

LAND APPLICATION OF BIOSOLIDS
CHARLES & LONNIE KEMP
LO 155 (Fields 1-7)
LOUISA COUNTY, VIRGINIA



Revised
8/15

February 2013
Synagro
10647 Tidewater Trail
Champlain, VA 22438



March 1, 2013

Mr. Ed Stuart
Dept of Environmental Quality
Northern Virginia Regional Office
13901 Crown Court
Woodbridge, VA 22193

Dear Mr. Stuart:

Transmitted herein for your consideration is land application site for Charles & Lonnie Kemp (designated as LO 155, Fields 1-7), located in Louisa County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

A handwritten signature in red ink, which appears to read "Madison K Holsinger". The signature is written in a cursive style.

Madison K Holsinger
Technical Services Manager



FIELD SUMMARY SHEET

Charles & Lonnie K LO 155

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	TOPO QUAD	OWNER
155-1	55.6	52.1		Pendleton	Jessica Lynn Brumbaugh Trust
155-2	4.7	3.6		Pendleton	Jessica Lynn Brumbaugh Trust
155-3	8.2	7.0		Pendleton	Jessica Lynn Brumbaugh Trust
155-4	15.2	14.2		Pendleton	Jessica Lynn Brumbaugh Trust
155-5	12.8	12.8		Pendleton	Charles & Patty T. Kemp
155-6	22.6	21.8		Pendleton	Charles & Patty T. Kemp
155-7	21.3	20.9		Pendleton	Charles & Patty T. Kemp
TOTALS:	140.4	132.4			

Revised 08-18-2015

Appendix I

VIRGINIA POLLUTION ABATEMENT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This biosolids/industrial residuals land application agreement is made on 4/6/12 between Charles Kemp referred to here as "Landowner", and SUNAGRO referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

I am the registered owner of real property known as Kemps Farm, located in LOUISA Virginia, which includes the agricultural sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>DB 1242/520</u>			
<u>195.73AC</u>			
<u>PB 8/2779</u>			

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: I am the sole owner of the properties identified herein.
 I am one of multiple owners of the properties identified herein.

In the event that I, the landowner, sell or transfer all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, I shall:

1. Notify the purchaser of the applicable public access and crop management restrictions no later than the closing date; and
2. Notify the permit holder of the sale within two weeks following closing.

I have no other agreements for land application on the fields identified herein. I will notify the permittee immediately if conditions change such that the fields are no longer available to the permittee for application or any part of this agreement becomes invalid.

I hereby grant permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. I also grant permission for DEQ staff to conduct inspections on my land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance.

Class B biosolids Water treatment residuals Other industrial sludges (check all that apply)

Charles Kemp
Charles Kemp Landowner - Printed Name Charles Kemp Signature 225 Bethany Church RD
Louisa, VA Mailing Address Banbury, Va 23024

Permittee:

SUNAGRO, the permittee, agrees to apply biosolids and/or industrial residuals on the landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia. Permittee will provide a copy of the NMP to the landowner within 30 days after land application has commenced. If the plan requires modification to reflect the actual application rates or farming practices at the site, a revised plan will be provided within 2 weeks of the modification.

Permittee agrees to notify landowner or landowner designee of the proposed schedule for land application and specifically prior to any particular application to landowner's land. Notice shall include the source of residuals to be applied.

Lee Rosson
Lee Rosson Permittee - Authorized Representative Printed Name Lee Rosson Signature 10647 Tidewater Trail
Champlain VA 22438 Mailing Address

**VIRGINIA POLLUTION ABATEMENT APPLICATION
PART D-VI LAND APPLICATION AGREEMENT**

Permittee: SUNAGRO

Permit # or County: LOUISA

Landowner: Charles Kemp

Farm name or address: Kemp Farm

Landowner Site Management Requirements:

I, the landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, at least 30 days after land application at that site was completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Charles Kemp
Landowner's Signature

1/15/12 Date Jan 15, 2012
CWK

Lorraine M Kemp

1/15/12

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Synagro County or City: Louisa

Landowner: Patty T. Kemp

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

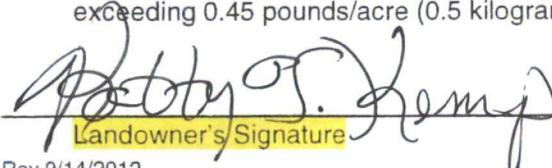
I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).


Landowner's Signature

1/6/12
Date

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 8-13-15 between Jessica Lynn Brumbragh Trust referred to here as "Landowner", and Synagro, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Louisa, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
72-30A			

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- The Landowner is the sole owner of the properties identified herein.
- The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
X Yes <input type="checkbox"/> No			

Jessica Lynn Brumbragh Trust Lonnie Kemp (Trustee) 15565 Jefferson Hwy Bumpass

Landowner - Printed Name, Title Signature Mailing Address Va, 23024

Lonnie Kemp, Trustee
Permittee:

Synagro, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

X I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

<u>D. Steve McMahon</u>	<u>D. Steve McMahon</u>	<u>10647 Tidewater Trail</u>
Permittee - Authorized Representative	Signature	Mailing Address
Printed Name		<u>Champlain, VA 22438</u>

Permittee: Synagro County or City: Louisa

Landowner: Jessica Lynn Brumbaugh Trust - Lonnie Kemp, Trustee

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

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 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
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 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
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 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
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 - a. Meat producing livestock shall not be grazed for 30 days,
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 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Lonnie Kemp (Trustee)

Landowner's Signature

8/13/15

Date

Louisa County, VA Property Record Card

August 18, 2015



Community Development
Post Office Box 160
Louisa, Virginia 23093

Phone: 540-967-3430 OR 866-325-4131 17
Email: msmith@louisa.org

Land and Value Information

Parcel No:	72 30A	Description 1:	CUB CREEK
Property Address:		Description 2:	PB 8/2779 PARCEL A
Zoning:	A2	Description 3:	DB 1296/765 111.27 AC
District Code:	2	Description 4:	
Total Acres:	111.270	Land Use Value:	\$76,400
Parent:	0	Last Sale Value:	\$0
Land Use Code:	6	Deed Book:	1,296
Land Value:	\$231,500	Deed Page:	765
Improvement Value:	\$59,100	Land in Acres:	111.270
Total Assessed Value:	\$290,600		

Real Estate Assessment Information

Hyperlink Assessment Link: <http://louweb.louisa.org/assess/index.asp?action=GetRecords&RecFilter=30796>

Owner Information

Owner:	KEMP, LONNIE M	Owner Zip Code:	23024
Owner2:	TRUSTEE		
Owner Address:	15565 JEFFERSON HWY		
Owner City,State:	BUMPASS, VA		

Louisa County, Virginia - Disclaimer: Information deemed reliable but not guaranteed. County not responsible for inaccuracies of legal descriptions. This information should be verified by the records of the Clerk of the Court.

Tax ID Landowner Identification Sheet

<u>Landowner</u>	<u>Field #</u>	<u>Tax ID</u>
Jessica Lynn Brumbaugh Trust, Lonnie Kemp-Trustee	155-1	72 – 30A
Jessica Lynn Brumbaugh Trust, Lonnie Kemp-Trustee	155-2	72 – 30A
Jessica Lynn Brumbaugh Trust, Lonnie Kemp-Trustee	155-3	72 – 30A
Jessica Lynn Brumbaugh Trust, Lonnie Kemp-Trustee	155-4	72 – 30A
Charles & Patty T. Kemp	155-5	72 - 30
Charles & Patty T. Kemp	155-6	72 - 30
Charles & Patty T. Kemp	155-7	72 - 30

<u>Field #</u>	<u>Latitude (north)</u>	<u>Longitude (west)</u>
155-1	37 ⁰ 55' 29.88"	77 ⁰ 53' 28.88"
155-2	37 ⁰ 55' 18.82"	77 ⁰ 53' 20.94"
155-3	37 ⁰ 55' 22.86"	77 ⁰ 53' 14.95"
155-4	37 ⁰ 55' 18.86"	77 ⁰ 53' 11.61"
155-5	37 ⁰ 55' 46.18"	77 ⁰ 53' 08.91"
155-6	37 ⁰ 55' 30.35"	77 ⁰ 53' 03.87"
155-7	37 ⁰ 55' 33.77"	77 ⁰ 53' 18.28"

Haul Route:

The location maps in conjunction with the above latitude and longitude coordinates are a route planning tool meant to be a guide to indicate suggested haul routes for various preferences; to include but not limited to all federal, state, and local granted STAA access routes.



Tax Map 72-30, 72-30A

LO 155 (1-7)



Date: 08/18/2015

Printed By: Carolanne Whiteside

Loudoun County assumes no liability for any errors, omissions, or inaccuracies in the information provided. Please consult official County plats and records for official information.

Farm Summary Report

Plan: **New Plan** **Spring, 2014 - Summer, 2018**

Farm Name: **LO 155**
Location: Louisa
Specialist: D. Steve McMahon
N-based Acres: 132.4
P-based Acres: 0.0

Tract Name: **LO 155**
FSA Number: 0
Location: Louisa

Field Name: **01**
Total Acres: 55.60 Usable Acres: 52.10
FSA Number: 0
Tract: LO 155
Location: Louisa
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
54	AnB2	Appling
16	AnC2	Appling
12	WoB	Worsham
9	CIB	Colfax
9	DuB	Durham

Field Warnings:

Field Name: 02
Total Acres: 4.70 Usable Acres: 3.60
FSA Number: 0
Tract: LO 155
Location: Louisa
Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
64	CfC3	Cecil-Pacolet
25	SeC	Sekil
6	WoB	Worsham
5	AnB2	Appling

Field Warnings:

Field Name: 03
Total Acres: 8.20 Usable Acres: 7.00
FSA Number: 0
Tract: LO 155
Location: Louisa
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
70	AnB2	Appling
18	AnC2	Appling
12	SeC	Sekil

Field Warnings:

Field Name: 04
Total Acres: 15.20 Usable Acres: 14.20
FSA Number: 0
Tract: LO 155
Location: Louisa
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
48	AnB2	Appling
43	AnC2	Appling
9	CcB2	Cecil

Field Warnings:

Field Name: 05
Total Acres: 12.80 Usable Acres: 12.80
FSA Number: 0
Tract: LO 155
Location: Louisa
Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
29	ArC3	Appling-Wedowee
20	AnC2	Appling
20	CcB2	Cecil
17	AnB2	Appling
14	ApB2	Appling

Field Warnings:

Field Name: 06
Total Acres: 22.60 Usable Acres: 21.80
FSA Number: 0
Tract: LO 155
Location: Louisa
Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
50	AnB2	Appling
31	ArC3	Appling-Wedowee
19	AnC2	Appling

Field Warnings:

Field Name: 07
Total Acres: 21.30 Usable Acres: 20.90
FSA Number: 0
Tract: LO 155
Location: Louisa
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
48	AnB2	Appling
43	ApB3	Appling

Field Warnings:

Environmentally Sensitive Areas

Field	Reason for Sensitive Area
155-1	High Water Table (Map Units WoB, CIB – 21%)
155-2	High Water Table (Map Unit WoB – 6%) Leaching Potential (Map Unit SeC – 25%)
155-3	Leaching Potential (Map Unit SeC – 12%)
155-4	None
155-5	None
155-6	None
155-7	None

Louisa County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
AsB, AsC, AsD	Ashlar			Leaching
AsC3, AsD3	Ashlar			Leaching
AV	Ashlar			Leaching
Ch	Chewacla	Nov – April	Nov – April	
CIB	Colfax	Nov – June		
Eb	Elbert	Nov – May		
FN	Fluvaquents	Nov – April	Nov – April	
Fo	Forestdale	Jan – April	Jan – April	
FrB	Fork	Oct – May	Oct – May	
IdB	Iredell	Dec – April		
IdB2, IdC2	Iredell	Dec – April		
IrA, IrB	Iredell	Dec – April		
Iv	Iredell	Dec – April		
LgB	Lignum	Dec – May		
MnB, MnC, MnD	Madison			Shallow
MoC, MoD	Madison			Shallow
SeB, SeC, SeD	Sekil			Leaching
SeC3	Sekil			Leaching
SP	Sekil			Leaching
To	Tocca		Jan – Dec	
Ts	Tocca		Jan – Dec	
We	Wehadkee	Nov – May	Nov – June	
WH	Wehadkee-Chewacla	Nov – May	Nov – June	
WoB	Worsham	Nov – May		

MAP LEGEND



House/Dwelling with a well



Rock Outcrop



Well



Lake/Pond



Slope which exceeds 15%



Intermittent Stream



Stream/River



Agricultural/Drainage Ditch

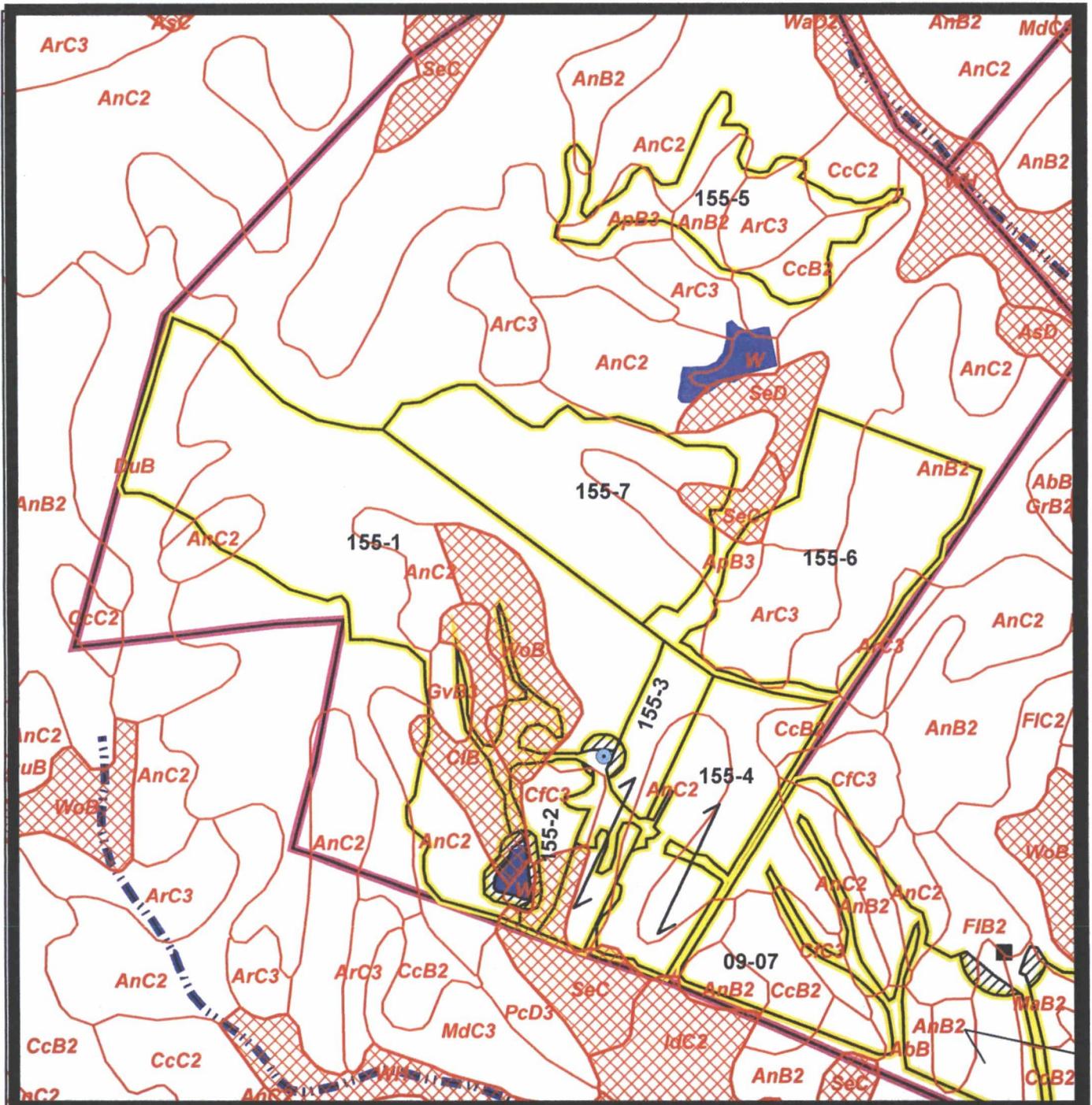


Field boundary



Property Line – (Standard 100'
Buffer, unless waiver issued)

Revised: Jan. 13, '14



SCALE 1:8,000

REVISED 04/24/2014

SOIL MAP

 Environmentally Sensitive Soil



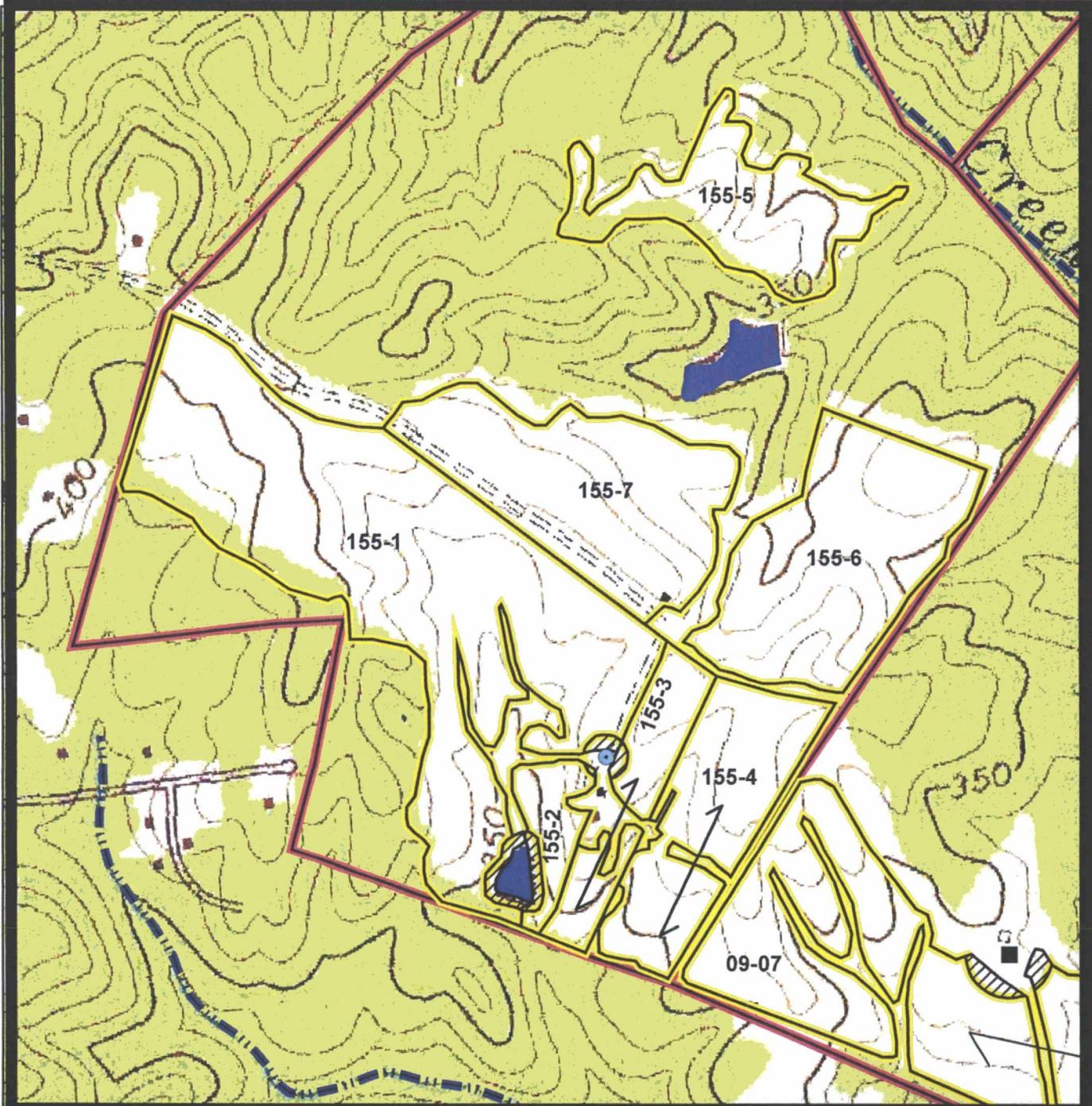
SYNAGRO

Asa Kemp
LO155
Fields 1 - 7



AERIAL MAP





SCALE 1:8,000

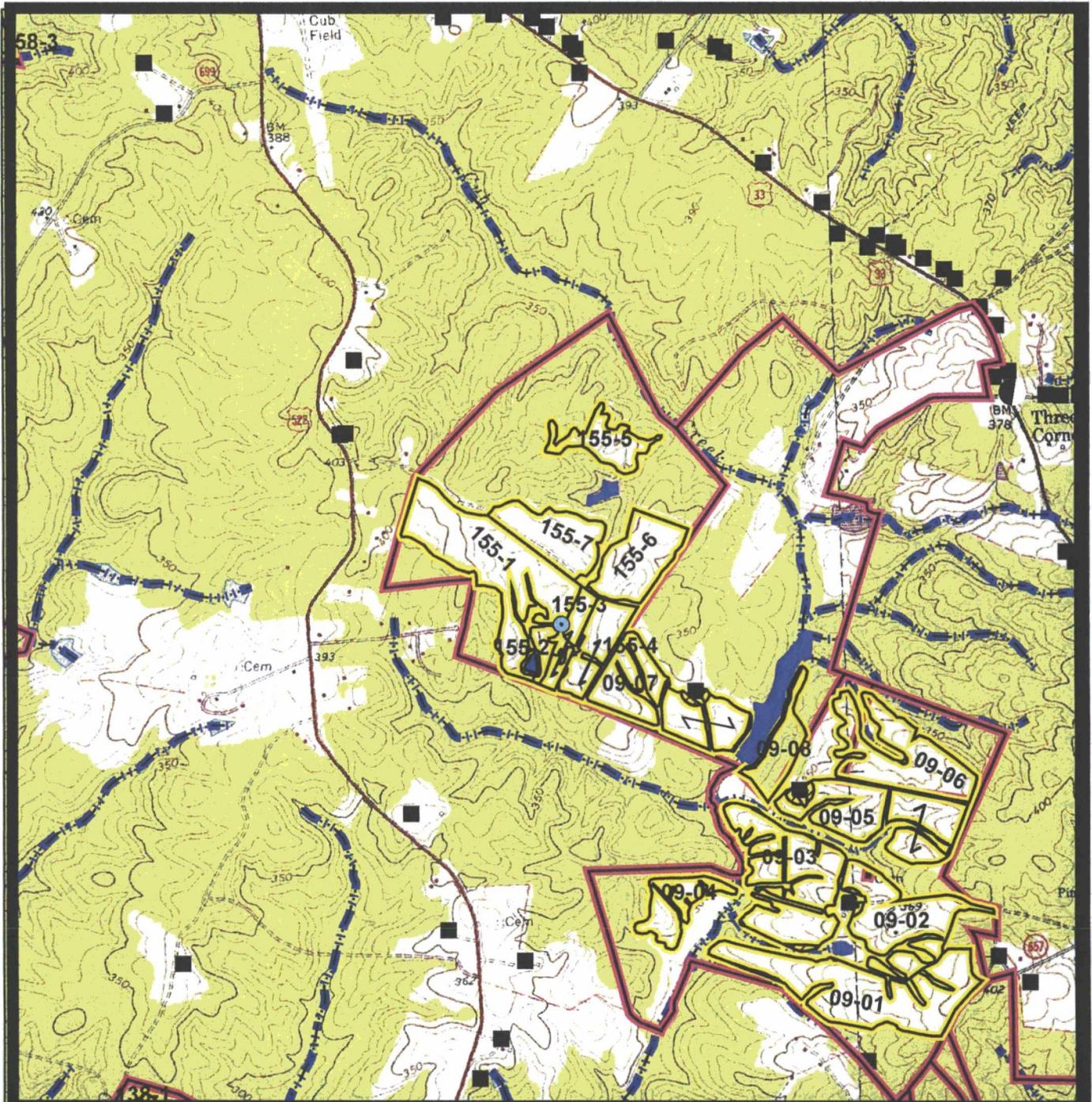
REVISED 04/24/2014

TOPO MAP



SYNAGRO

Asa Kemp
LO155
Fields 1 – 7

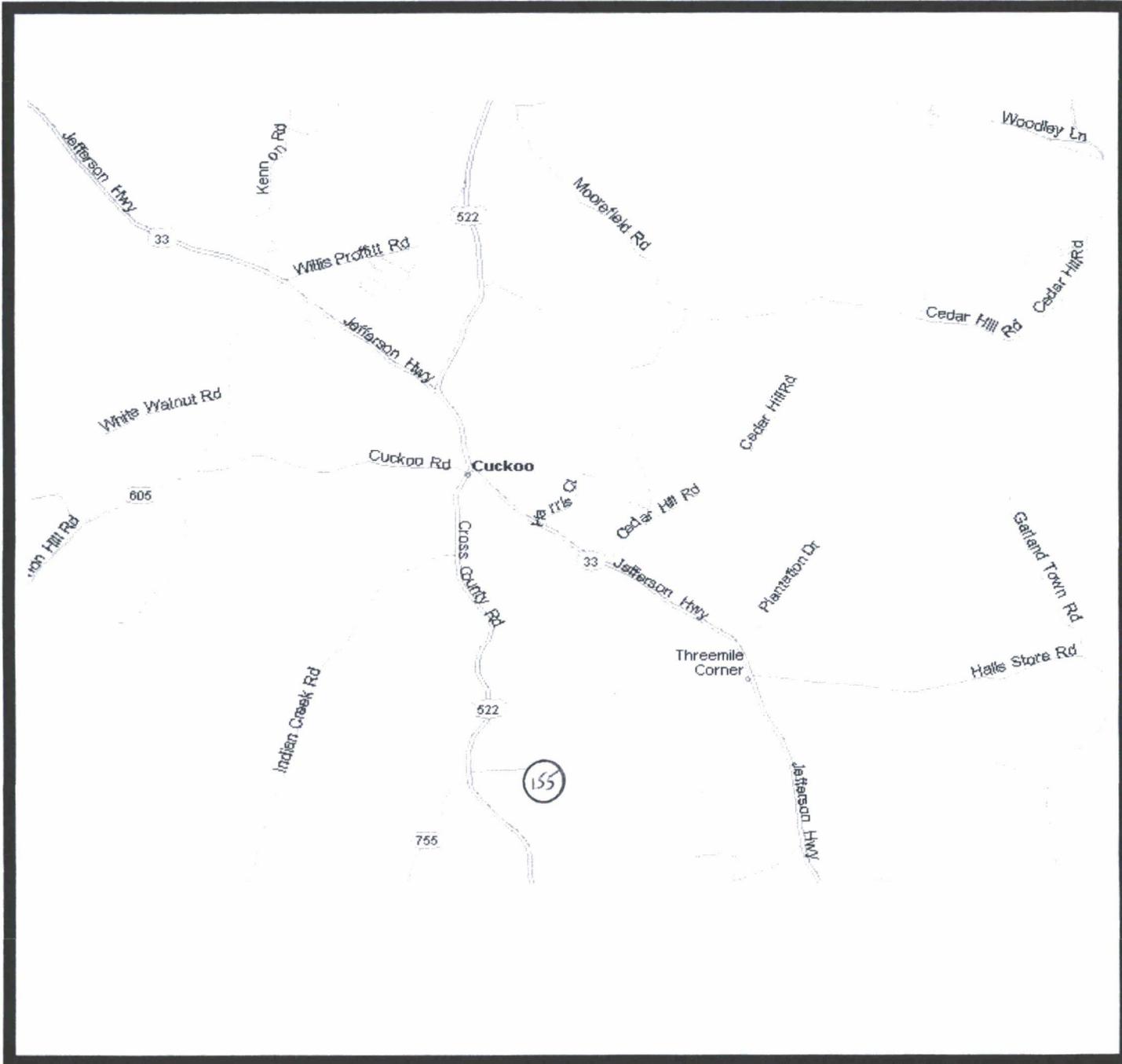


SCALE 1:24,000

REVISED 04/24/2014

TOPO MAP





LOCATION MAP

