

LAND APPLICATION OF BIOSOLIDS  
WESTERN VIEW FARM

CU 13 (FIELDS 1-12)  
CULPEPER COUNTY, VIRGINIA  
MARCH 2015  
Revised AUGUST 2015



March 15, 2014

Mr. Edward Stuart  
Department 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 Western View Farm (designated as CU 13, fields 1-12), located in Culpeper 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 black ink that reads "Carolanne M. Whiteside". The signature is written in a cursive, flowing style.

Carolanne M. Whiteside  
Technical Services Coordinator

# SYNAGRO

## FIELD SUMMARY SHEET

**WESTERN VIEW  
FARM**

**CU13**

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
13-01	17.8	17.8		Agriculture	Western View Plantation LLC
13-02	80.5	80.5		Agriculture	Western View Plantation LLC
13-03	24.2	24.2		Agriculture	Western View Plantation LLC
13-04	36.3	36.3		Agriculture	Western View Plantation LLC
13-05	51.5	51.5		Agriculture	Western View Plantation LLC
13-06	54.4	54.4		Agriculture	Western View Plantation LLC
13-07	82.5	82.5		Agriculture	Western View Plantation LLC
13-08	51.3	51.3		Agriculture	Western View Plantation LLC
13-09	16.6	16.6		Agriculture	Western View Plantation LLC
13-10	119.9	119.9		Agriculture	Western View Plantation LLC
13-11	38.6	38.6		Agriculture	Western View Plantation LLC
13-12	20.6	20.6		Agriculture	Western View Plantation LLC
<b>TOTALS:</b>	594.2	594.2			

VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR: Western View Farm LLC  
Gleanery Farm LLC PHONE: (540) 672-2396

ADDRESS: 21996 Rd Rd Rapidan Va 22783

FARM LOCATION: Baton Rd

FSA TRACT #: \_\_\_\_\_

TOTAL ACRES: 700 COUNTY: Culpeper

CROPS: Hay corn soy beans

1. I agree to be responsible for adhering to the following conditions, where applicable:
  - a. The soil pH will be adjusted  $\geq 6.0$  when biosolids are applied. (This may be accomplished through the application of lime-treated biosolids).
  - b. Do not graze animals on the land for 30 days after the application of biosolids. In addition, animals intended for dairy production should not be allowed to graze on the land or be fed chopped foliage for 60 days after the application of biosolids. Meat-producing livestock should not be fed chopped foliage for 30 days after the application of biosolids.
  - c. Food crops for direct human consumption with harvested parts below the surface of the land shall not be harvested for 14 months after the application of biosolids.
  - d. Food crops for direct human consumption 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  $\geq 4$  months prior to incorporation into the soil or 38 months when the biosolids remain on the land surface  $< 4$  months prior to incorporation.
  - e. Food crops, feed crops and fiber crops shall not be harvested for 30 days after application of biosolids.
  - f. Public access to land with a low potential for public exposure (land the public uses infrequently including but not limited to agricultural land and forests) shall be restricted for 30 days after application of biosolids. Public access to land with a high potential for public exposure (land the public uses frequently including but not limited to a public contact site such as parks, playgrounds and golf courses) shall be restricted for 1 year. No biosolids-amended soil shall be excavated or removed from the site for 30 days following the biosolids application unless adequate provisions are made to prevent public exposure to soils, dusts or aerosols.
  - g. 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.
  - h. Supplemental commercial fertilizer or manure applications should be coordinated with the biosolids applications such that the total crop needs for nutrients are not exceeded as identified on the nutrient balance sheet or the nutrient management plan approved by the Virginia Department of Conservation and Recreation to be supplied to the farm operator by Synagro at the time of application of biosolids to a specific permitted site.
  - i. Tobacco, because it has been shown to accumulate cadmium, should not be grown for three years following the application of biosolids-borne cadmium equal to or exceeding 0.45 lbs/acre.
2. I understand that this transaction is not contemplated by the parties to be a sale of goods, and that Synagro is willing to provide to me without charge the service of land applying biosolids which have been approved by the appropriate regulatory agencies for land application.
3. I understand that successful crop production depends on many variables, such as weather, soil conditions and specific farming practices and that while Synagro has experience with land application of biosolids, the responsibility for properly accommodating agricultural practices to biosolids utilization are solely mine. I have also read and understand the "Important Information About Using Biosolids as a Fertilizer" which is on the reverse side and incorporated by reference in this Request and Consent.

Robert T. Noyes II  
OPERATOR'S SIGNATURE

3-10-15  
DATE

## IMPORTANT INFORMATION ABOUT USING BIOSOLIDS AS A FERTILIZER

### Biosolids Generation

Biosolids are the accumulated, treated solids separated from water during the treatment of wastewater by public and private wastewater treatment plants (Generators). The Generator is responsible for supplying biosolids that are suitable for land application under state and federal regulations.

### Benefits of Biosolids

Biosolids provide nitrogen in a form that can be taken up by plants during their growth cycle. Biosolids also add phosphorus to the soil. If lime is added to biosolids, the biosolids will have the added benefit of a liming agent. Biosolids contain primary, secondary and micronutrients that can be used by plants. Biosolids are primarily an organic material; when added to soil, they improve water and nutrient retention, reduce erosion potential and improve soil structure.

### The Permitting Process

Once the farm operator requests biosolids, a Synagro representative initially evaluates the farm for truck access and field conditions. If the farm is found to be suitable and the Request for Biosolids and the Consent for Biosolids forms are signed, Synagro will collect soil samples and have them analyzed by an independent laboratory.

Synagro will then apply for any federal, state or local permits required for biosolids application. The permits will specifically identify the fields to which biosolids will be applied and will be issued to Synagro or the Generator.

After the permits are obtained (a process that may take several months or more) Synagro will apply biosolids, as they become available, to the fields. Availability of biosolids may vary because of weather conditions, contractual arrangements with biosolids generators and other factors. Although the company cannot guarantee biosolids application because of factors beyond its control, Synagro will use its best efforts to apply biosolids to the permitted fields.

The conditions outlined in the permit will apply to any and all biosolids applications made by Synagro. Synagro will not be responsible for biosolids application made by any other entity.

Periodic visits to the land application site(s) by federal, state and local regulatory staff and Synagro representatives may occur for the purpose of permitting the site, inspecting the site, applying biosolids, obtaining samples at the site and testing. Proper identification will be provided upon request.

### Agronomic Considerations

Tractor-trailer units are used to deliver biosolids to the fields approved for biosolids applications. Soil compaction may occur on the travel areas used by the trucks and in areas where biosolids are unloaded for transfer to the applicator vehicle.

Since some biosolids contain lime, it is important to recognize any increase in soil pH where biosolids have been applied and exercise care in using certain herbicides. If considering the use of a sulfonylurea herbicide, particular attention should be paid to any label restrictions. High soil pH and dry weather may slow decomposition of these chemicals, resulting in carryover. For soils with low manganese levels, increased soil pH from lime addition (alone or in lime treated biosolids) may reduce manganese availability and thereby potentially reduce crop yields.

In planning a herbicide program, it should be noted that seeds may sometimes survive the biosolids treatment process — for example, tomato seeds. Also, the organic matter additions from biosolids application (organic matter tends to tie up certain herbicides) may require increased herbicide application rates. Consult your extension agent or chemical representative for a specific recommendation.

Biosolids contain salts. Biosolids applications alone rarely cause salt problems. However, if combined with other significant salt-increasing factors, such as drought, excessive soil compaction, saline irrigation water and salt-containing fertilizers, salts may reach levels that could negatively affect germination and growth of some crops.

While odors from biosolids applications are not usually significant, and typically less than that from livestock manure, it is possible that an odor from the decomposition of organic matter may be noticed. If this occurs, it generally disappears in a short time.

Since biosolids provide nitrogen that will be released slowly throughout the growing season with diminishing carryover in subsequent years, it is important to reduce the use of nitrogen and other fertilizers to appropriate levels.



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

Permittee: Synagro County or City: Colpeper  
Landowner: Wester View Plants, LLC

**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).

Robert T. Neuman Jr 3-10-15  
Landowner's Signature Date

**TAX ID LANDOWNER IDENTIFICATION SHEET**

<b>Landowner</b>	<b>Field Number</b>	<b>Tax ID</b>
Western View Plantation LLC	13-01	66 54
Western View Plantation LLC	13-02	66 54
Western View Plantation LLC	13-03	66 54
Western View Plantation LLC	13-04	66 54
Western View Plantation LLC	13-05	66 54
Western View Plantation LLC	13-06	66 54
Western View Plantation LLC	13-07	66 54
Western View Plantation LLC	13-08	66 54
Western View Plantation LLC	13-09	66 54
Western View Plantation LLC	13-10	66 54
Western View Plantation LLC	13-11	66 54
Western View Plantation LLC	13-12	66 54

<b>Field Number</b>	<b>Latitude (North)</b>	<b>Longitude (West)</b>
13-01	38.402°	77.861°
13-02	38.399°	77.862°
13-03	38.396°	77.865°
13-04	38.396°	77.869°
13-05	38.394°	77.865°
13-06	38.390°	77.864°
13-07	38.390°	77.867°
13-08	38.382°	77.867°
13-09	38.397°	77.858°
13-10	38.398°	77.855°
13-11	38.392°	77.873°
13-12	38.395°	77.858°

**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.



# Farm Summary Report

**Plan:** New Plan Spring, 2015 - Summer, 2016

**Farm Name:** Western View Plantation

Location: Culpeper

Specialist: Wayne T Webb Jr

N-based Acres: 0.0

P-based Acres: 0.0

**Tract Name:** 66-54

FSA Number: 0

Location: Culpeper

**Field Name:** 1

Total Acres: 17.8 Usable Acres: 17.8

FSA Number: 0

Tract: 66-54

Location: Culpeper

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
65	45C	Nestoria Penn
10	45B	Nestoria Penn
21	16B	Dulles Nestoria
4	11B	Codorus Meadowville

## **Field Warnings:**

*Environmentally Sensitive Soils due to:*

*Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock*

**Field Name:** 2  
Total Acres: 80.5 Usable Acres: 80.5  
FSA Number: 0  
Tract: 66-54  
Location: Culpeper  
Slope Class: B 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
58	45B	Nestoria Penn
4	45C	Nestoria Penn
16	16B	Dulles Nestoria
17	55C	Yellowbottom
4	55B	Yellowbottom
1	11B	Codorus Meadowville

**Field Warnings:**

**Field Name:** 3  
Total Acres: 24.2 Usable Acres: 24.2  
FSA Number: 0  
Tract: 66-54  
Location: Cutpeper  
Slope Class: B 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
74	45B	Nestoria Penn
13	16B	Dulles Nestoria
11	55C	Yellowbottom
2	55B	Yellowbottom

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

*Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock*

**Field Name:** 4  
Total Acres: 36.30 Usable Acres: 36.30  
FSA Number: 0  
Tract: 66-54  
Location: Culpeper  
Slope Class: A 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
4	45C	Nestoria Penn
12	45B	Nestoria Penn
6	12A	Codorus
78	10A	Codorus Hatboro

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

*Soils with high potential for subsurface lateral flow based on soil texture and poor drainage*

*Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock*

**Field Name:** 5  
 Total Acres: 51.5 Usable Acres: 51.5  
 FSA Number: 0  
 Tract: 66-54  
 Location: Culpeper  
 Slope Class: B 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
3	11B	Codorus Meadowville
3	16B	Dulles Nestoria
43	45B	Nestoria Penn
6	45C	Nestoria Penn
1	45D	Nestoria Penn
1	48C	Penn Rapidan
8	55B	Yellowbottom
35	55C	Yellowbottom

**Field Warnings:**

**Field Name:** 6  
Total Acres: 54.4 Usable Acres: 54.4  
FSA Number: 0  
Tract: 66-54  
Location: Culpeper  
Slope Class: B 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
7	11B	Codorus Meadowville
35	21B	Delanco Elsinboro
7	24B	Flume
15	26B	Germannanna
1	45B	Nestoria Penn
35	48C	Penn Rapidan

**Field Warnings:**

**Field Name:** 7  
Total Acres: 82.5 Usable Acres: 82.5  
FSA Number: 0  
Tract: 66-54  
Location: Culpeper  
Slope Class: B 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
18	21B	Delanco Elsinboro
50	26B	Germannanna
10	26C	Germannanna
16	45C	Nestoria Penn
6	45D	Nestoria Penn

**Field Warnings:**

**Field Name:** 8  
 Total Acres: 51.3 Usable Acres: 51.3  
 FSA Number: 0  
 Tract: 66-54  
 Location: Culpeper  
 Slope Class: A 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
99	13A	Comus
1	12A	Codorus

**Field Warnings:**

**Field Name:** 9  
 Total Acres: 16.6 Usable Acres: 16.6  
 FSA Number: 0  
 Tract: 66-54  
 Location: Culpeper  
 Slope Class: B 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
45	55C	Yellowbottom
35	55B	Yellowbottom
11	45B	Nestoria Penn
5	24B	Flume
4	11B	Codorus Meadowville

**Field Warnings:**

**Field Name:** 10  
Total Acres: 119.90 Usable Acres: 119.90  
FSA Number: 0  
Tract: 66-54  
Location: Culpeper  
Slope Class: B 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
37	55C	Yellowbottom
33	24B	Flume
14	44B	Penhook
13	55B	Yellowbottom
3	11B	Codorus Meadowville

**Field Warnings:**

**Field Name:** 11  
Total Acres: 38.6 Usable Acres: 38.6  
FSA Number: 0  
Tract: 66-54  
Location: Culpeper  
Slope Class: B 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
68	10A	Codorus Hatboro
24	45B	Nestoria Penn
8	45C	Nestoria Penn

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

*Soils with high potential for subsurface lateral flow based on soil texture and poor drainage*

*Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock*

**Field Name:** 12  
Total Acres: 20.60 Usable Acres: 20.60  
FSA Number: 0  
Tract: 66-54  
Location: Culpeper  
Slope Class: B 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
83	24B	Flume
12	55B	Yellowbottom
5	55C	Yellowbottom

**Field Warnings:**

## ENVIRONMENTALLY SENSITIVE AREAS

Field	Reason for Sensitive Area
13-01	Shallow (Map Units 45B, 45C - 75%) High Water Table (Map Units 11B, 16B - 25%)
13-02	Shallow (Map Units 45B, 45C - 62%) High Water Table (Map Units 11B, 16B - 17%)
13-03	Shallow (Map Unit 45B - 74%) High Water Table (Map Unit 16B - 13%)
13-04	Shallow (Map Units 45B, 45C -16%) Flooded Soils (Map Unit 10A -78%) High Water Table (Map Unit 10A - 78%)
13-05	Shallow (Map Units 45B, 45C - 49%) High Water Table (Map Units 11B, 16B - 6%)
13-06	Shallow (Map Unit 45B - 1%) High Water Table (Map Units 11B - 7%)
13-07	Shallow (Map Unit 45C - 16%)
13-08	Shallow (Map Unit 45C - 16%) High Water Table (Map Units 12A - 1%)
13-09	Shallow (Map Unit 45B - 11%) High Water Table (Map Units 11B - 4%)
13-10	High Water Table (Map Units 11B - 3%)
13-11	Shallow (Map Units 45B, 45C -90%) Flooded Soils (Map Unit 10A -10%) High Water Table (Map Unit 10A - 10%)
13-12	None

### Culpeper County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
3D, 3E	Blocktown-Yellowbottom			Shallow
5B	Catoctin-Fletcherville			Shallow
6C, 6B	Catoctin-Alanthus			Shallow
7E	Catoctin-Alanthus(Rock)	Nov-April		Shallow
10A	Codorus-Hatboro	Nov-April	Dec-April	
11B	Codorus-Meadowville	Nov-April		
12A	Codorus	Nov-April	Dec-April	
13A	Comus		Jan-May	
15A	Dulles-Kinkora	Dec-April		
16A, 16B	Dulles-Nestoria	Nov-March		
20A	Elbert	Nov-March		
30C, 31D, 31E	Griffinsburg-Edgemont			Shallow
38A, 38B	Jackland-Haymarket	Dec-April		
39A, 39B	Jackland-Haymarket	Dec-April		
45B, 45C	Nestoria-Penn			Shallow
51A	Sycoline-Kelly	Nov-May		

# Map Legend



House/Dwelling with a well

- 200' buffer-dwelling (with conditions for reduction);
- 100' buffer-well



Rock Outcrop

- 25' buffer



Limestone Outcrop / Closed Sinkholes

- 50' buffer



Well

- 100' buffer



Lake/Pond

- 35' w/vegetative buffer; 100' without vegetative buffer



Slope which exceeds 15%



"PAS" - Publicly Accessible Site

- 200' buffer



Intermittent Stream

- 35' w/vegetative buffer; 100' without vegetative buffer



Stream/River

- 35' w/vegetative buffer; 100' without vegetative buffer



Agricultural/Drainage Ditch

- 10' buffer

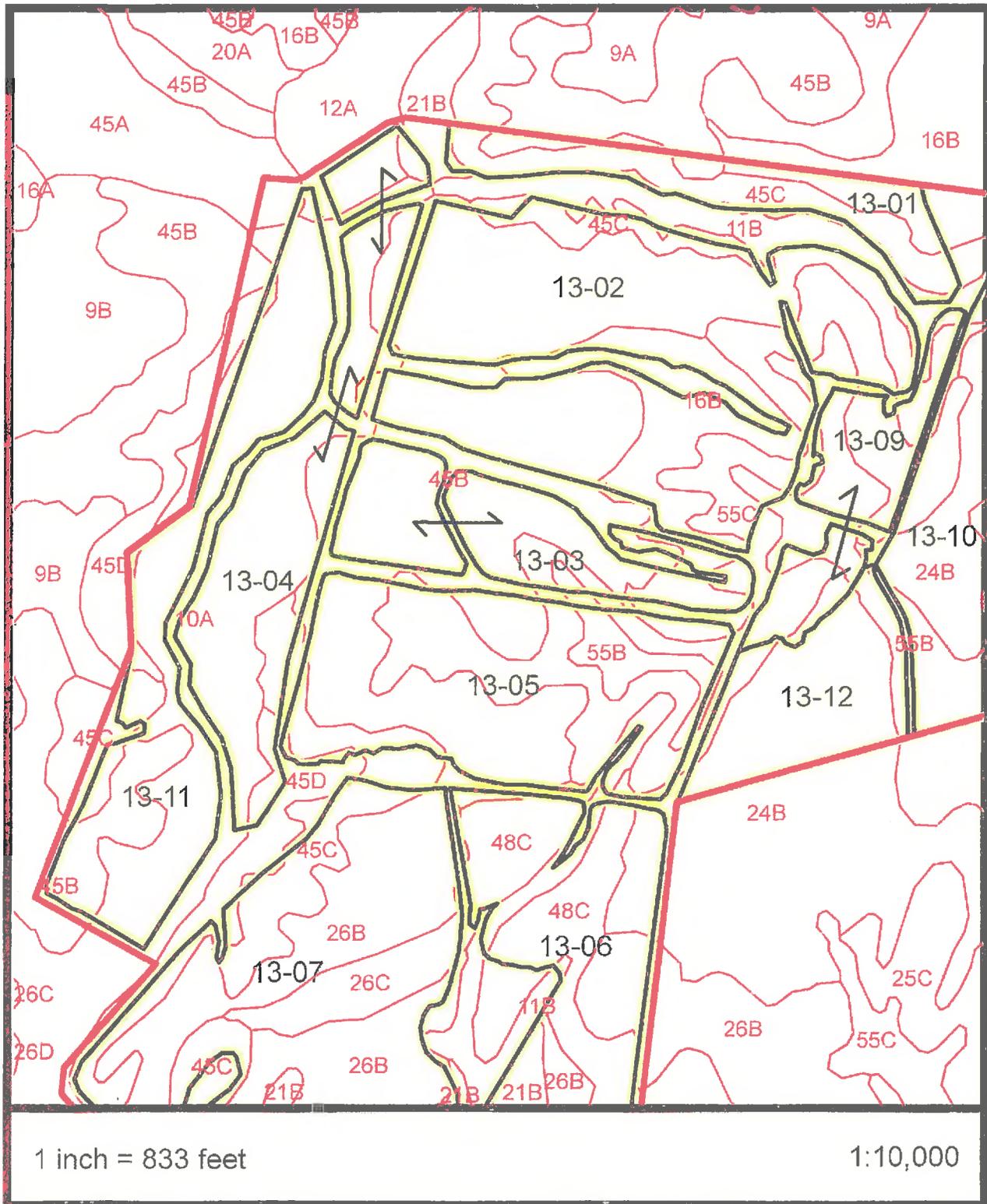


Field Boundary



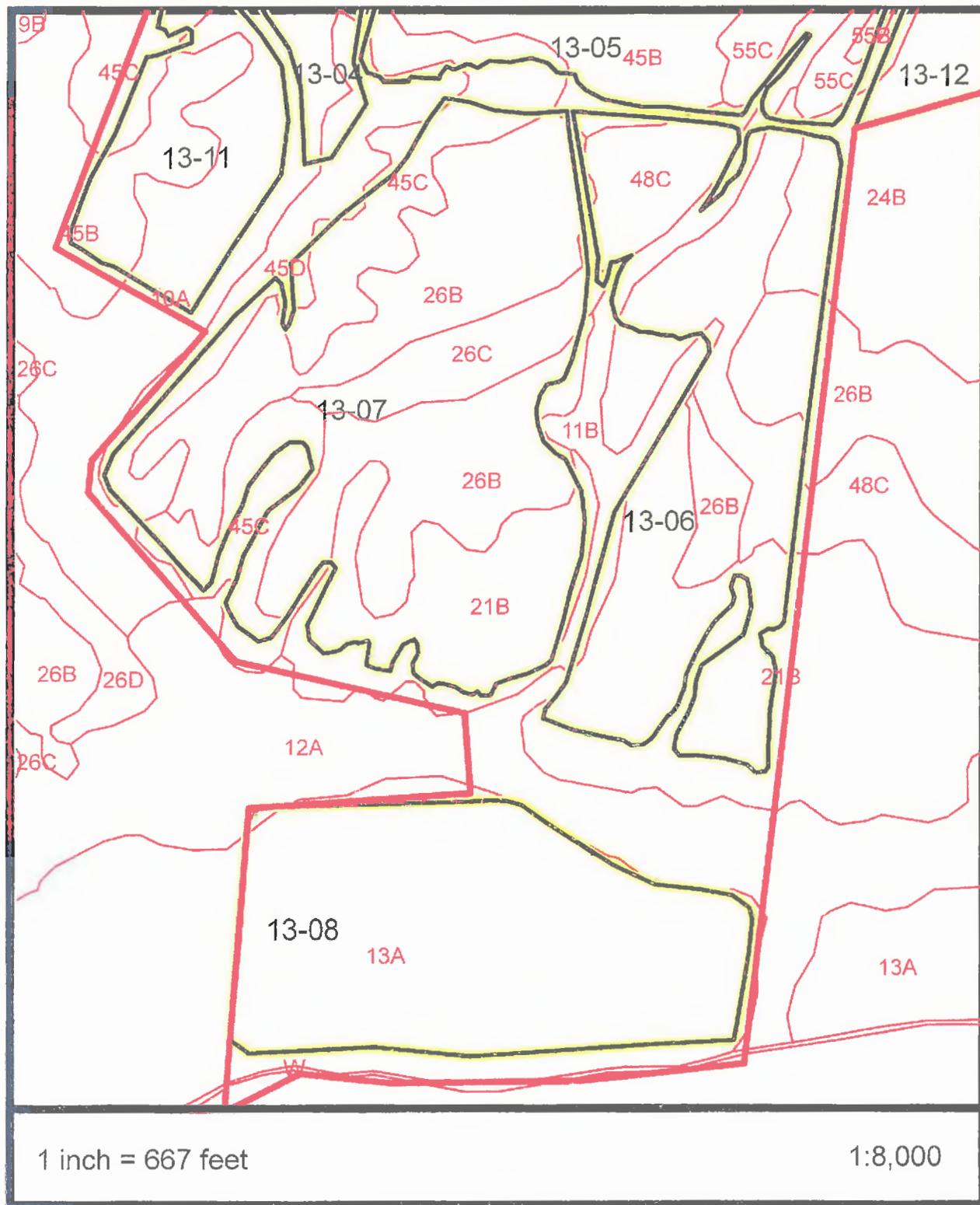
Property Line

- 100' buffer unless waiver issued



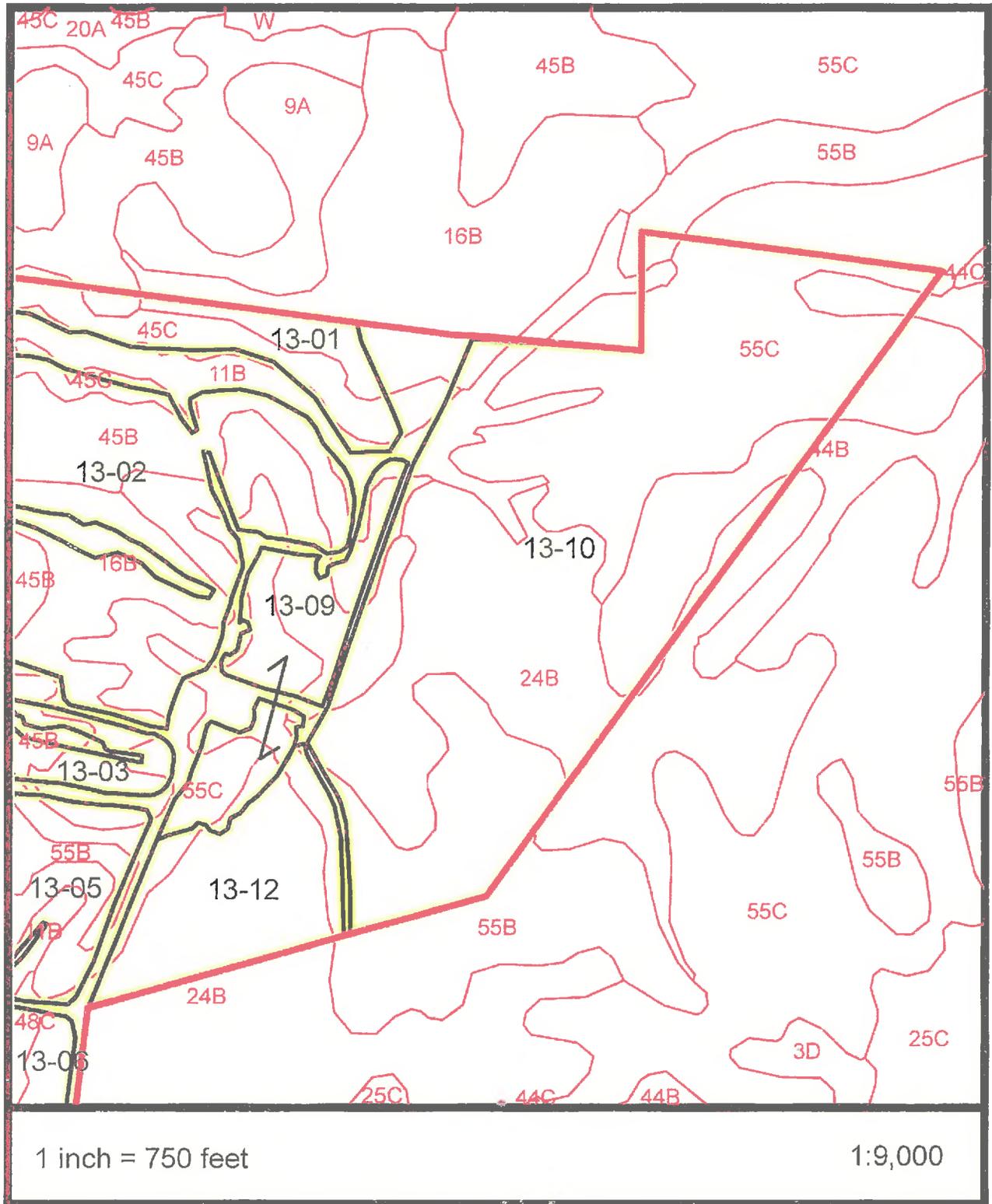
SOIL MAP





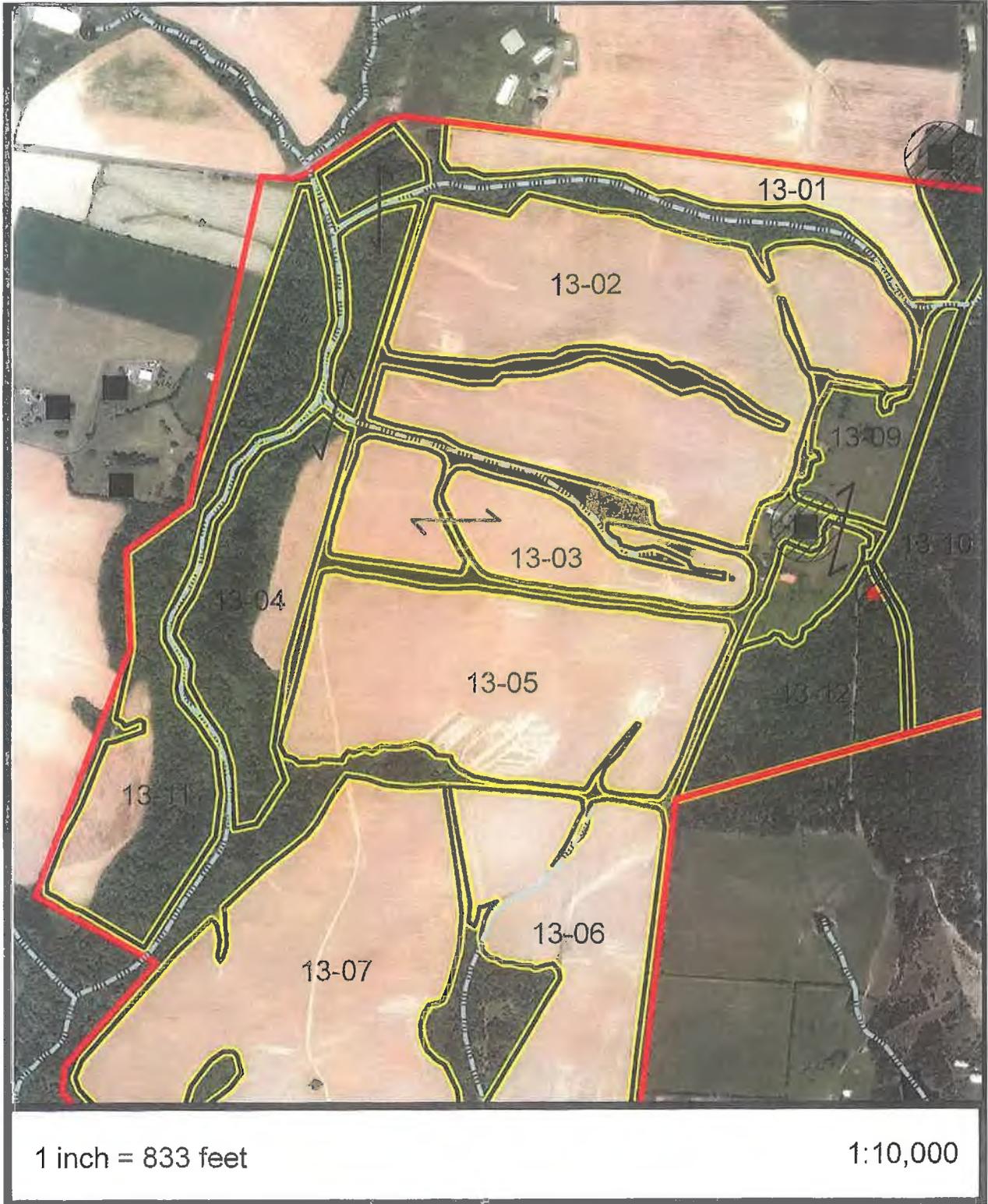
SOIL MAP





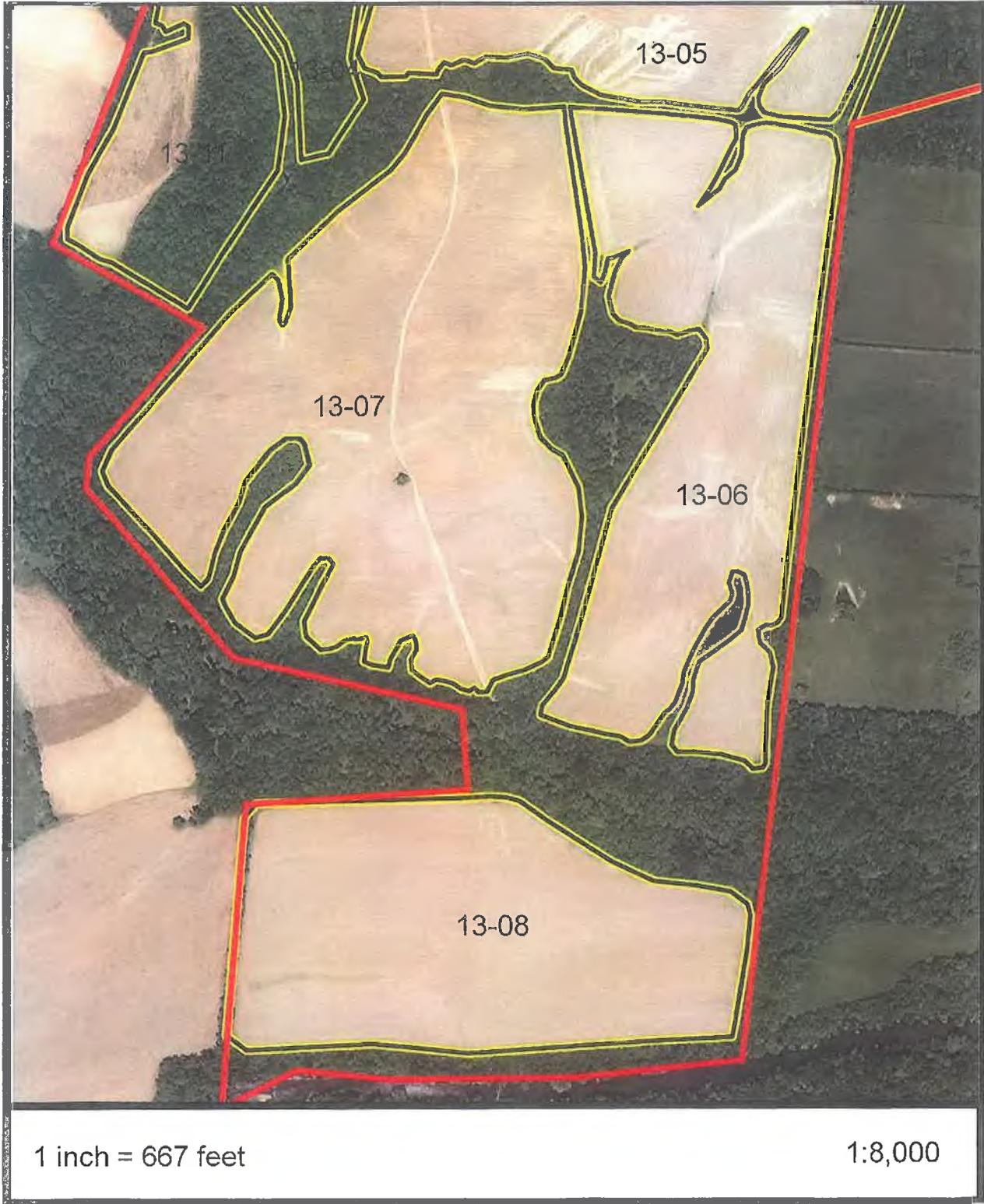
SOIL MAP





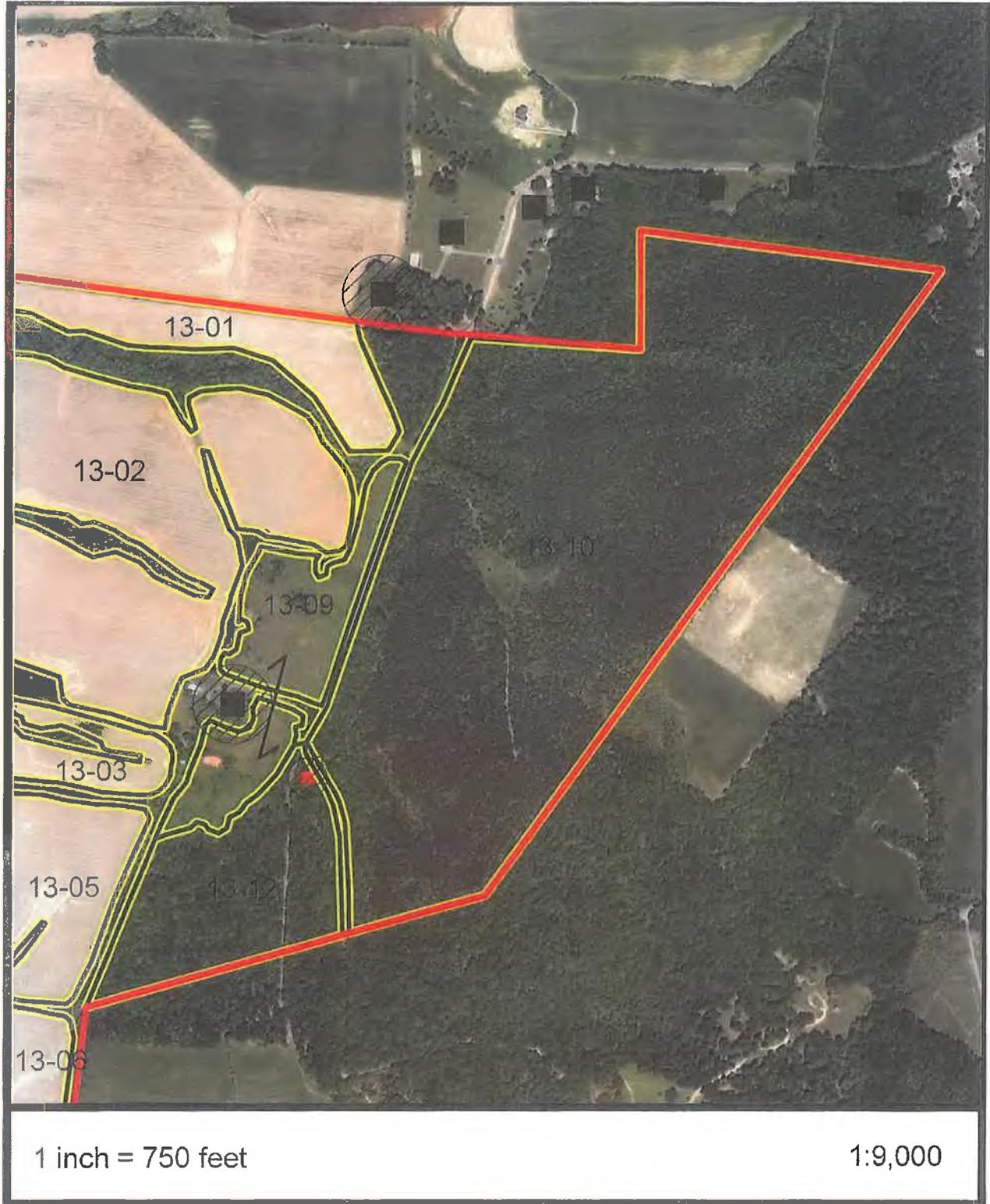
AERIAL MAP





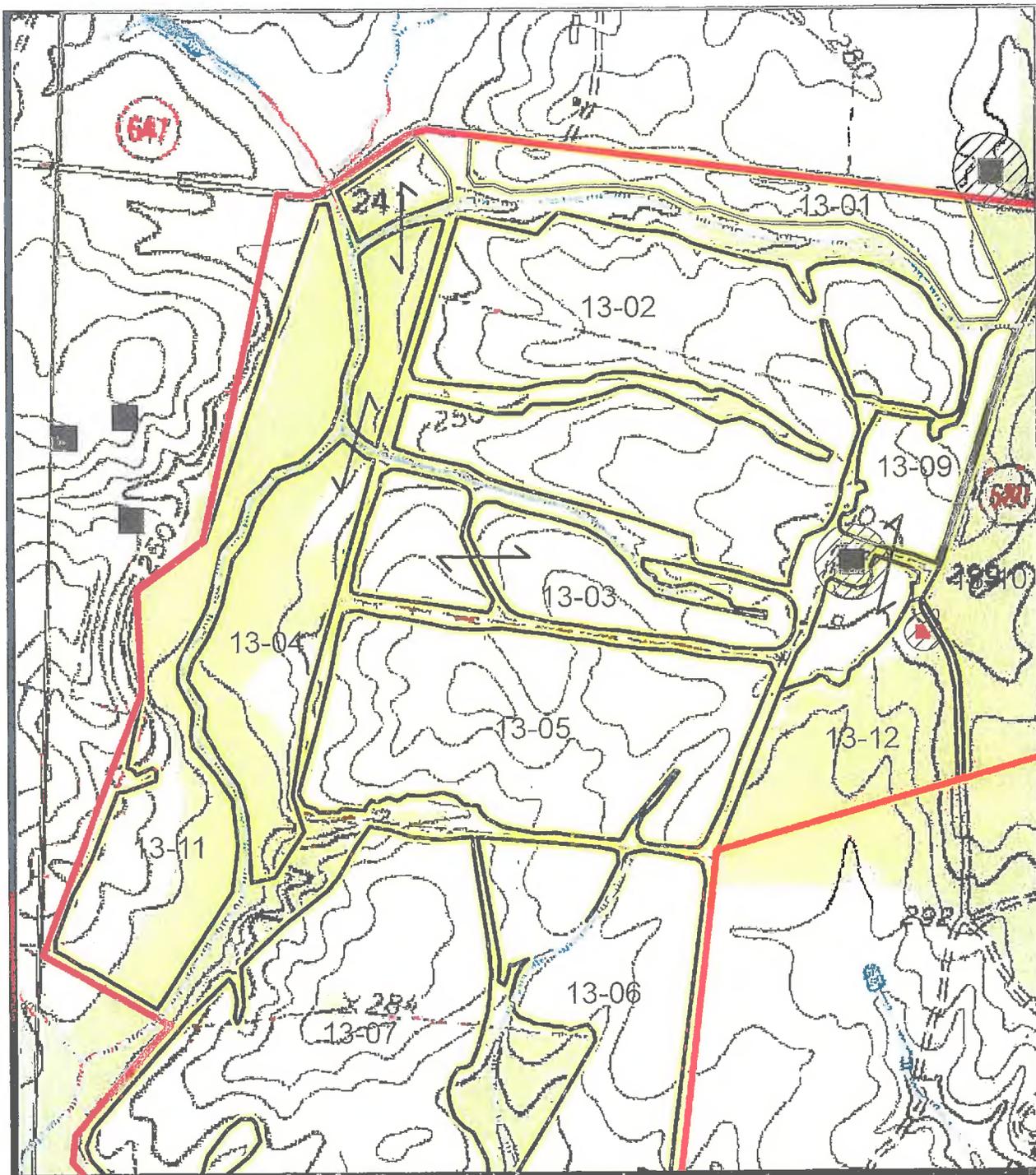
AERIAL MAP





AERIAL MAP





1 inch = 833 feet

1:10,000

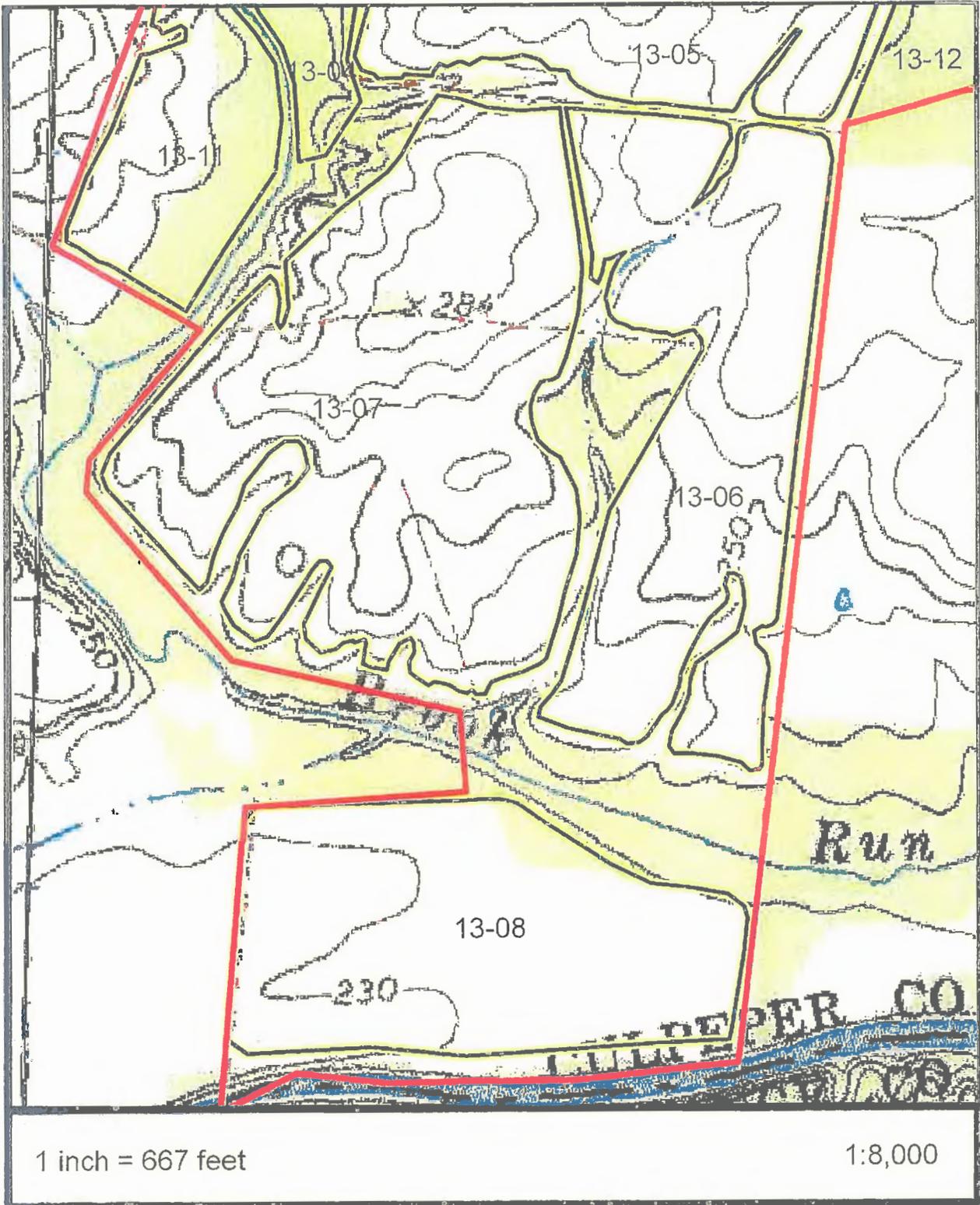
FIELD	ACRES
13-01	17.8
13-02	80.5
13-03	24.2

### TOPO MAP

FIELD	ACRES
13-04	36.3

FIELD	ACRES
13-05	51.5
13-09	16.6
13-11	38.6

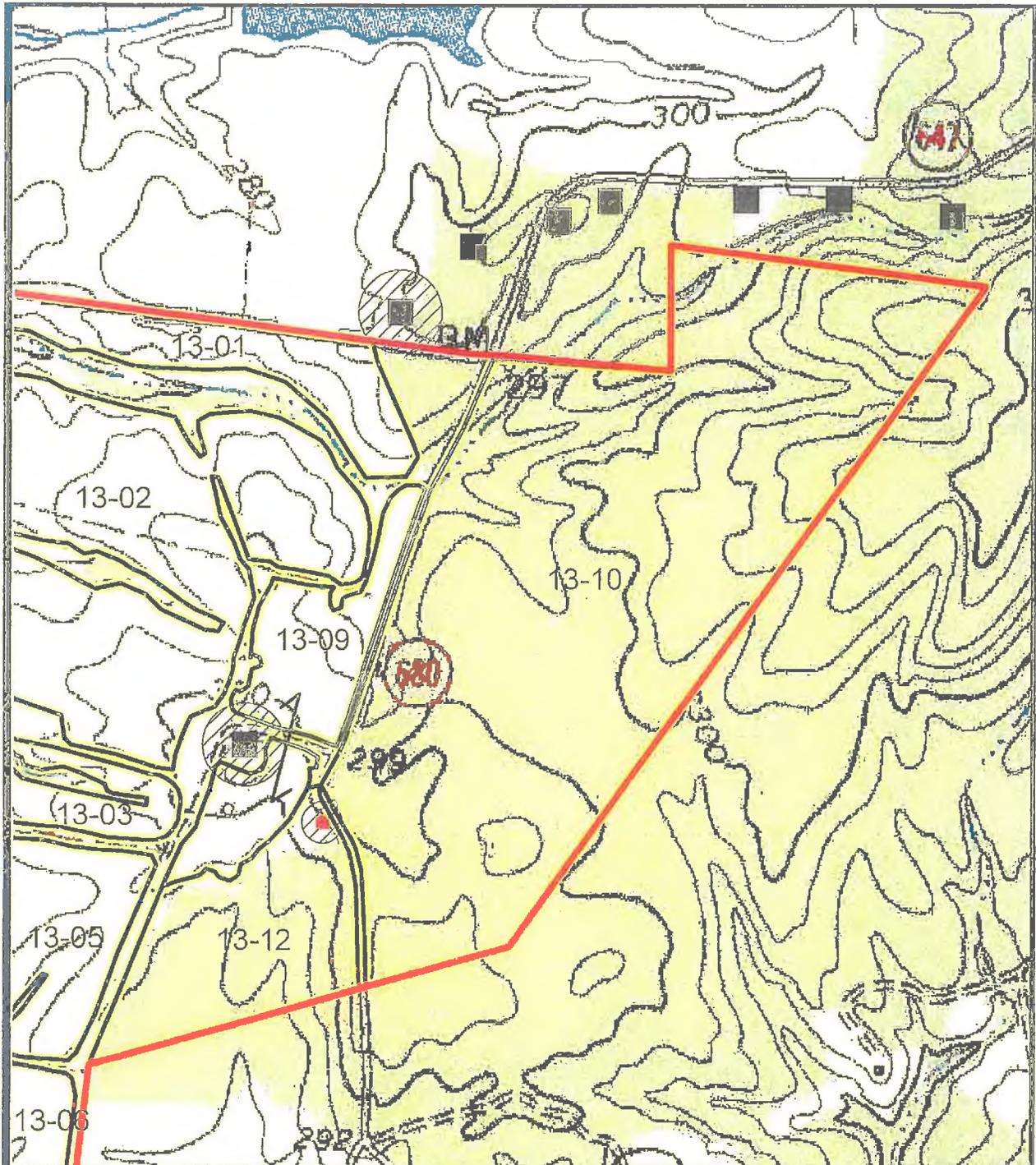




FIELD	ACRES
13-06	54.4
13-07	82.5
13-08	51.3

TOPO MAP





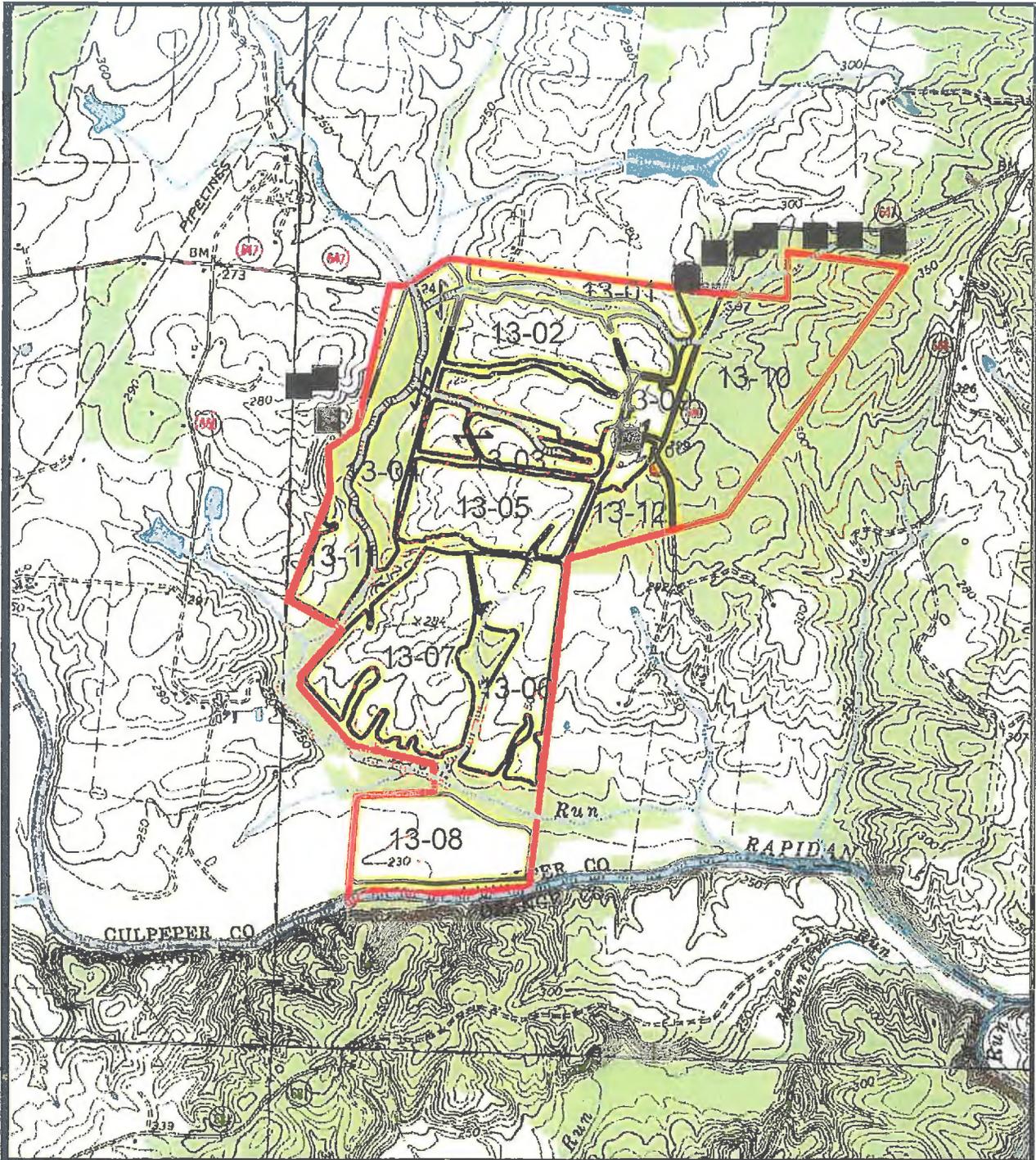
1 inch = 750 feet

1:9,000

FIELD	ACRES
13-10	119.9
13-12	20.6

TOPO MAP



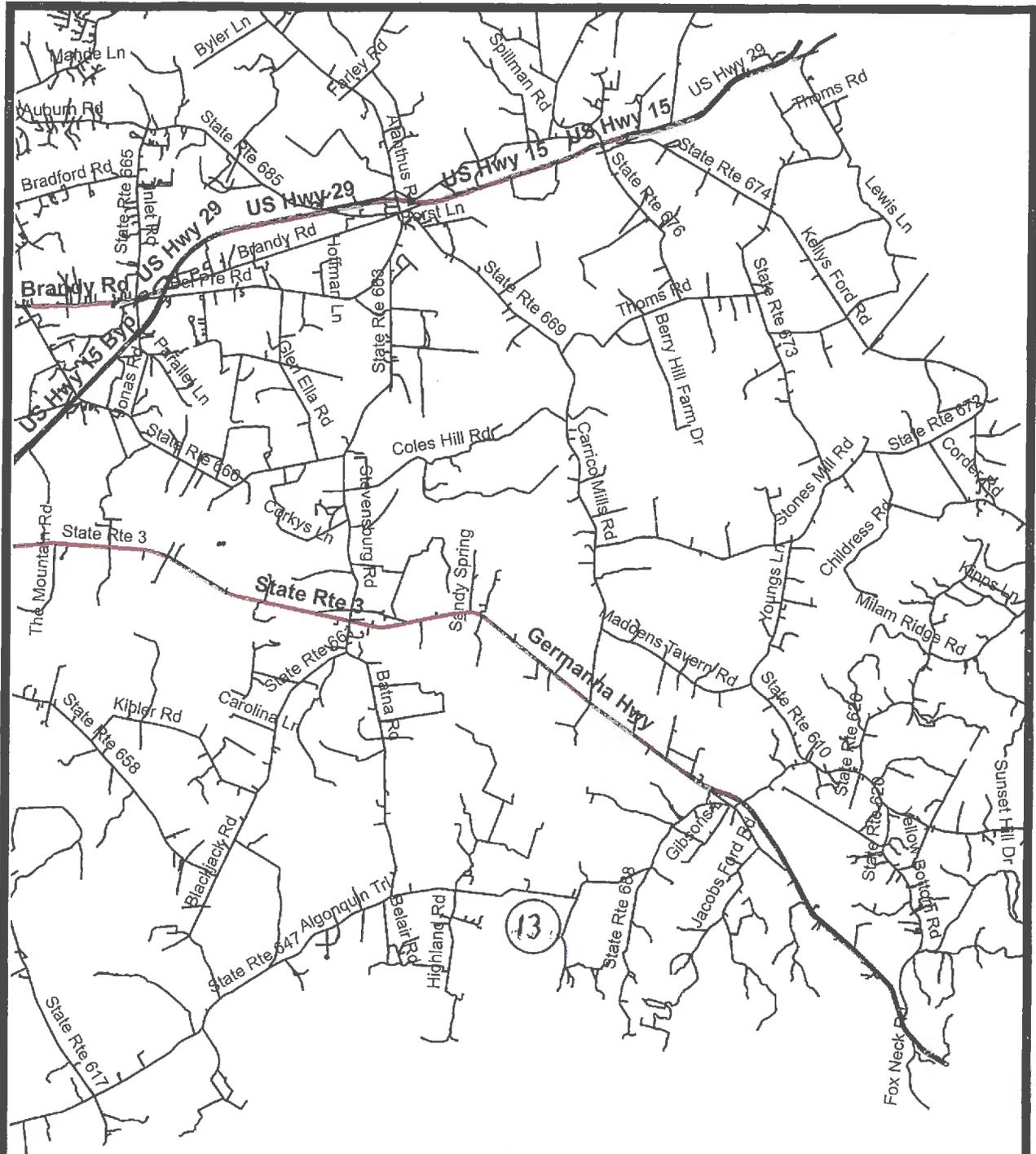


1 inch = 2,000 feet

1:24,000

TOPO MAP





1 inch = 8,333 feet

1:100,000

## LOCATION MAP

