truck (method, equipment, special application patterns). with spreader plate mowing vehicle

F. Additional Fertility Requirements

Phosphorus and potassium will be added in accordance with the soil test results for the crops grown. NOTE: The phosphorus requirement can be reduced by taking into consideration the phosphorus from the septage analysis, if an analysis is available.

~~Approximately _____ lbs/acre of _____ N-P-K fertilizer will need to be added to the land application area _____ (months) to maintain fertility levels.~~

The buffer areas will be fertilized with 200 lbs/acre of 17-17-17 N-P-K fertilizer to maintain production based on soil test results.

G. Harvest of the crops and their use:

1. The fescue will be cut as hay and baled whenever it reaches approximately 12 inches in height or just before seedhead emergence. This will usually take place in late May and again in September or October. At least two fescue harvests will be made each year.
2. A 30-day waiting period must be observed between the last application of septage and harvest. Beginning about mid-April each year, septage will be applied strictly to Field 2 (B) while Field 1 is undisturbed for 30 days. After 30 days the fescue on Field 1 will be harvested and septage applications switched to Field 1. After an additional 30 days, in mid-June, the fescue will be harvested from Field 2. The same rotation pattern will be followed for all subsequent harvests. *during the winter time both fields will be used.*
3. The hay will be sold to a local farmer to feed his beef cows and horses.
4. ~~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

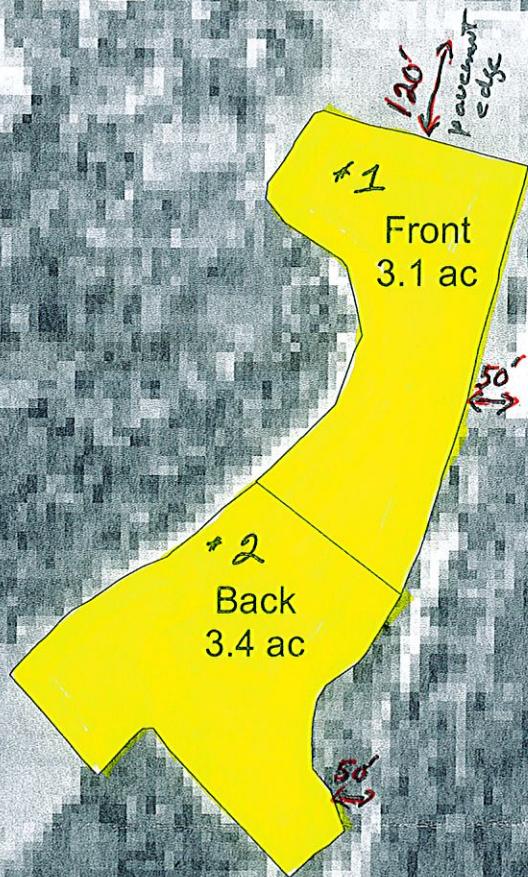
Given that slopes on this site do not exceed five percent, a 50 foot buffer, planted in *woods or* fescue, should suffice to prevent septage waste from migrating off of the fields. (More severe site conditions could require that soil erosion structures be installed before septage can be applied).

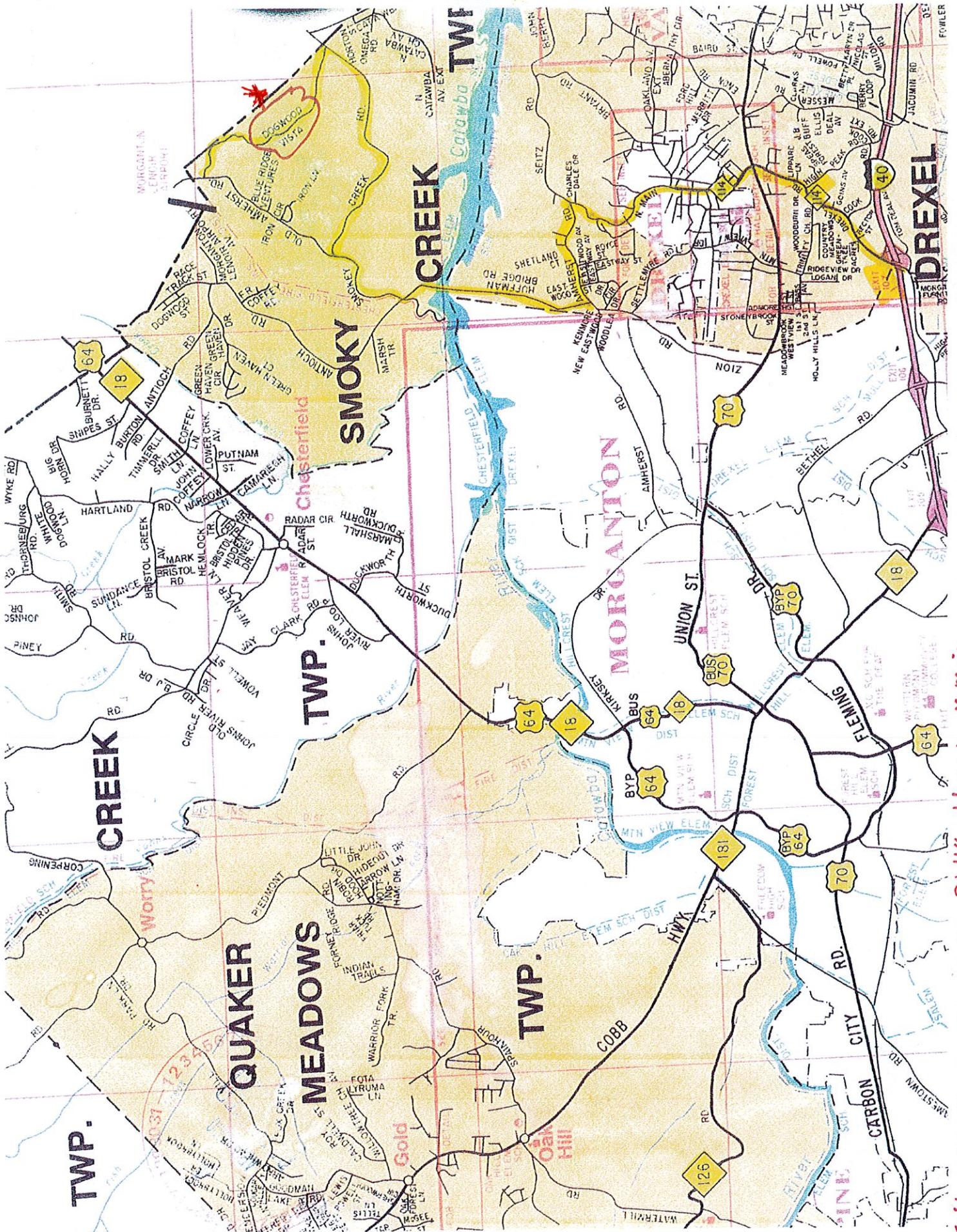
Submitted by: Marlene P. Williams Date: 7-30-08
Marshall R Williams 4-22-13
 Site Operator

Plan prepared by: Marlene P. Williams Date: 4-22-13

Address: _____

Marshall





Exit off 40 on 107 onto Rd114 through N. Main