



Facility Permit No: SLAS-76-05
Cheek Environmental
Permit to Operate
March 31, 2016
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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

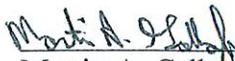
PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

Cheek Environmental
Randy Cheek
7748 Lanes Mill Road
Bennett, NC 27208

is hereby permitted to operate Septage Land Application Site with permit # **SLAS-76-05** located on SR#2641 in Randolph County at approximate position 35.62693° N latitude and -79.57037° 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 3/31/2016


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 This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards of both surface and ground waters.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 Randy Cheek and approved by the Division of Waste Management. **The 6.88-acre site shall remain established in fescue and is divided into two fields known as Field 2 (2.74 acres) and Field 3 (4.14 acres).** The mandatory 30-day waiting period between the last application of septage and the harvest or grazing of the crop shall be maintained. This will be accomplished by rotating between the two disposal fields, utilizing the permitted storage tanks and using other available pasture land for the cattle. No septage shall be applied to fescue over 12-14 inches tall. 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 Randy Cheek in such a manner as to prevent the migration of wastes off of the designated waste receiving site. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations, and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of domestic septage (including portable toilet waste) and grease 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. Grease septage when applied over perennial vegetation shall be diluted per 15A NCAC 13B .0838(a)(15).

7. **This site contains approximately 6.88 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year. At this application rate, a maximum annual volume of **344,000 gallons** may be applied to this site. The maximum annual application rate assumes equal septage distribution, on an annual basis, over the entire permitted area. Application rates to each of the disposal fields shall not exceed the maximum annual application rate or the monthly application rates listed in the approved nutrient management plan.
8. An approved septage detention system with a minimum design capacity of 6,615 gallons, as per 15A NCAC 13B .0841(a), shall be available prior to operation of this site unless an approved disposal option is available for use during periods when land application is prohibited. 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 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 March 31, 2021.** 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 15A NCAC 13B .0838(e)(1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17(b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas that can be used for land application of septage shall be maintained to meet the minimum setback distances as described in 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.



Waste Management
ENVIRONMENTAL QUALITY

PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

MICHAEL SCOTT
Director

March 31, 2016

Ms. Randy Cheek
Cheek Environmental
7748 Lanes Mill Road
Bennett, NC 27208

RE: **SLAS permit renewal**
Cheek Environmental
SLAS-76-05
SR#2641 in Randolph County

Dear Mr. Cheek:

The NC Division of Waste Management has reviewed your renewal application for a Septage Land Application Site permit in Robeson County. Your application has been approved and your permit, # **SLAS-76-05**, 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 **March 31, 2021**. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

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

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

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

Sincerely,

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

Enclosures

cc: files
Randolph County Health Department

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RECEIVED
AUG 2014

APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE 2014

North Carolina Department of Environment and Natural Resources
Division of Waste Management - Solid Waste Section
1646 Mail Service Center, Raleigh, NC 27699-1646

DIVISION OF WASTE MANAGEMENT
FAYETTEVILLE REGIONAL OFFICE

I. Site and Operator Information

1. Applicant Cheek Environmental
Address 7748 Lanes Mill Rd
Bennett NC 27208
Phone 336-736-0414 or 336-879-3764

2. Contact person for site operation (if different from applicant): Randy Cheek
Title or position Owner/operator Phone 336-736-0414
Address 7748 Lanes Mill Rd
Bennett NC 27208

3. Landowner same as above
Address _____

4. Site Location: County Randolph State Road Number 2641
Directions to site: US 64 West, left on Raleigh St./Siler City - Glendon Rd., Right on Bonlee-Bennett Rd, Right on Lane Mill Rd., Left on Lambeth Mill Rd., Site is 9/10 mile on the left.

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

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

Existing site permit number: SLAS-76-05 permit expiration date: 12-6-14

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 12 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): Permitted Storage Detention Facility / Asheboro and Siler City Wastewater Treatment Plants
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): Domestic septage will be treated with hydrated lime to raise the ph to 12 for a half hour prior to the land applying. grease will be raised to ph 12 and held at ph 12 for 2 hours prior to land application. R.C.
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): Septage will be land applied from a moving vehicle and Lely spreader attachment will be used to ensure a wide, thin spray path.
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): N/A agricultural site.

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.

Randy Cheek
Signature***

8/21/14
Date

Randy Cheek
Print name

owner/operator
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.

Randy Cheek 10-29-15

Modified Nutrient Management Plan of Septage Application for

Randy Cheek

A. General Information

1. Soil samples will be taken once a year from each site or field number permitted to have septage applied to it.
2. There has previously been 2 fields permitted to receive septage with approximately 4 acres of land. Field 1 and 2. Field 1 will no longer be permitted due to its small size. Field 2 will be re-seeded following the directions below.
3. New field 3 already has an established stand of fescue sod with 100% ground coverage and is 4.15 acres in size.
4. The dominant soil series of both these fields are Badin-Tatum with 2-8 % slope.
5. All nitrogen recommendations for forages will be 100 % of Realistic Yield Expectation. If grazing animals are placed on the sites it will be reduced to 75 %.
6. Septage will be "lime stabilized" before application
7. Septage will not be applied to the sites when it is untrafficable, it will be stored in storage tanks at the site which have a storage capacity of 44,000 gallons. (Untrafficable is defined as soil that will allow a loaded truck to leave a depression in sod greater than 3 inches in depth.)
8. No septage will be applied within 500 feet of a residence, 200 feet of a stream, or 50 feet from a property line.
9. If the fescue stands become too thin, the fields are to be over-seeded with a no-til drill in the months of September-November with 25 pounds of seed per acre.

Instructions for Reseeding Fields 1 and 2

- A. The fields are to be mowed(bush hogged) as low as possible to eliminate weeds and their seeds from maturing.
- B. The fields should be disked to aid the bottom plow in going deeper into the soil.
- C. The fields are to be deep plowed to try and invert the soil with high levels of phosphorous, zinc and copper.
- D. The fields are to be disked to prepare a good seedbed and to help dilute the high levels of P, Zn and Cu.
- E. The fields are to be seeded to tall fescue at a broadcast rate of 40 pounds to the acre.
- F. The fields are to be culti-packed or disked lightly to insure good seed to soil contact.
- G. All of these steps should be done during September or October of 2006.

B. Fertility Needs

R. Y.E. = 3.9 tons/year

Nitrogen application rate = 45 lbs. N/dry ton

$3.9 \times 45 = 176$ lbs of Nitrogen per acre per year

All other nutrients will be applied to each field as determined by the soil samples.

C. Relative Application Rates

January	Low
February	Medium
March	High
April	High
May	Medium
June	Low
July	Low
August	Low
September	Medium
October	High
November	Medium
December	Low

Low = 5000 gallons, Medium = 10,000 gallons and 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.

D. Application Method

All septage will be applied broadcast over the permitted sites uniformly at the recommended rates with the spreader truck.

E. Crop Management

The fescue from field 2 and 3 will be cut and baled for hay.

A 30 day waiting period must be observed between the last application date and harvesting of the grass.

The two fields can be properly managed to include haying and septage application with the appropriate waiting period by following the table below. In addition, Randy has 44,000 gallons of storage tank availability he can utilize to hold septage to assist him in managing his fields for proper growth and maintenance.

12-14 inches
↑
tall ← No septage will be applied to fescue over ~~16 inches tall~~. This will be accomplished by rotating his harvest by one month between the 2 fields in the spring and fall.

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

F. Soil Erosion and Runoff Control Plan

Soil erosion and runoff should not be a problem due to the fact that each field has an excellent stand of fescue sod on all sides and slopes are between 2 and 8 %.

G. Grazing Plan if needed in the Future

If Mr. Cheek wants to allow cattle to graze the waste application sites he must obey the following modifications to his plan listed below.

1. His realistic yield expectation will be reduced to 75 %. Thus his new nitrogen application rate will be $176 \times 75\% = 132$ lbs. per acre.
2. Between the highway and field 2 he has a cross fence (noted on aerial photo attached). We will refer to this area as field 4. He can place his cattle in this pasture during the 30 day waiting period between application of septage and grazing. He can utilize this holding area during the pre-harvest waiting period for fields 2 and 3.
3. His new application and grazing schedule will be:

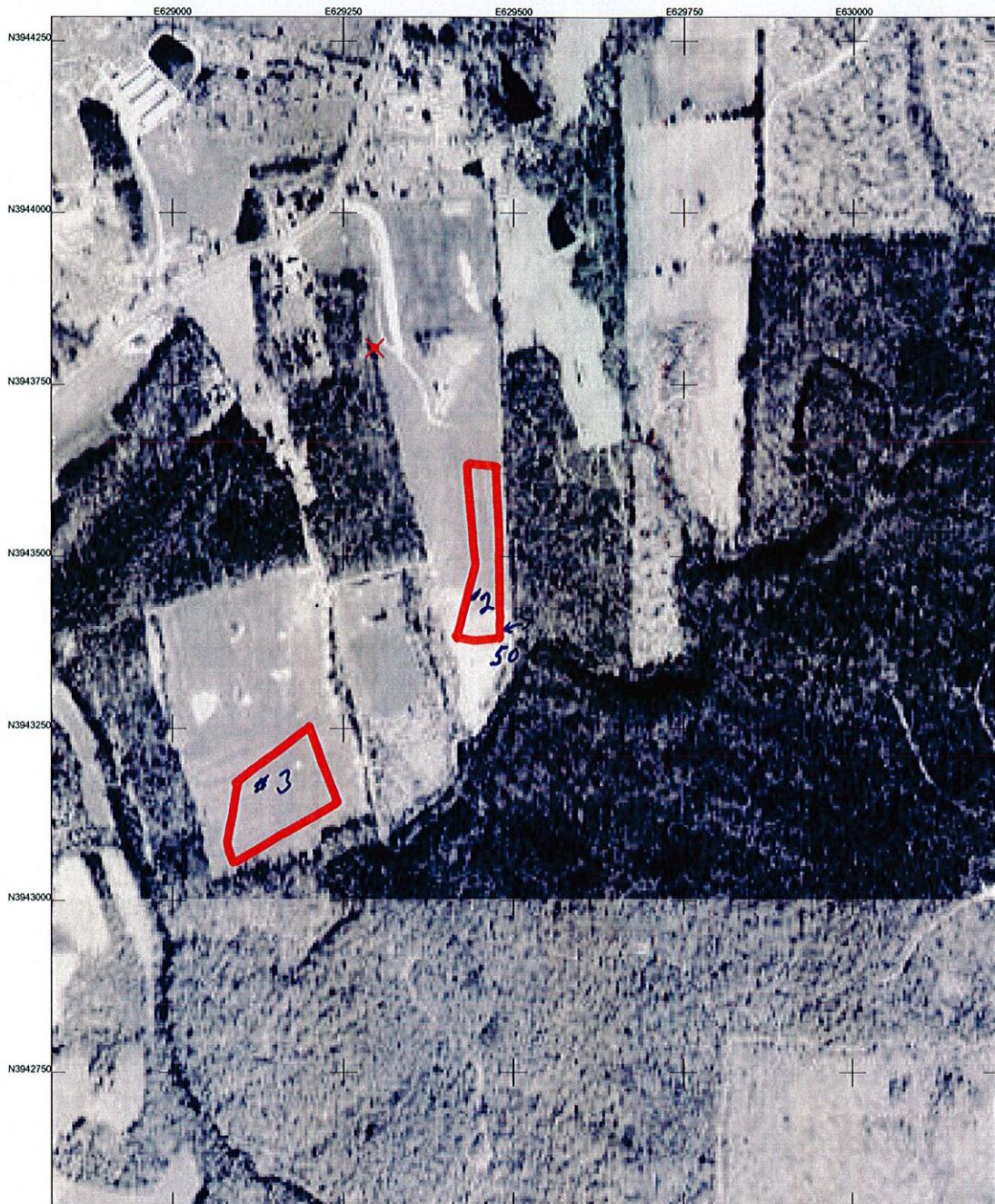
Month	Field 2	Field 3	Field 4
January	Apply	Graze	
February	Wait	Apply	Graze
March	Graze	Wait	
April	Apply	Graze	
May	Wait	Apply	Graze
June	Graze	Wait	
July	Apply	Graze	
August	Wait	Apply	Graze
September	Graze	Wait	
October	Apply	Graze	
November	Wait	Apply	Graze
December	Graze	Wait	

Randy Cheek

8-7-14

Randy Cheek

10-29-15



35.62693°N latitude
-79.57037°W longitude

SLAS-76-05

Field #2 2.74 acres
Field #3 4.14 acres
6.88 total

UTM
17 North
NAD 1983 (Conus)



Scale 1:10,000



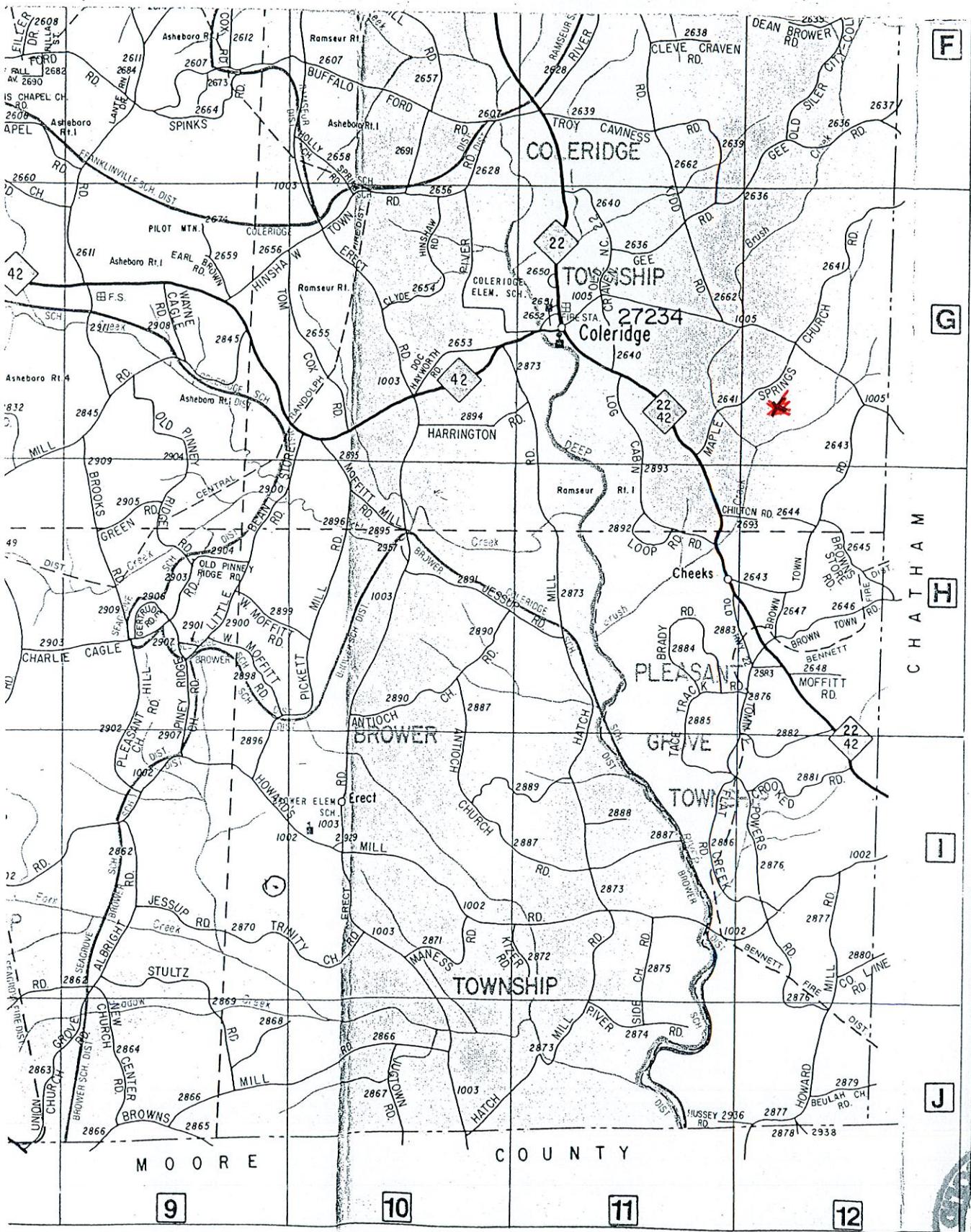
Feet

Multiple Files

8/25/2006 *Corrected*

GPS Pathfinder® Office





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