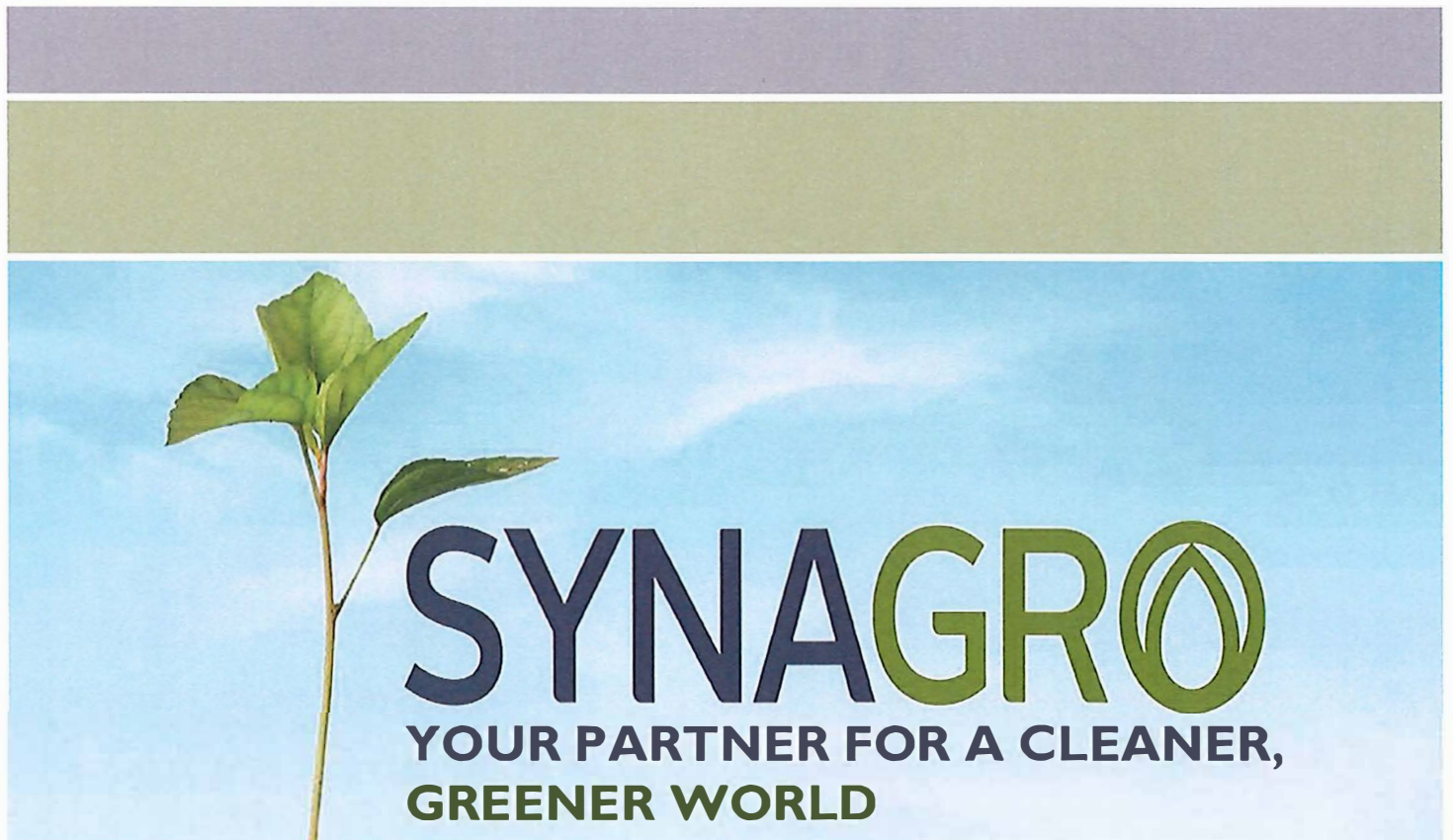


LAND APPLICATION OF BIOSOLIDS  
HARRY SHEPHERD

OR 82 (FIELDS 01, 04-07, 09-11,  
15-16, 18-20, 22-26)  
ORANGE COUNTY, VIRGINIA  
JULY 2024



**SEPTEMBER 25, 2024**

**Mr. John Thompson**  
**Department of Environmental Quality**  
**Northern Virginia Regional Office**  
**13901 Crown Court**  
**Woodbridge, Virginia 22193**

Dear Mr. Thompson,

Transmitted herein for your consideration is land application site for Harry Shepherd (designated as OR 82, fields 01, 04-07, 09-11, 15-16, 18-20, 22-26), located in Orange 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 (410) 553-7217 should you have any questions or require additional information.

Sincerely,



Carolanne M. Whiteside  
Technical Services Coordinator



# FIELD SUMMARY SHEET

# Harry Shepherd

**OR 82**

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
82-01	37.6	37.6		Agriculture	P W Hiden, LLC
82-04	23.8	23.8		Agriculture	P W Hiden, LLC
82-05	18.8	18.8		Agriculture	P W Hiden, LLC
82-06	40.7	40.7		Agriculture	P W Hiden, LLC
82-07	20.6	20.6		Agriculture	P W Hiden, LLC
82-09	16.7	16.7		Agriculture	P W Hiden, LLC
82-10	16.9	16.9		Agriculture	P W Hiden, LLC
82-11	36.6	36.6		Agriculture	P W Hiden, LLC
82-15	6.1	6.1		Agriculture	P W Hiden, LLC
82-16	2.7	2.7		Agriculture	P W Hiden, LLC
82-18	27.4	27.4		Agriculture	P W Hiden, LLC
82-19	12.9	12.9		Agriculture	P W Hiden, LLC
82-20	51.3	51.3		Agriculture	P W Hiden, LLC
82-22	29.9	29.9		Agriculture	P W Hiden, LLC
82-23	51.3	51.3		Agriculture	P W Hiden, LLC
82-24	14.6	14.6		Agriculture	P W Hiden, LLC
82-25	26.7	26.7		Agriculture	P W Hiden, LLC
82-26	31.2	31.2		Agriculture	Katherine I Deane
TOTALS:	465.8	465.8			07/03/2024

**Changes to field acreages**

<b>SYNAGRO FIELD #</b>	<b>OLD FIELD</b>	<b>OLD ACRES</b>	<b>NEW ACRES</b>	<b>NET ACRES CHANGE</b>	<b>REASON FOR CHANGE</b>
82-01	82-01	37.6	37.6	0.0	
	82-02	11.8	0.0	-11.8	combine with 08 into 25
	82-03	11.2	0.0	-11.2	
82-04	82-04	26.8	23.8	-3.0	Footprint (FP)
82-05	82-05	18.8	18.8	0.0	
82-06	82-06	42.7	40.7	-2.0	FP
82-07	82-07	20.6	20.6	0.0	
	82-08	14.9	0.0	-14.9	combine with 02 into 25
82-09	82-09	16.7	16.7	0.0	
82-10	82-10	17.9	16.9	-1.0	FP
82-11	82-11	38.4	36.6	-1.8	FP
82-15	82-15	6.1	6.1	0.0	
82-16	82-16	2.7	2.7	0.0	
82-18	82-18	31.2	27.4	-3.8	FP
82-19	82-19	12.9	12.9	0.0	
82-20	82-20	52.8	51.3	-1.5	FP
82-22	82-22	29.9	29.9	0.0	
82-23	82-23	51.3	51.3	0.0	
82-24	82-24	14.3	14.6	0.3	FP
82-25			26.7	26.7	02+ 08
82-26			31.2	31.2	OR 62-01
<b>TOTALS:</b>		<b>458.6</b>	<b>465.8</b>	<b>7.2</b>	



**Fields with DEQ Control Numbers**

<b>SYNAGRO FIELD #</b>	<b>DEQ Control Number</b>
82-01	51137-00625-0000
82-04	51137-00626-0000
82-05	51137-00624-0000
82-06	51137-00622-0000
82-07	51137-00623-0000
82-09	51137-00613-0000
82-10	51137-00616-0000
82-11	51137-00615-0000
82-15	51137-00614-0000
82-16	51137-00612-0000
82-18	51137-00617-0000
82-19	51137-00618-0000
82-20	51137-00619-0000
82-22	51137-00621-0000
82-23	51137-00620-0000
82-24	51137-00611-0000
82-25	51137-00625-0000
	51137-00627-0000
82-26	51137-00534-0000

# SYNAGRO

## VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR: Harry Shepherd PHONE: (540) 718-1230  
 ADDRESS: 873 Longshot Lane  
 FARM LOCATION: Rt 652 - Barboursville

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

TOTAL ACRES: \_\_\_\_\_ COUNTY: Orange

CROPS: Corn Soybeans Small Grain

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.

Harry Shepherd  
 OPERATOR'S SIGNATURE

12-10-23  
 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  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

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

A. This land application agreement is made on 11/15/2023 between P W Hidden, LLC referred to here as "Landowner", and Synagro Central, LLC, 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 Orange Co., Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, 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
05500000000540			

☐ 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	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No

Printed name: P W Hidden, LLC	<b>Mailing Address</b> P O Box 125 Barboursville, VA 22923	<b>Landowner Signature</b> <i>Brooke Williams</i>
By: <i>Brooke Williams</i>	<b>Phone No.</b> <i>540 718 1236</i>	<i>POA Suzanne McMullan</i>
Title* <i>POA for Suzanne McMullan</i>		
* <input checked="" type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
* I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

**Permittee:**

Synagro Central, LLC, 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.

Printed name Jeff Douthit	Mailing Address: 1681 Tappahannock Blvd Tappahannock, VA 22560	Permittee- Authorized Representative Signature <i>Jeff Douthit</i>
Title: Technical Services Specialist	Phone No.: 804-443-2071	

**PLEASE SIGN BOTH PAGES**



Permittee: Synagro Central, LLCCounty or City: OrangeLandowner: P W Hidden 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).

Brooke Williams  
Landowner's Signature

POA for  
Suzanne McMurran

11/15/2023  
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 12/26/23 between Katherine I Deane referred to here as "Landowner", and Synagro Central, LLC, 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 Orange Co., Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, 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
054000000193A			

☐ 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	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No

Printed name: Katherine I Deane	Mailing Address P O Box 23 Barboursville, VA 22923	Landowner Signature 
By: Title* ---	Phone No. <u>540-832-3714</u>	
* <input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
* <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

**Permittee:**

Synagro Central, LLC, 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.

Printed name Jeff Douthit	Mailing Address: 1681 Tappahannock Blvd Tappahannock, VA 22560	Permittee- Authorized Representative Signature 
Title: Technical Services Specialist	Phone No.: 804-443-2071	

**PLEASE SIGN BOTH PAGES**



Permittee: Synagro Central, LLCCounty or City: OrangeLandowner: Katherine I Deane**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).

Katherine I Deane  
Landowner's Signature

12-26-23  
Date



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

## Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A *Land Application Agreement - Biosolids and Industrial Residuals* form with original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

This form is not required when Form D - VPA Permit Application Workbook, Tabs 13.a and/or 13.b, are submitted. The information on that form supersedes the need to complete this Landowner Coordination Form.

Permittee: Synagro Central, LLC County or City: Orange (OR 82)

Please Print

(Signatures not required on this page)

[illegible]

## PROPERTY

## Parcel Information

Parcel Record Number (PRN) **12682** Town/District **BARBOUR**

Account Name **P W HIDDEN LLC**

Account Name2

Care Of

Address1 **P O BOX 125**

Address2

City, State Zip **BARBOURSVILLE, VA 22923**

Business Name

## Assessed Values

Type	Current Value	Previous Value
Land Use	\$828,800	\$828,800
Land	\$5,806,300	\$5,806,300
Main Structures	\$941,700	\$941,700
Other Structures	\$118,200	\$118,200
TOTALS	\$6,866,200	\$6,866,200

0 OAK GROVE FARM RD

7377 OAK GROVE FARM RD

Location Address(es) 7629 OAK GROVE FARM RD

16395 WOODROOF RD

17095 WOODROOF RD

## Map Number

Map Insert	Double Circle	Block	Parcel Number
05500	00	00	00540

Total Acres 1,237.95

Deed DB-2006-9903

Additional Deed

Will NONE

Plat NONE

Additional Plat

Route

Legal Desc 1 55-54 &amp; 55 OSE

Legal Desc 2 DE#020003496 OSE DEED

Zoning A; AGRICULTURAL

State Class AGR/UNDEV 100 UP ACR

Topology SLOPES UP

Utilities NONE

## Sales History

Grantor	Sale Price	Instrument	Supporting Document Number	Number of Tracts	Sale Date
---------	------------	------------	----------------------------	------------------	-----------

## PROPERTY

## Parcel Information

Parcel Record Number (PRN) **12531** Town/District **BARBOUR**Account Name **DEANE, KATHERINE I**

Account Name2

Care Of

Address1 **P O BOX 23**

Address2

City, State Zip **BARBOURSVILLE, VA 22923**

Business Name

Location Address(es) **5599 SPOTSWOOD TRL**

## Assessed Values

Type	Current Value	Previous Value
Land Use	<b>\$76,600</b>	<b>\$76,600</b>
Land	<b>\$317,600</b>	<b>\$317,600</b>
Main Structures	<b>\$139,700</b>	<b>\$139,700</b>
Other Structures	<b>\$53,000</b>	<b>\$53,000</b>
TOTALS	<b>\$510,300</b>	<b>\$510,300</b>

## Map Number

Map Insert	Double Circle	Block	Parcel Number
<b>05400</b>	<b>00</b>	<b>00</b>	<b>0193A</b>

Total Acres **36.676**Deed **DG-05-0002402**

Additional Deed

Will **NONE**Plat **NONE**

Additional Plat

Route

Legal Desc 1 **54-193A DEANE**

Legal Desc 2

Zoning **R1; LIMITED RESIDENTIAL**State Class **SINGLE FAMILY SUBURB**Topology **LEVEL**Utilities **NONE**

## Sales History

Grantor	Sale Price	Instrument	Supporting Document Number	Number of Tracts	Sale Date
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No data to display

## Land Segments

<b><u>PIN</u></b>	<b><u>OWNER</u></b>	<b><u>ADDRESS</u></b>	<b><u>CITY</u></b>	<b><u>STATE</u></b>	<b><u>ZIP</u></b>
05400000000600	CAMPBELL, ELLA G ET ALS	8805 JUNALUSKA TERR	CLINTON	MD	20735
05400000000610	JOHNSON, TINA KAREN SHIFFLETT &	18476 CONSTITUTION HWY	ORANGE	VA	22960
05400000000620	LINDSAY, JAMES EDWARD	6780 CONSTITUTION HWY	GORDONSVILLE	VA	22942
0540000000062A	BROCK, ROVENIA M	6770 CONSTITUTION HWY	GORDONSVILLE	VA	22942
05400000001860	BARBOURSVILLE WINERY INC	P O BOX 136	BARBOURSVILLE	VA	22923
05400000001870	CHILL VA LLC	6128 GOV BARBOUR ST	BARBOURSVILLE	VA	22923
05400000001880	CHILL VA LLC	6128 GOV BARBOUR ST	BARBOURSVILLE	VA	22923
05400000001890	WOOD, LARRY P & SHARON W	5464 OLD BARBOURSVILLE RD	GORDONSVILLE	VA	22942
05400000001900	WOOD, LARRY P & SHARON W	5464 OLD BARBOURSVILLE RD	GORDONSVILLE	VA	22942
05400000001910	DAVIES, JAMES R & GAIL A	5484 OLD BARBOURSVILLE RD	GORDONSVILLE	VA	22942
05400000001920	VARNER, CHARLES F	BOX 163	BARBOURSVILLE	VA	22923
05400000001930	HANEY, CHRISTOPHER D & TRACY E	P O BOX 135	BARBOURSVILLE	VA	22923
0540000000193B	DEANE, KATHERINE I &	PO BOX 23	BARBOURSVILLE	VA	22923
05400000001950	BOONE, DOROTHY MAE FRENCH	1097 CATON DR	VIRGINIA BEACH	VA	23454
05400000002020	DARNELL, JOHN CHARLES	5562 OLD BARBOURSVILLE RD	GORDONSVILLE	VA	22942
0540000000202F	MUSSER, MARK	395 SCHOOLHOUSE RD	QUARRYVILLE	PA	17566
05400000002040	COLBY, CLARA B & BRYAN KEITH WRIGHT	7723 JAMES MADISON HWY	FORK UNION	VA	23055
0540000000204A	COLBY, CLARA B & BRYAN KEITH WRIGHT	7723 JAMES MADISON HWY	FORK UNION	VA	23055
0540000000204B	WHELAN, TERRENCE M & EILEEN S	P O BOX 68	ORANGE	VA	22960
0540000000204E	DONOVAN, THELMA HAW	17337 WOODROOF RD	GORDONSVILLE	VA	22942
05400000002090	CRYST, CONNIE F	P O BOX 126	BARBOURSVILLE	VA	22923
05400000002110	ONEIL, ELSIE MARIE	PO BOX 530	SOMERSET	VA	22972
05400040000170	PERDUE BARBOURSVILLE LLC	P O BOX C	THE PLAINS	VA	20198
05500000000230	WOODRIF, JAFFRAY P	240 W MAIN ST BOX 110	CHARLOTTESVILLE	VA	22902
0550000000029A	LONGAKER, BETTINA G	8246 OPEN GATE RD	GORDONSVILLE	VA	22942
05500000000300	LONGAKER, BETTINA G	8246 OPEN GATE RD	GORDONSVILLE	VA	22942
05500000000310	GLEN COVE FARM INC	P O BOX 37	SOMERSET	VA	22972
05500000000500	GLEN COVE FARM INC	P O BOX 37	SOMERSET	VA	22972
0550000000050A	WILSON, FRANCES GRAVES TRUSTEE	P O BOX 72	SOMERSET	VA	22972
05500000000510	RENNINGER, PEGGY SUE	7345 SHADY REST LN	GORDONSVILLE	VA	22942
0660000000005E	BRYANT, RICHARD G & LORRIE P	6045 GOV BARBOUR ST	BARBOURSVILLE	VA	22923
06600000000150	FLOYD, MARY ELIZABETH B LIFE EST	5365 BEELER ST	PITTSBURGH	PA	15217

<u>PIN</u>	<u>OWNER</u>	<u>ADDRESS</u>	<u>CITY</u>	<u>STATE</u>	<u>ZIP</u>
0660000000015B	TRIMMER, SIDNEY LEE &	7267 SPOTSWOOD TRL	GORDONSVILLE	VA	22942
0660000000015D	QURESHI, CATHERINE M	2324 SARAH ST	PITTSBURGH	PA	15203
06700000000030	SHIRLEY, MICHAEL S TRUST	555 FYRE RD	EARLYSVILLE	VA	22936
06700000000040	SHIRLEY, MICHAEL S TRUST	555 FYRE RD	EARLYSVILLE	VA	22936
06700000000350	KAY, DAVID B TRUSTEE	2600 12TH STREET N	ARLINGTON	VA	22201
06700000000360	HELLMAN, DOUGLAS A &	18230 LOVERS LN	GORDONSVILLE	VA	22942
06700000000380	MILLER, NANCY GUY	17452 LOVERS LN	GORDONSVILLE	VA	22942
06700000000390	MILLER, NANCY GUY	17452 LOVERS LN	GORDONSVILLE	VA	22942
06700030000140	TUEL, EARL L	18114 LOVERS LN	GORDONSVILLE	VA	22942
06700030000150	TUEL, EARL L	18114 LOVERS LN	GORDONSVILLE	VA	22942

## TAX ID LANDOWNER IDENTIFICATION SHEET

Landowner	Field Number	Tax ID
P W Hiden, LLC	82-01	05500000000540
P W Hiden, LLC	82-04	05500000000540
P W Hiden, LLC	82-05	05500000000540
P W Hiden, LLC	82-06	05500000000540
P W Hiden, LLC	82-07	05500000000540
P W Hiden, LLC	82-09	05500000000540
P W Hiden, LLC	82-10	05500000000540
P W Hiden, LLC	82-11	05500000000540
		05500000000550
P W Hiden, LLC	82-15	05500000000550
P W Hiden, LLC	82-16	05500000000540
P W Hiden, LLC	82-18	05500000000540
P W Hiden, LLC	82-19	05500000000550
P W Hiden, LLC	82-20	05500000000540
		05500000000550
P W Hiden, LLC	82-22	05500000000540
P W Hiden, LLC	82-23	05500000000540
P W Hiden, LLC	82-24	05500000000540
P W Hiden, LLC	82-25	05500000000540
Katherine I Deane	82-26	0540000000193A

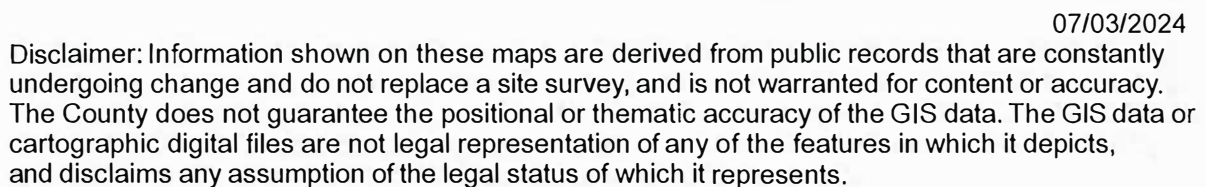
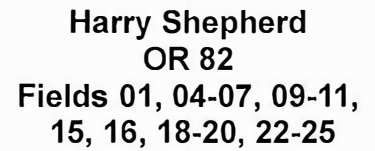
Field Number	Latitude (North)	Longitude (West)
82-01	38.187°	-78.246°
82-04	38.182°	-78.244°
82-05	38.185°	-78.248°
82-06	38.182°	-78.250°
82-07	38.180°	-78.253°
82-09	38.175°	-78.252°
82-10	38.177°	-78.249°
82-11	38.177°	-78.246°
82-15	38.174°	-78.247°
82-16	38.172°	-78.248°
82-18	38.173°	-78.244°
82-19	38.173°	-78.241°
82-20	38.176°	-78.238°
82-22	38.180°	-78.238°
82-23	38.177°	-78.233°
82-24	38.171°	-78.251°
82-25	38.187°	-78.241°
82-26	38.170°	-78.274°

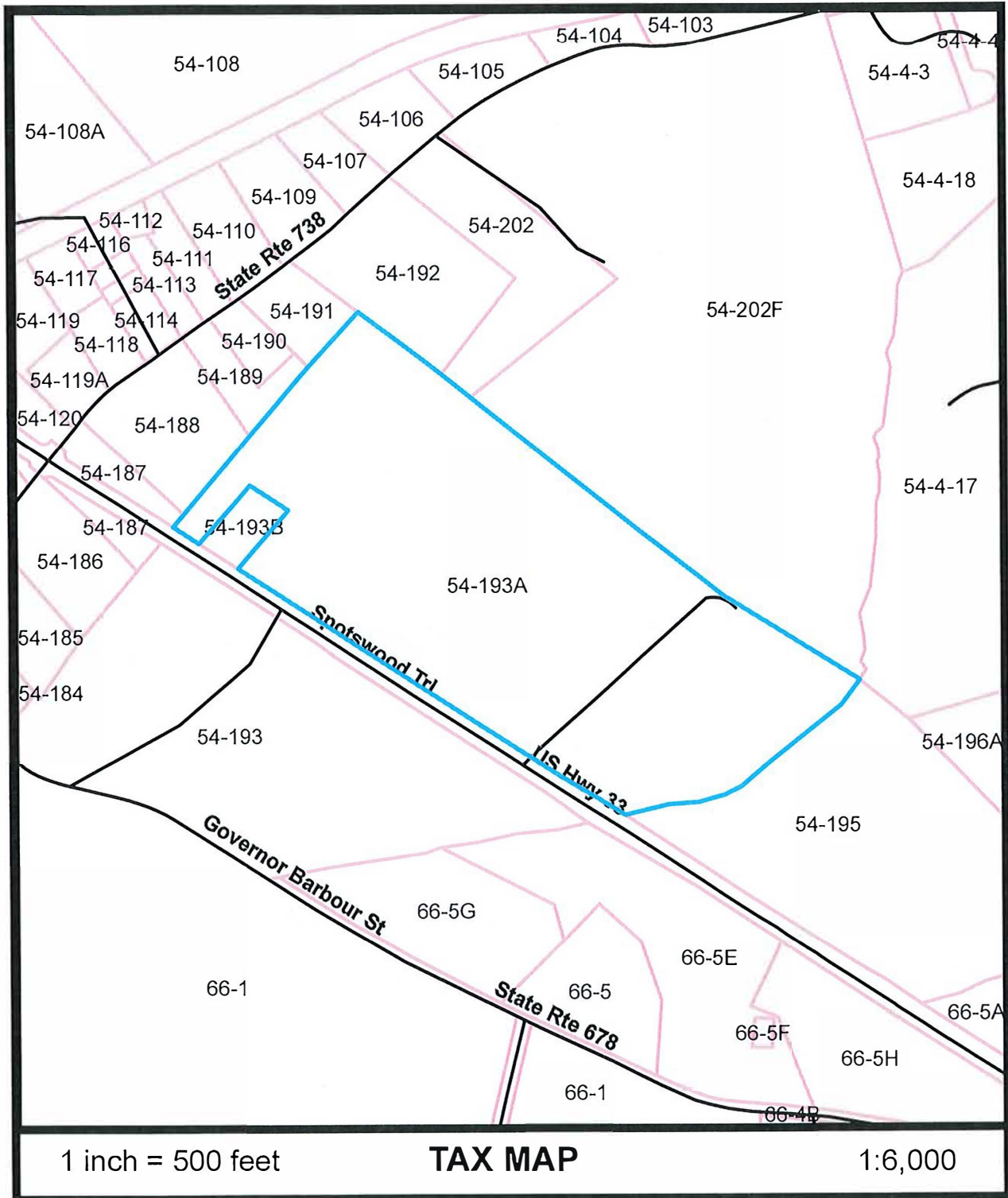
\*Latitude and Longitude are a random point determined by ArcView program

#### **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.







07/03/2024

Disclaimer: Information shown on these maps are derived from public records that are constantly undergoing change and do not replace a site survey, and is not warranted for content or accuracy. The County does not guarantee the positional or thematic accuracy of the GIS data. The GIS data or cartographic digital files are not legal representation of any of the features in which it depicts, and disclaims any assumption of the legal status of which it represents.



## Farm Summary Report

**Plan:** New Plan Fall, 2024 - Winter, 2025

**Farm Name:** OR 82

Location: Orange

Specialist: Jeffery R Douthit

N-based Acres: 467.3

P-based Acres: 0.0

**Tract Name:** OR 82

FSA Number: 0

Location: Orange

**Field Name:** 82- 01

Total Acres: 37.60 Usable Acres: 37.60

FSA Number: 0

Tract: OR 82

Location: Orange

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
14	BsB2	Bucks
1	KID	Klinesville
21	MnB	Manassas
10	MuB2	Mayodan
11	PeB	Penn
23	PeC	Penn
18	WaB2	Wadesboro
2	WaC2	Wadesboro

### **Field Warnings:**

**Field Name: 82-04**

Total Acres: 23.80 Usable Acres: 23.80

FSA Number: 0

Tract: OR 82

Location: Orange

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
7	BsB2	Bucks
15	KID	Klinesville
6	PeB	Penn
32	PeC	Penn
3	Rw	Rowland
16	WaB2	Wadesboro
21	WaC2	Wadesboro

***Field Warnings:***

**Field Name: 82-05**

Total Acres: 18.80 Usable Acres: 18.80

FSA Number: 0

Tract: OR 82

Location: Orange

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
1	BsB2	Bucks
12	KID	Klinesville
4	MnB	Manassas
9	MuB	Mayodan
1	MuB2	Mayodan
4	PeB	Penn
33	PeC	Penn
1	Rw	Rowland
35	WaB2	Wadesboro

***Field Warnings:***

**Field Name: 82-06**

Total Acres: 40.70 Usable Acres: 40.70

FSA Number: 0

Tract: OR 82

Location: Orange

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
19	BsB2	Bucks
4	KID	Klinesville
6	MnB	Manassas
6	MuB	Mayodan
2	PeB	Penn
16	PeC	Penn
3	Rw	Rowland
15	TuB2	Turbeville
6	TuC2	Turbeville
14	WaB2	Wadesboro
9	WaC2	Wadesboro

***Field Warnings:***

**Field Name: 82-07**

Total Acres: 20.60 Usable Acres: 20.60

FSA Number: 0

Tract: OR 82

Location: Orange

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
9	BsB2	Bucks
1	CbB	Calverton Creedmoor
7	KID	Klinesville
1	MnB	Manassas
20	PeB	Penn
34	PeC	Penn
4	Rw	Rowland
4	TuB2	Turbeville
3	WaB2	Wadesboro
17	WaC2	Wadesboro

***Field Warnings:***



**Field Name: 82-09**

Total Acres: 16.70 Usable Acres: 16.70

FSA Number: 0

Tract: OR 82

Location: Orange

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
12	BtB2	Bucks
20	BtC2	Bucks
10	CbB	Calverton Creedmoor
9	MnB	Manassas
14	PeB	Penn
13	PeC	Penn
3	RdB2	Rapidan
12	RdC2	Rapidan
7	TuB2	Turbeville

***Field Warnings:***

**Field Name: 82-10**

Total Acres: 16.90 Usable Acres: 16.90

FSA Number: 0

Tract: OR 82

Location: Orange

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
6	CbB	Calverton Creedmoor
58	HsB2	Hiwassee
5	KID	Klinesville
1	MnB	Manassas
1	PeB	Penn
11	PeC	Penn
18	ReC3	Rapidan

***Field Warnings:***

**Field Name: 82-11**

Total Acres: 36.60 Usable Acres: 36.60

FSA Number: 0

Tract: OR 82

Location: Orange

Slope Class: C 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
10	BtB2	Bucks
7	BtC2	Bucks
3	HsB2	Hiwassee
10	KID	Klinesville
10	MnB	Manassas
6	PeB	Penn
22	PeC	Penn
6	RdB2	Rapidan
22	RdC2	Rapidan
4	WaC2	Wadesboro

***Field Warnings:***

**Field Name: 82-15**

Total Acres: 6.10 Usable Acres: 6.10

FSA Number: 0

Tract: OR 82

Location: Orange

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
10	BtB2	Bucks
26	BtC2	Bucks
29	MnB	Manassas
12	PeC	Penn
18	RdB2	Rapidan
5	RdC2	Rapidan

***Field Warnings:***

**Field Name: 82-16**

Total Acres: 2.70 Usable Acres: 2.70

FSA Number: 0

Tract: OR 82

Location: Orange

Slope Class: C 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
11	BtB2	Bucks
41	BtC2	Bucks
9	CbB	Calverton Creedmoor
2	RaD2	Rabun
37	RdC2	Rapidan

***Field Warnings:***

**Field Name: 82-18**

Total Acres: 27.40 Usable Acres: 27.40

FSA Number: 0

Tract: OR 82

Location: Orange

Slope Class: C 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
16	DaC2	Davidson
8	DcC	Davidson
13	DcD	Davidson
4	DdD3	Davidson
11	DkB2	Dyke
3	Ee	Elbert
4	RaD2	Rabun
23	RdB2	Rapidan
18	RdC2	Rapidan

***Field Warnings:***

**Field Name: 82-19**

Total Acres: 12.90 Usable Acres: 12.90

FSA Number: 0

Tract: OR 82

Location: Orange

Slope Class: D 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
43	DaC2	Davidson
12	DaD2	Davidson
10	Ee	Elbert
32	RaD2	Rabun
3	SrC	Starr

***Field Warnings:****Environmentally Sensitive Soils due to:**Soils with perent slope in excess of 15%*



**Field Name: 82-20**

Total Acres: 52.80 Usable Acres: 52.80

FSA Number: 0

Tract: OR 82

Location: Orange

Slope Class: C 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
3	BsB2	Bucks
6	BtC2	Bucks
5	DaB2	Davidson
3	DaC2	Davidson
19	DkB2	Dyke
9	Ee	Elbert
5	KID	Klinesville
6	MnB	Manassas
4	PeC	Penn
7	RaC2	Rabun
11	RaD2	Rabun
2	RdB2	Rapidan
20	RdC2	Rapidan

***Field Warnings:***

**Field Name: 82-22**

Total Acres: 29.90 Usable Acres: 29.90

FSA Number: 0

Tract: OR 82

Location: Orange

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
6	BsB2	Bucks
1	Ee	Elbert
13	KID	Klinesville
19	MnB	Manassas
9	PeB	Penn
32	PeC	Penn
20	WaB2	Wadesboro

***Field Warnings:***

**Field Name: 82-23**

Total Acres: 51.30 Usable Acres: 51.30

FSA Number: 0

Tract: OR 82

Location: Orange

Slope Class: C 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
3	BsB2	Bucks
3	BsC2	Bucks
8	BtB2	Bucks
5	BtC2	Bucks
1	CbB	Calverton Creedmoor
7	DaB2	Davidson
3	DaC2	Davidson
18	DdC3	Davidson
1	Ee	Elbert
4	KID	Klinesville
7	MnB	Manassas
5	PeC	Penn
15	RdB2	Rapidan
16	RdC2	Rapidan
4	WaB2	Wadesboro

***Field Warnings:***

**Field Name: 82-24**

Total Acres: 14.60 Usable Acres: 14.60

FSA Number: 0

Tract: OR 82

Location: Orange

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
6	CbB	Calverton Creedmoor
7	Ee	Elbert
20	KID	Klinesville
16	MnB	Manassas
11	PeB	Penn
10	PeC	Penn
3	RdB2	Rapidan
25	RdC2	Rapidan
2	WaC2	Wadesboro

**Field Warnings:***Environmentally Sensitive Soils due to:**Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock**Soils with perent slope in excess of 15%*

**Field Name: 82-25**

Total Acres: 26.70 Usable Acres: 26.70

FSA Number: 0

Tract: OR 82

Location: Orange

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
4	Bo	Bowmansville
21	KID	Klinesville
1	MnB	Manassas
2	PeB	Penn
42	PeC	Penn
2	RnD	Rock land
19	WaB2	Wadesboro
9	WaC2	Wadesboro

**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**Soils with perent slope in excess of 15%*

**Field Name: 82-26**

Total Acres: 31.20 Usable Acres: 31.20

FSA Number: 0

Tract: OR 82

Location: Orange

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
27	BtB2	Bucks
6	CbB	Calverton Creedmoor
45	HsB2	Hiwassee
3	HsC2	Hiwassee
7	MnB	Manassas
11	PeC	Penn
1	Rw	Rowland

***Field Warnings:***

**ENVIRONMENTALLY SENSITIVE AREAS**

Field	Reason for Sensitive Area
82-01	Shallow Soils (Map Unit KID - 1%)
82-04	High Water Table (Map Unit Rw - 3%) Shallow Soils (Map Unit KID - 15%)
82-05	High Water Table (Map Unit Rw - 1%) Shallow Soils (Map Unit KID - 12%)
82-06	High Water Table (Map Unit Rw - 3%) Shallow Soils (Map Unit KID - 4%)
82-07	High Water Table (Map Unit Rw - 4%) Shallow Soils (Map Units CbB & KID - 8%)
82-09	Shallow Soils (Map Unit CbB - 10%)
82-10	Shallow Soils (Map Units CbB & KID - 11%)
82-11	Shallow Soils (Map Unit KID - 10%)
82-15	None
82-16	Shallow Soils (Map Unit CbB - 9%)
82-18	High Water Table (Map Unit Ee - 3%)
82-19	High Water Table (Map Unit Ee - 10%)
82-20	High Water Table (Map Unit Ee - 9%) Shallow Soils (Map Unit KID - 5%)
82-22	High Water Table (Map Unit Ee - 19%) Shallow Soils (Map Unit KID - 13%)
82-24	High Water Table (Map Unit Ee - 7%) Shallow Soils (Map Units CbB & KID - 26%)
82-25	High Water Table (Map Unit Bo - 4%) Frequent Flooding (Map Unit Bo - 4%) Shallow Soils (Map Unit KID - 21%)
82-26	High Water Table (Map Unit Rw - 1%) Shallow Soils (Map Unit CbB - 6%)

### Orange County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
Ab	Albano	Nov-March		
AuA, AuB	Augusta	Dec-May		
Be	Bermudian		Nov-March	
Bo	Bowmansville	Sept-May	Sept-May	Drainage
BrC, BrD	Bremo			Leaching
Bw	Buncombe			Leaching
CaB, CaC	Calverton	Dec-May		
CbB, CcC, CcD	Catoctin			Shallow
Cw	Chewacla	Nov-April	Nov-April	
CxB	Colfax	Nov-June		
Eb, Ee	Elbert	Nov-May		
HaC, HaD	Hazel			Shallow
KID, KIE	Klinesville			Shallow
LgB	Lignum	Dec-May		
LoC, LoC2, LoD, LoD2	Louisburg			Leaching
MoD	Manor			Leaching
MrB, MrC, MrD, MrE	Manteo			Shallow
OgA, OgB, OgB2, OgC2	Orange	Dec-May		
OrA, OrB, OrB2	Orange	Dec-May		
PkC, PkD	Pinkston			Leaching
Rk	Roanoke	Nov-May		
Rw	Rowland	Nov-May		
WbB, WbC, WbD	Watt			Shallow
We	Wehadkee	Nov-May	Nov-June	
WoB	Worsham	Nov-April		



# Map Legend



House/Dwelling with a well

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



Rock Outcrop

- 25' buffer



Limestone Outcrop/Closed Sinkhole

- 50' buffer



Well/Spring/Open Sinkhole

- 100' buffer



Lake/Pond

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



Slope which exceeds 15%



Publicly Accessible Site/Odor Sensitive Site

- 200' buffer Publicly Accessible Site Property Line
- 400' buffer Odor Sensitive Site



Stream/River

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



Agricultural/Drainage Ditch

- 10' buffer



Roadway

- 10' improved highway buffer



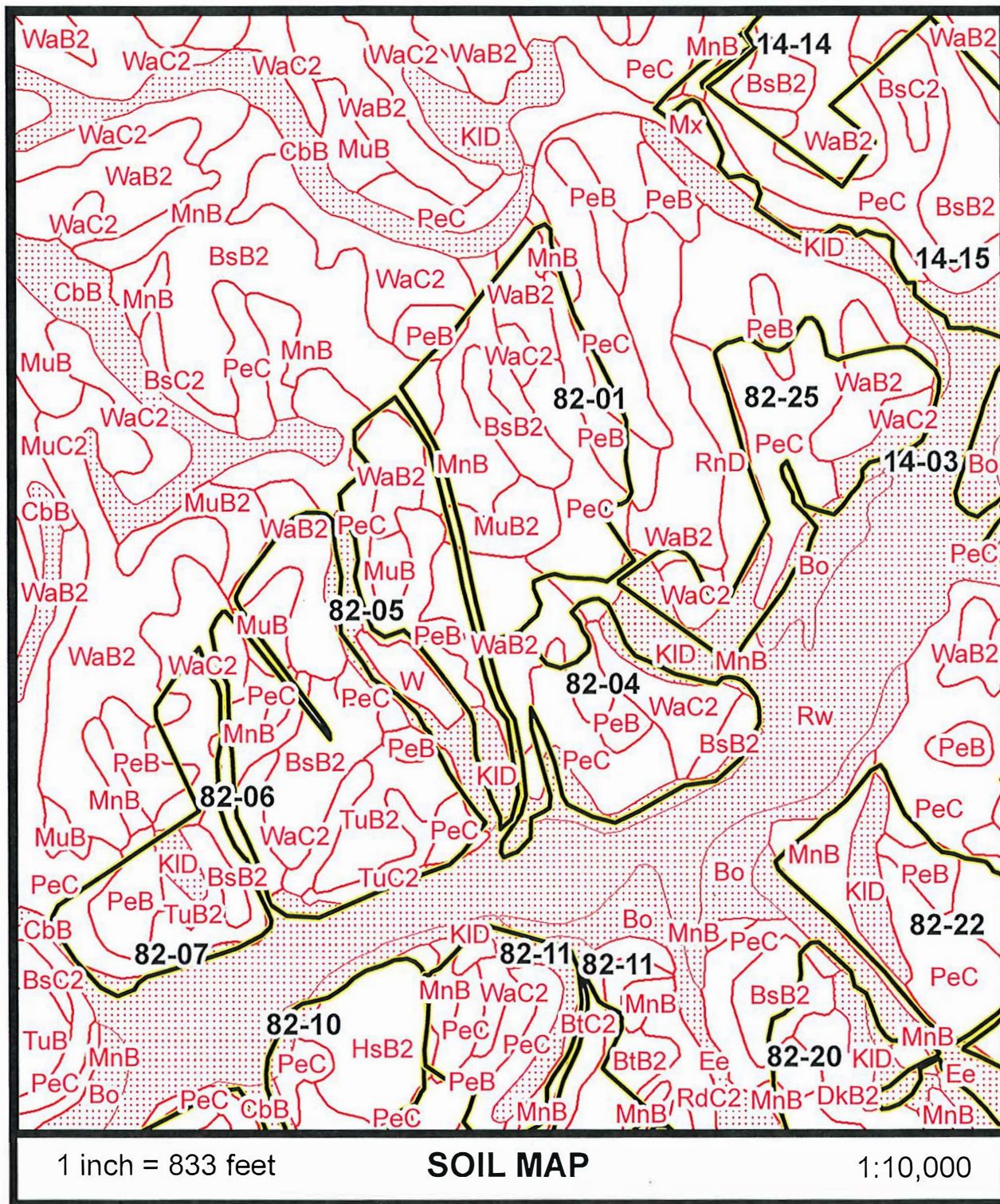
Field Boundary



Property Line

- 100' buffer unless waiver issued





Environmentally Sensitive Soil

07/03/2024







## Environmentally Sensitive Soil

07/03/2024







### Environmentally Sensitive Soil

07/03/2024



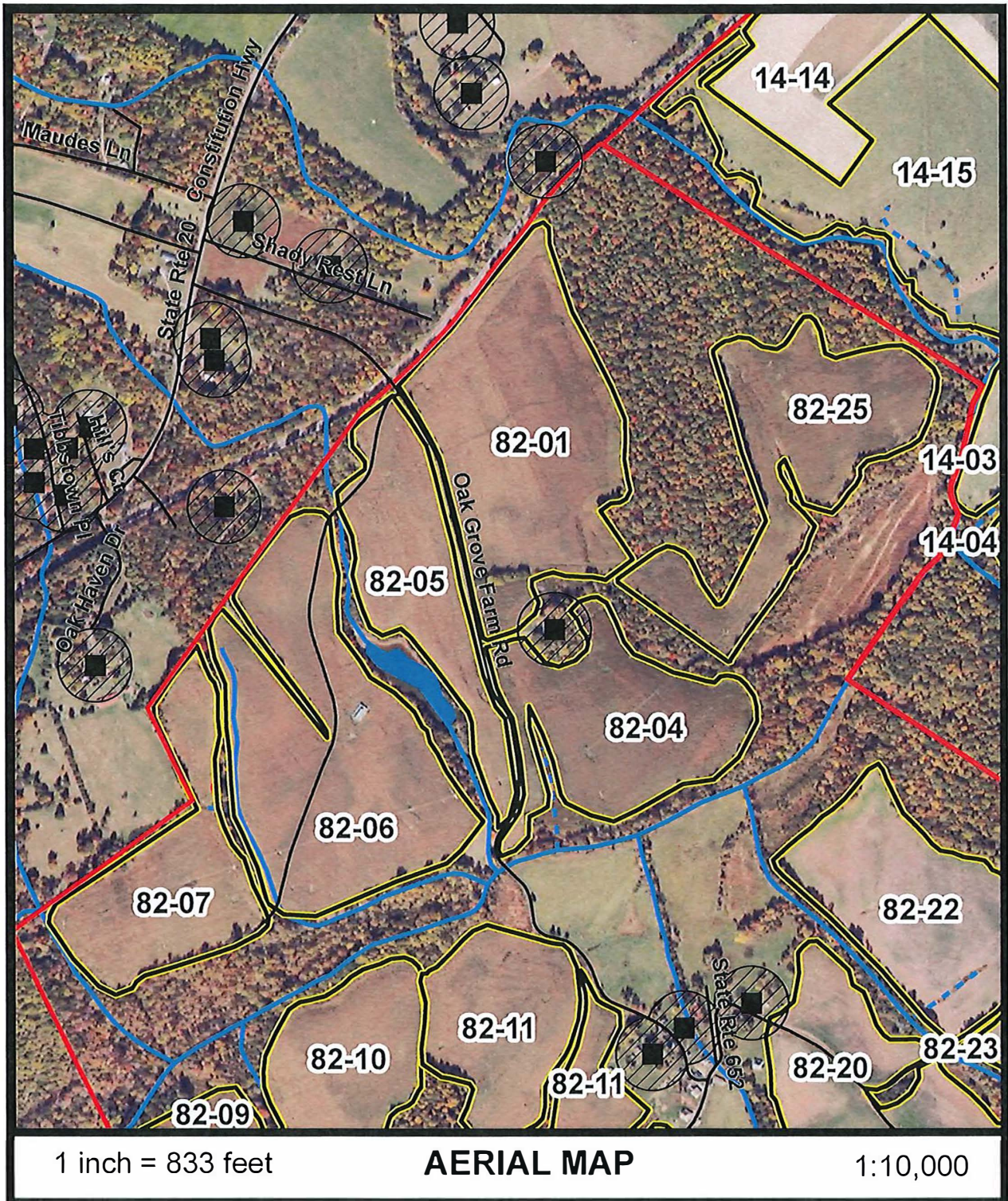




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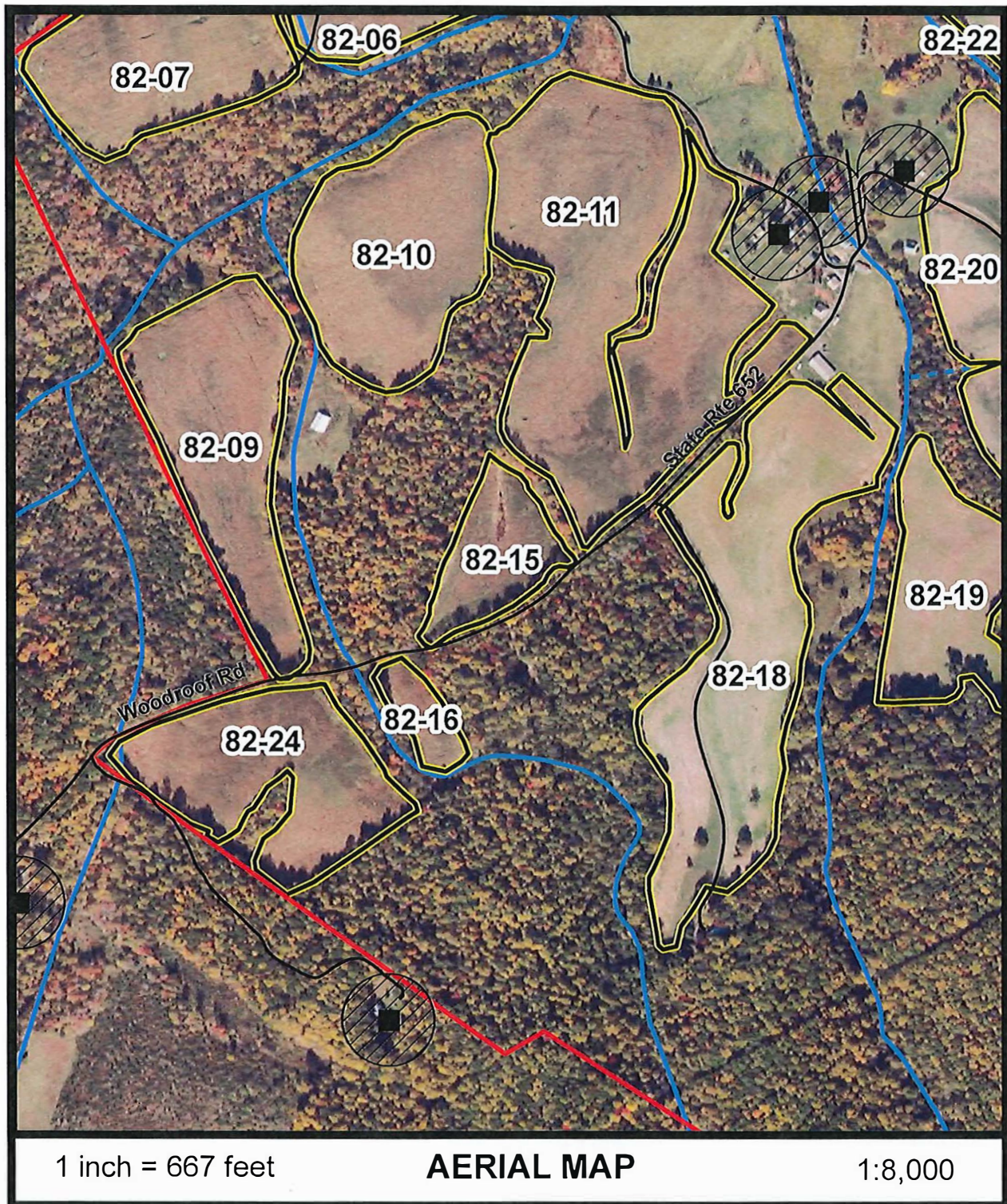




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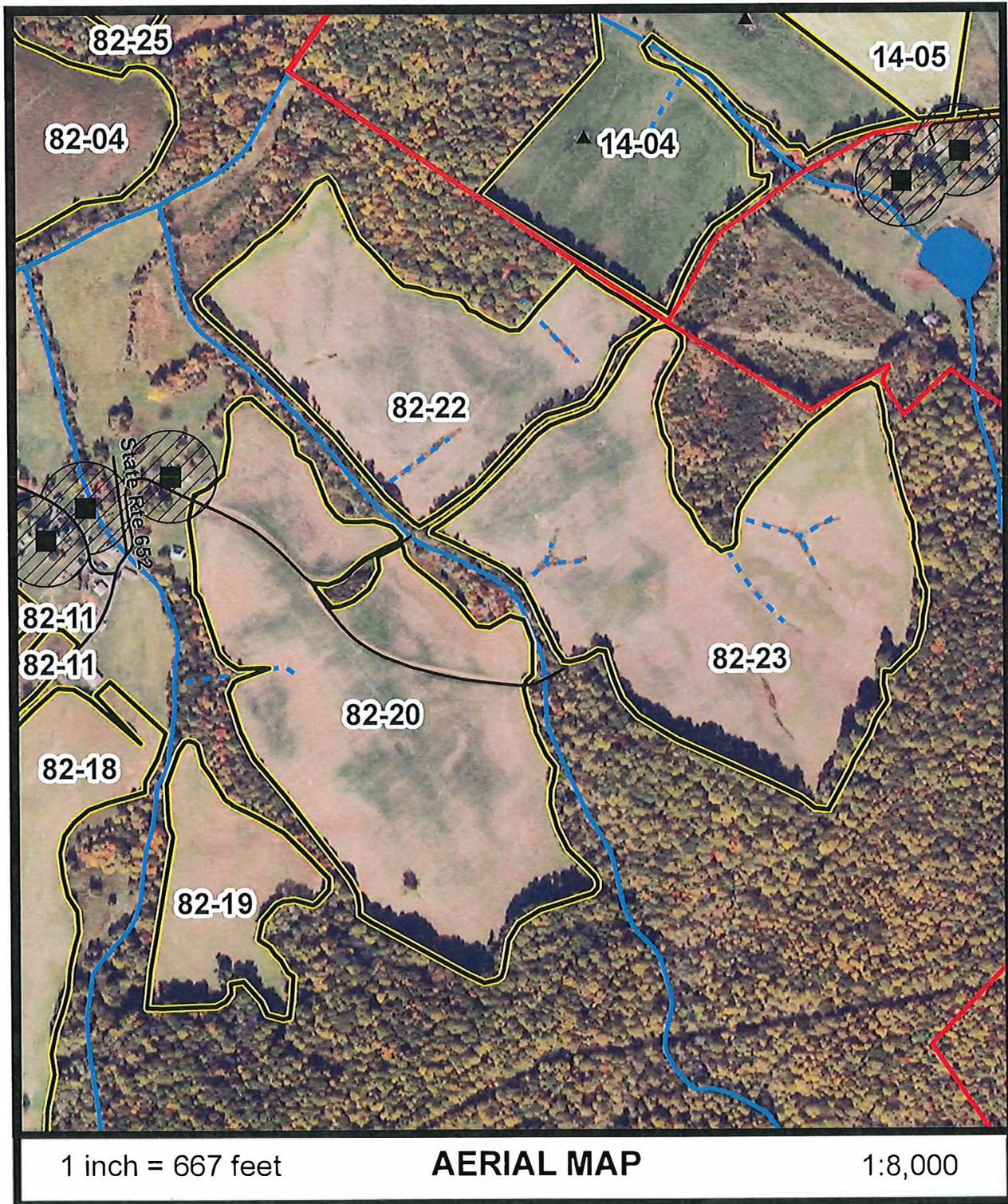




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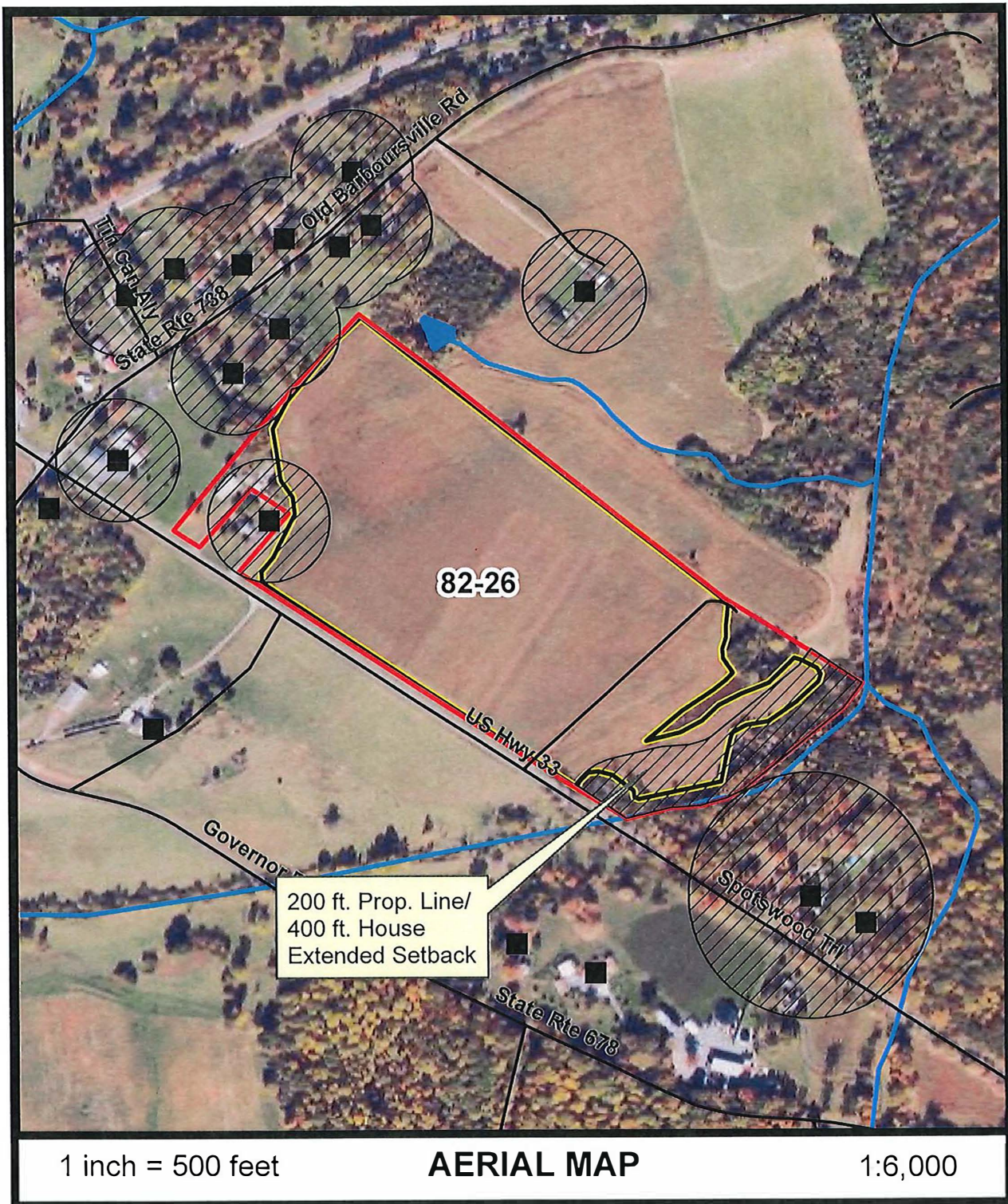




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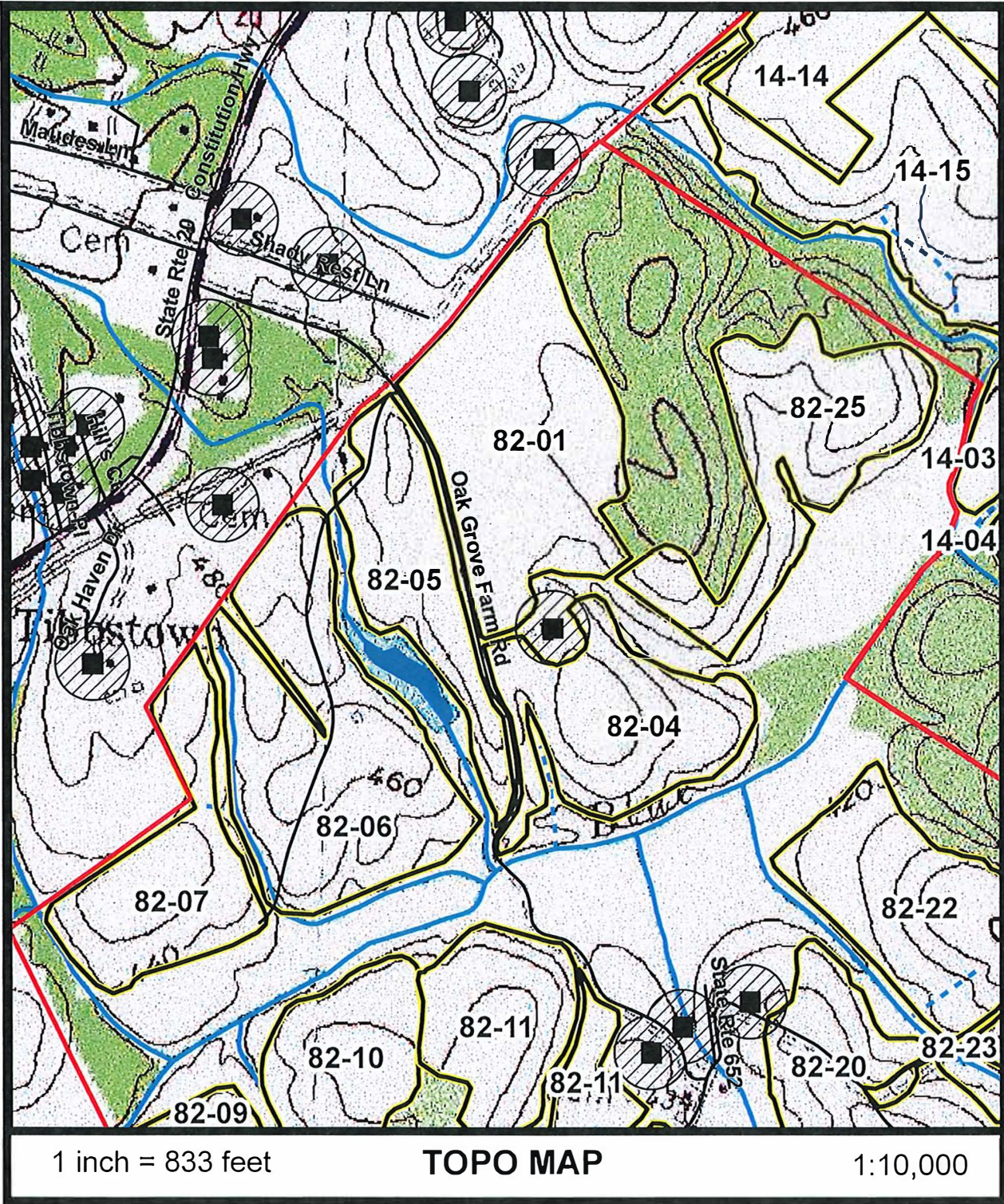




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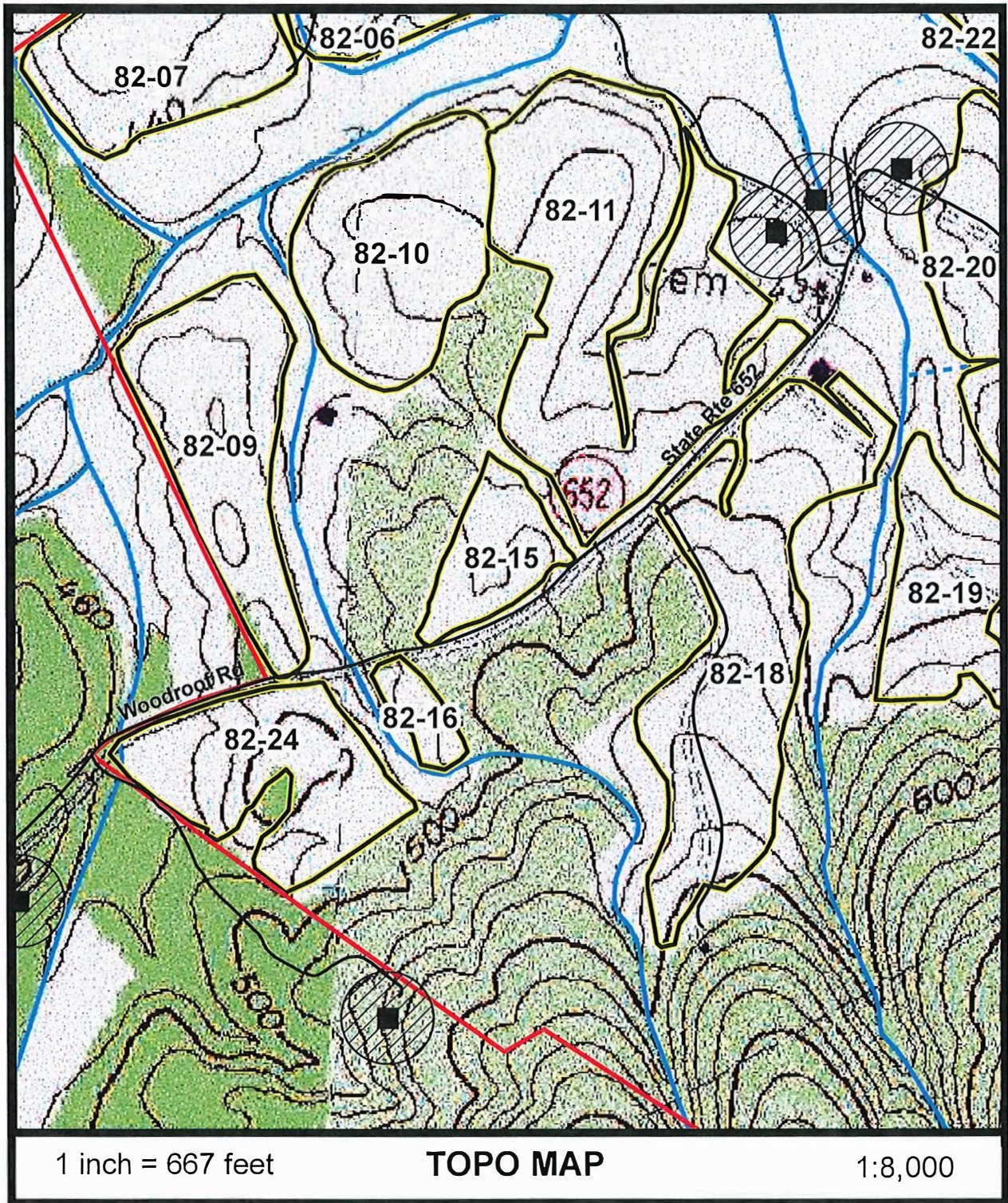


FIELD	ACRES	FIELD	ACRES
82-01	37.6	82-06	40.7
82-04	23.8	82-07	20.6
82-05	18.8	82-25	26.7

07/03/2024





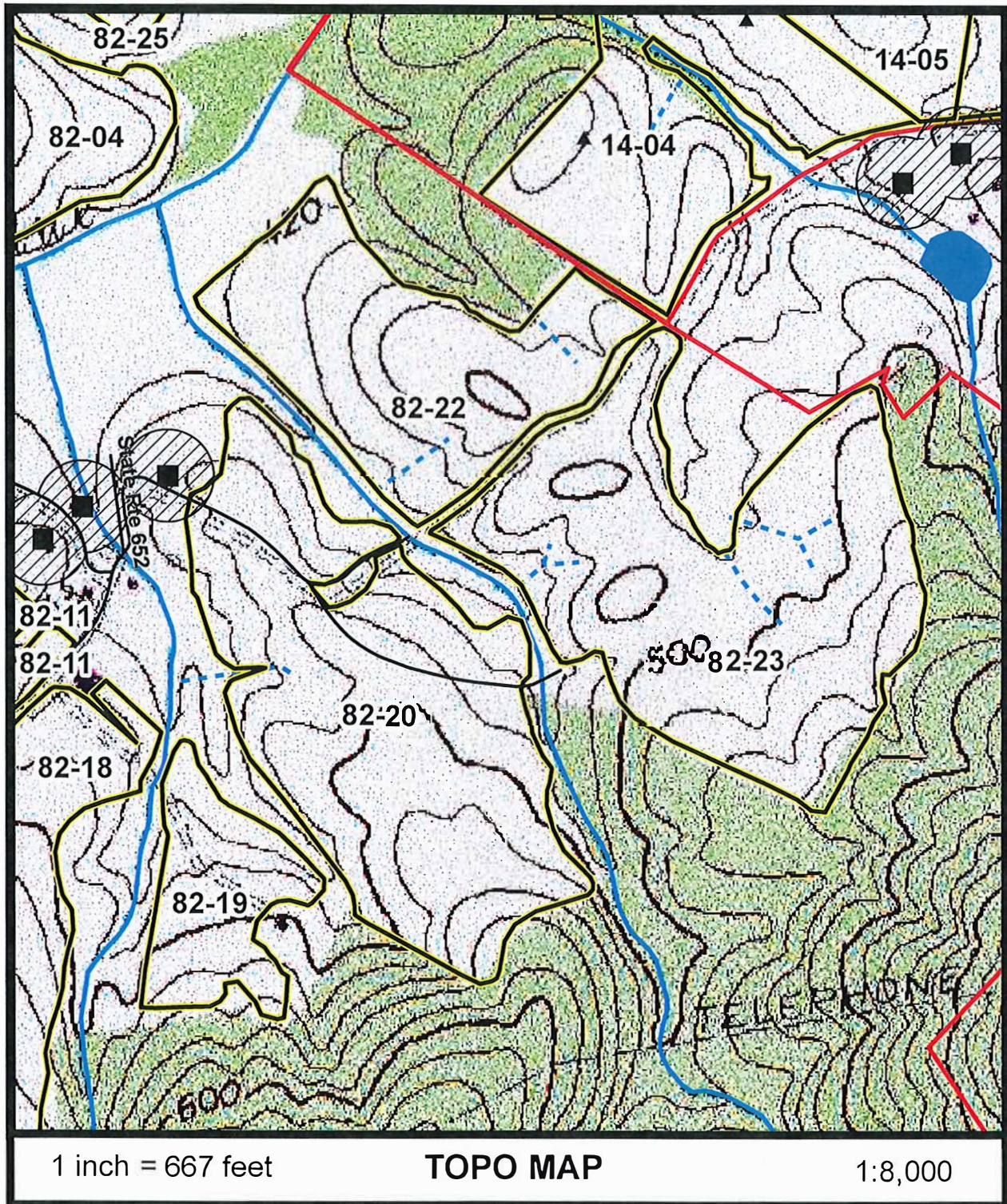


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82-09	16.7	82-16	2.7
82-10	16.9	82-18	27.4
82-11	36.6	82-24	14.6
82-15	6.1		

07/03/2024





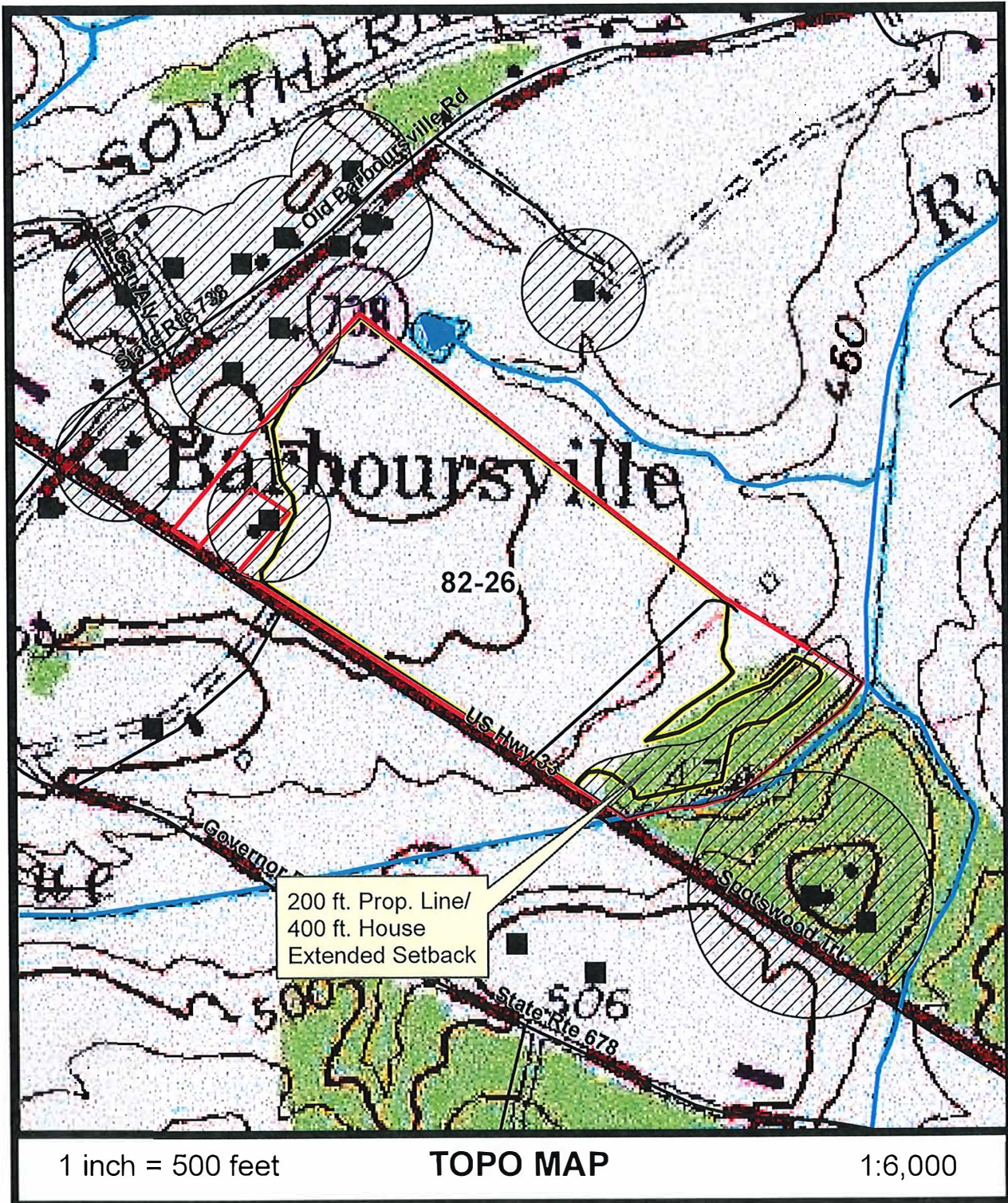


FIELD	ACRES
82-19	12.9
82-20	51.3
82-22	29.9
82-23	51.3

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FIELD	ACRES
82-26	31.2

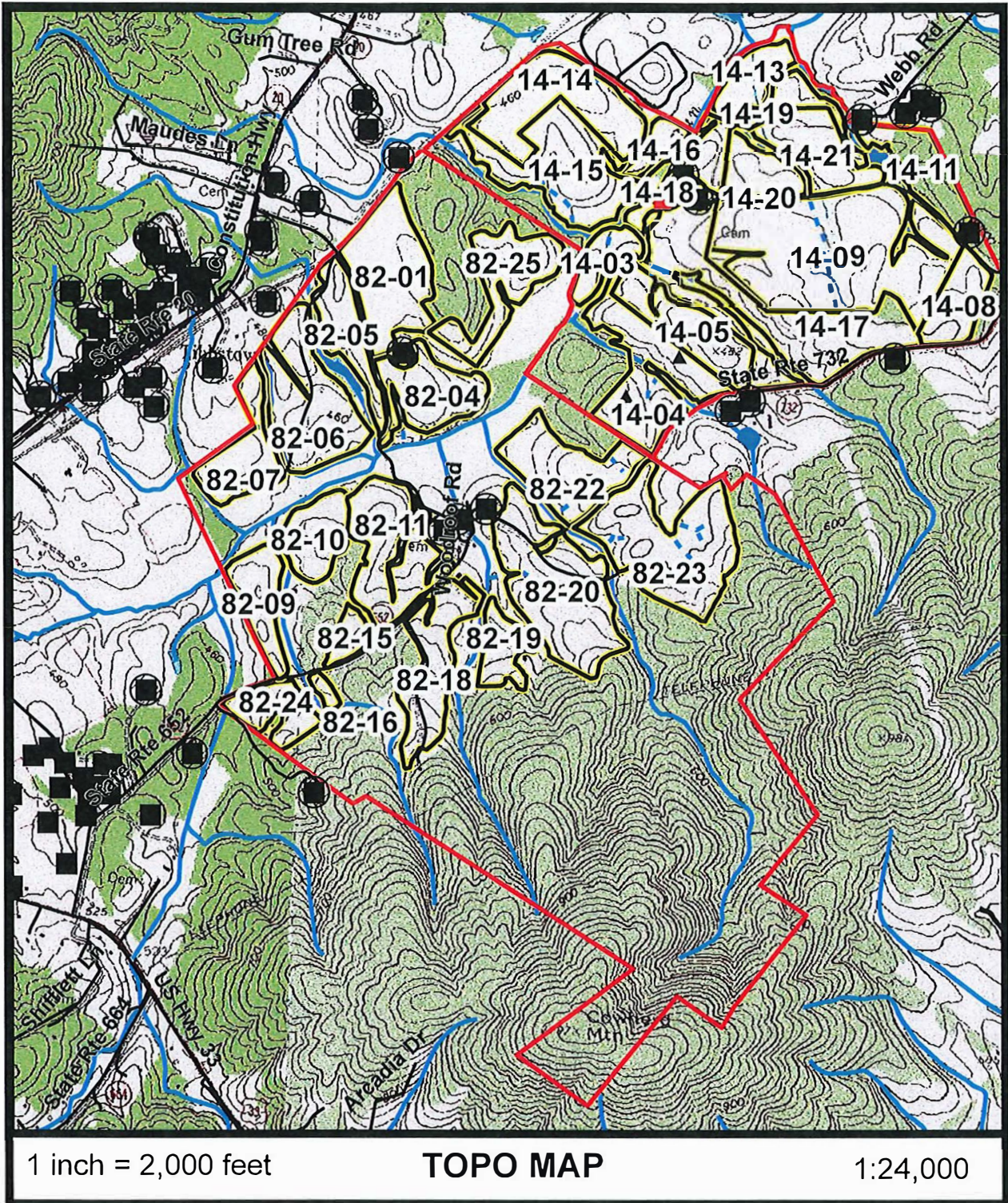
07/03/2024





# SYNAGRO

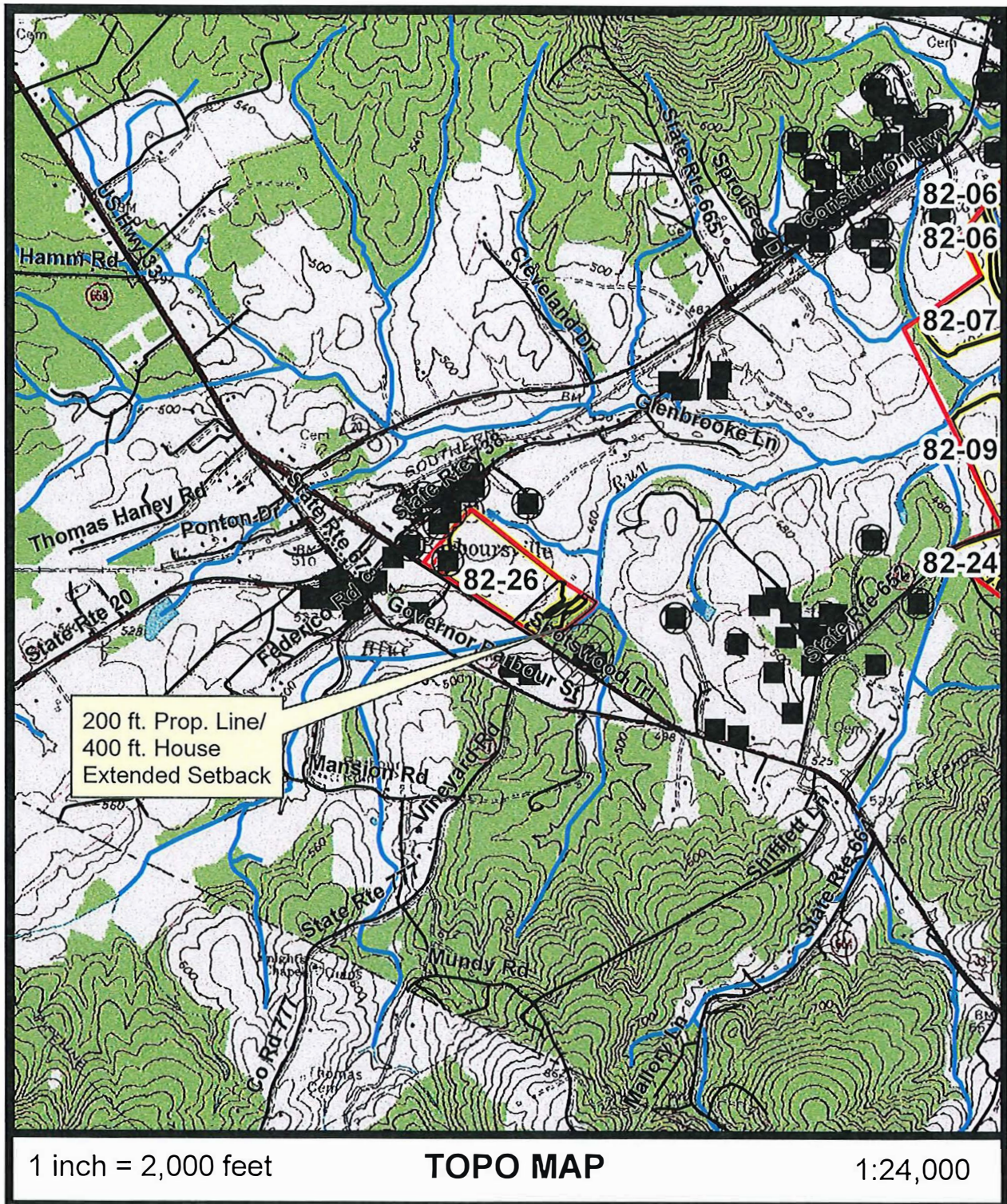
Harry Shepherd  
OR 82  
Fields 01, 04-07, 09-11,  
15, 16, 18-20, 22-25



07/03/2024





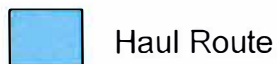


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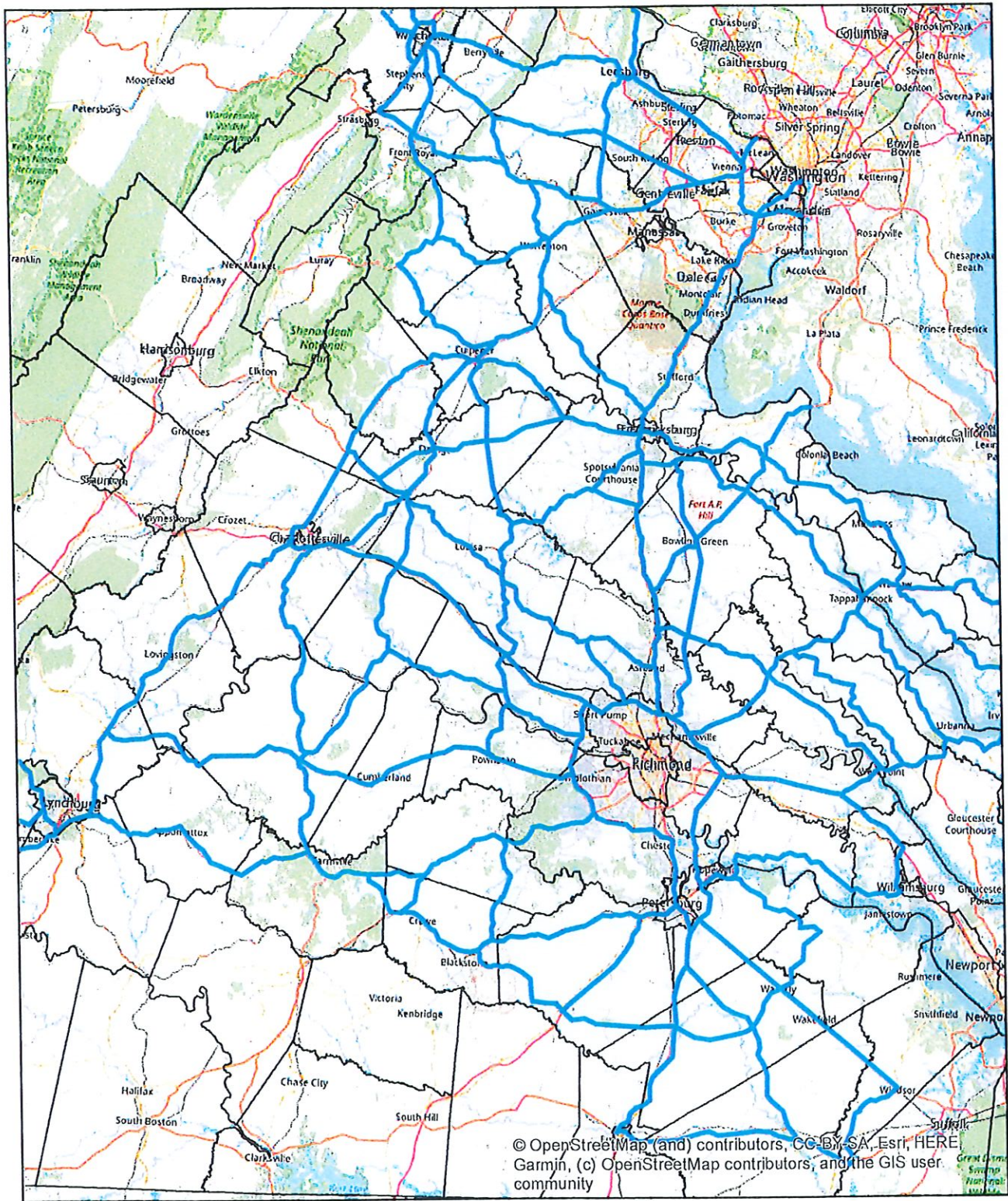


**Harry Shepherd  
OR 82  
Fields 01, 04-07, 09-11,  
15, 16, 18-20, 22-26**





# SYNAGRO



Haul Route

## HAUL ROUTE MAP

1:1,500,000

This map highlights all major routes from approved generators to the locations of permitted sites. The Highlighted routes on the Location Map will pinpoint routes closer to the site.