

**LAND APPLICATION SITE**

**CARL V. SHELL**

**DWCVS 1 - 3**

**DINWIDDIE COUNTY**

**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 7-1-22 between Carl V Shell Trust referred to here as "Landowner", and Recyc Systems, Inc. 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 Dinwiddie, 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
46-1-1	46-1-9	47-14	46-1-5
46-1-2	46-1-10	47-21	47-15
46-1-3	46-1-8	47-21A	47-15A
46-1-4	46-64E	46-66	

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.

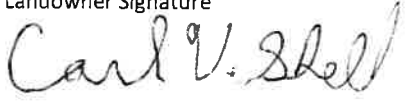
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

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>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name Carl V.Shell	Mailing Address 23028 Dabney Mill Rd. Petersburg, VA 23803	Landowner Signature 
By: <u>Carl V. Shell</u> Title* <u>Trustee</u>	Phone No. <u>804-894-1819</u>	
* <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.		
* <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:**

Recyc Systems, Inc., 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 Susan Trumbo	Mailing Address PO Box 562, Remington Virginia 22734	Permittee- Authorized Representative Signature 
Title Technical Manager	Phone No. 540-547-3300	

Permittee: Recyc Systems, Inc

County or City: Dinwiddie

Landowner: Carl V Shell 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:

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).

Carl V. Shell  
Landowner's Signature

7-1-22  
Date

Carl V. Shell  
Operator's Signature

23028 Dabney Mill Rd.  
Petersburg, VA 23803  
004-894-1819  
mailing address & phone

7-1-22  
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 from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee: Recyc Systems, Inc.

Site Name: Carl V. Shell

County or City: Dinwiddie Co.

Please Print

Signature not required on this page

Tax Parcel ID(s)	Landowner(s)
46-1-1	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
46-1-2	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
46-1-3	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
46-1-4	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
46-1-8	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
46-1-9	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
46-1-10	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
46-64E	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
46-66	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
47-14	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
47-15	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
47-15A	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
47-21	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
47-21A	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
46-1-5	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement

# FARM DATA SHEET

<b>SITE NAME:</b>	Carl V. Shell	<b>COUNTY:</b>	Dinwiddie	
<b>OWNER:</b>	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement	<b>OPERATOR:</b>	Carl V. Shell	
<b>OWNER'S ADDRESS:</b>	23028 Dabney Mill Road Petersburg, VA 23803	<b>OPERATOR'S ADDRESS:</b>	23028 Dabney Mill Road Petersburg, VA 23803	
<b>OWNER'S TELEPHONE:</b>	804-894-1819	<b>OPERATOR'S TELEPHONE:</b>	804-894-1819	
<b>GENERAL FARM TYPE:</b>	Row Crops	<b>CELL PHONE:</b>	-	
<b># CATTLE:</b>	None	<b>EMAIL:</b>	-	
<b>LAGOON or SLURRY:</b>	None	<b>LATITUDE:</b>	Field 1	37.112
			Fields 2-3	37.113
<b>TOPO QUAD:</b>	Dinwiddie, Carson	<b>LONGITUDE:</b>	Field 1	-77.522
			Fields 2-3	-77.494
<b>COMMENTS:</b>		<b>METHOD OF DETERMINATION:</b>	Online Maps	

6-14-23  
BB

# RECYC SYSTEMS, INC

## FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #	FSA Field #
		Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood				
DWCVS 01	48.4	12A Dec.-Mar. 12B Dec.-Mar. 17A Nov.-Mar.	-	-	-	CU 27	46-1-1 46-1-2 46-1-3 46-1-4 46-1-5 46-1-9 46-1-10	6040	211
DWCVS 02	18.9	17B Nov.-Apr.	-	-	-	CU 27	47-21	1558	1
DWCVS 03	25.5	12B Dec.-Mar. 17B Nov.-Apr.	-	-	-	CU 27	47-15 47-15A	1558	1
TOTAL ACRES IN SITE	92.8								

\*\* Field ID abbreviated throughout book \*\*

## NUTRIENT MANAGEMENT PLAN IDENTIFICATION

**Operator**  
Carl V. Shell  
23028 Dabney Mill Road  
Petersburg, VA 23803  
804-894-1819

**Integrator:**None

**Farm Coordinates**  
Easting: 0, Northing: 0, zone: 17

**Watershed Summary**  
watershed: CU27  
county: Dinwiddie

**Nutrient Management Planner**  
John Doe  
123 Main St.  
Suite #5  
Blacksburg, VA 24060

Certification Code: 892

**Acreage Use Summary**  
Total Acreage in this plan: 92.8  
Cropland: 92.8  
Hayland: 0.  
Pasture: 0.  
Specialty: 0.

**Livestock Summary**  
Beef Cattle 0  
Dairy Cattle 0  
Poultry 0  
Swine 0  
Other 0

### Manure Production Balance

	Imported	Produced	Exported	Used	Net
kgals	0.	0.	0.	0.	0.
tons	0.	0.	0.	0.	0.

Plan written 6/15/2023  
Valid until 6/15/2025

Signature: \_\_\_\_\_  
Planner date

**Nutrient Management Plan Balance Sheet**  
**(Fall, 2023-Winter, 2025)**  
**Carl V. Shell**  
**Planner: John Doe (cert. No. 892)**

Tract: 1558      Location: Dinwiddie  
 (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/DWCVS 2(N)	19/19	2023 2024	Wheat (grain) .....	100-60-60 -----	0/0				100-60-60	N/A			
1/DWCVS 3(N)	26/26	2023 2024	Wheat (grain) .....	100-60-60 -----	0/0				100-60-60	N/A			

**Commercial Application Methods:**  
 br - Broadcast ba - Banded sd - Sidedress  
**Notes:**



Tract: 6040

Location: Dinwiddie

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosid Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
211/DWCVS 1(N)	48/48	2023 2024	Wheat (grain)	100-60-60 -----	0/0				100-60-60	N/A			

**Commercial Application Methods:**

br - Broadcast ba - Banded sd - Sidedress

**Notes:**

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
1558	DWCVS 2	19	[No Test]						
1558	DWCVS 3	26	[No Test]						
6040	DWCVS 1	48	[No Test]						

**Field Productivities for Major Crops**

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
1558	1558/1	DWCVS 2	19	Emporia	IIIa	II	III	II	
	1558/1	DWCVS 3	26	Emporia	IIIa	II	III	II	
6040	6040/211	DWCVS 1	48	Mattaponi	IIIa	II	III	II	

**Yield Range**

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

## Farm Summary Report

**Plan:**            **New Plan**        **Fall, 2023 - Winter, 2025**

**Farm Name:**    **Carl V. Shell**

Location:        Dinwiddie

Specialist:      John Doe

N-based Acres: 92.8

P-based Acres: 0.0

**Tract Name:**    **1558**

FSA Number:    1558

Location:                Dinwiddie

**Field Name:**     **DWCVS 2**

Total Acres:    18.90    Usable Acres:    18.90

FSA Number:    1

Tract:            1558

Location:                Dinwiddie

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
6	17B	Slagle
5	19B	Uchee
89	5B	Emporia

**Field Warnings:**

**Field Name:** DWCVS 3  
Total Acres: 25.50 Usable Acres: 25.50  
FSA Number: 1  
Tract: 1558  
Location: Dinwiddie  
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
80	5B	Emporia
18	12B	Mattaponi
2	17B	Slagle

**Field Warnings:**

**Tract Name:** 6040  
FSA Number: 6040  
Location: Dinwiddie

**Field Name:** DWCVS 1  
Total Acres: 48.40 Usable Acres: 48.40  
FSA Number: 211  
Tract: 6040  
Location: Dinwiddie

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:**

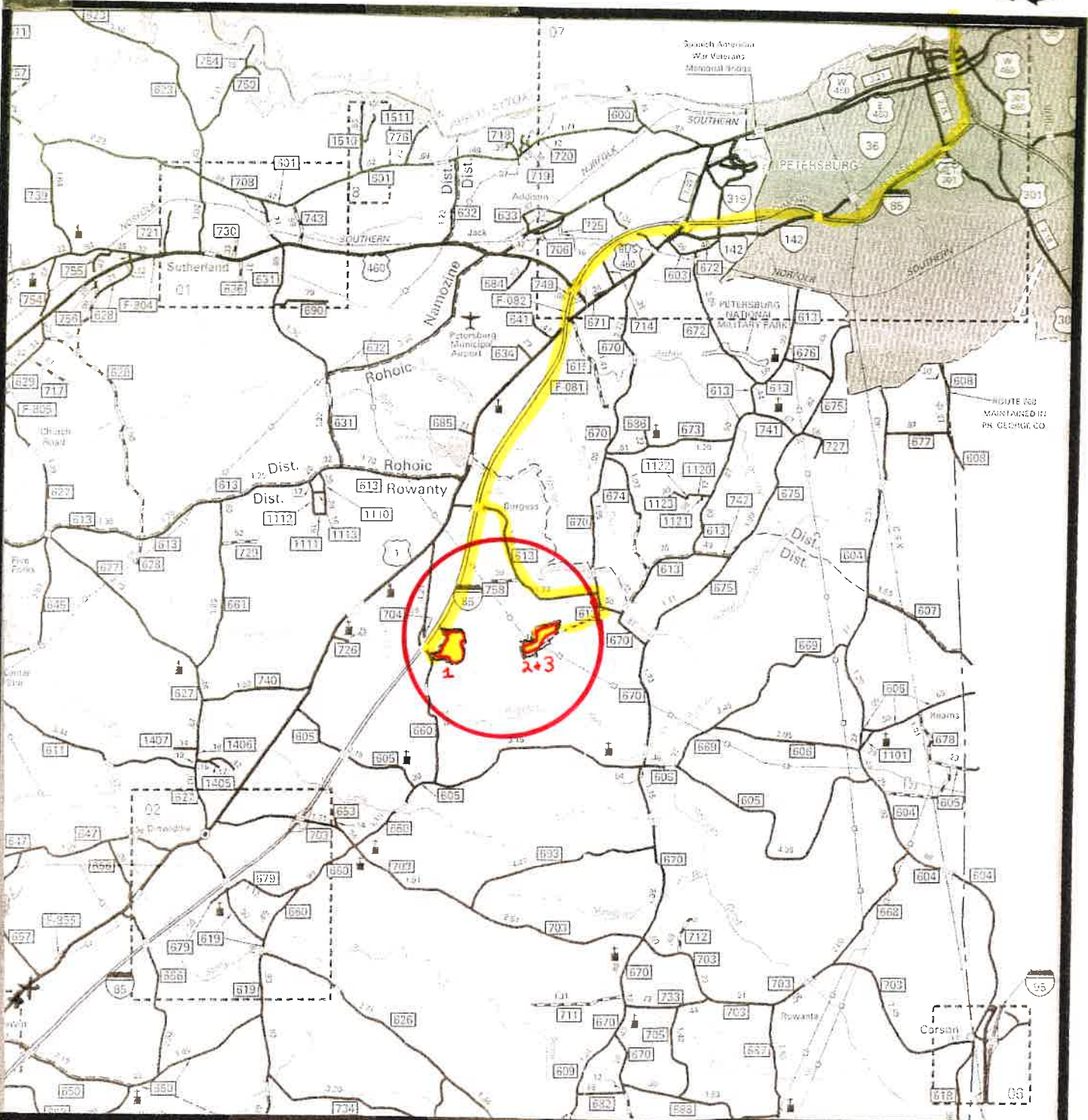
PERCENT	SYMBOL	SOIL SERIES
4	5A	Emporia
18	5B	Emporia
66	12A	Mattaponi
10	12B	Mattaponi
1	17A	Slagle

**Field Warnings:**

# MAPS

# Recyc Systems™ Inc.

(Biosolids Land Application)



**Scale:** 1 inch = 2 miles

DWCVS 1-3

Truck  
Route

6-14-23

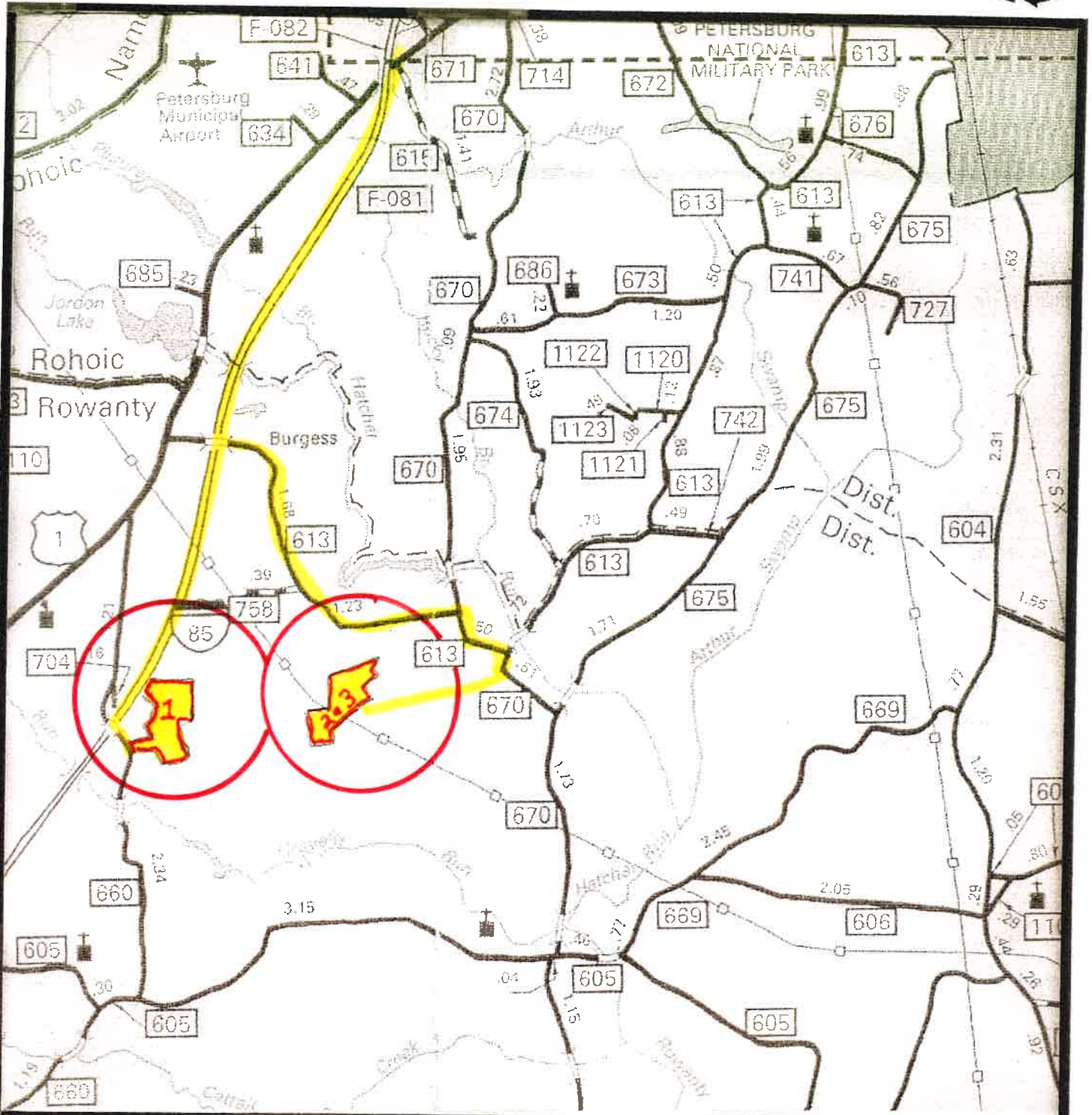
**VICINITY MAP**





# Recyc Systems<sup>TM</sup> Inc.

(Biosolids Land Application)



**Scale:** 1 inch = 1 mile

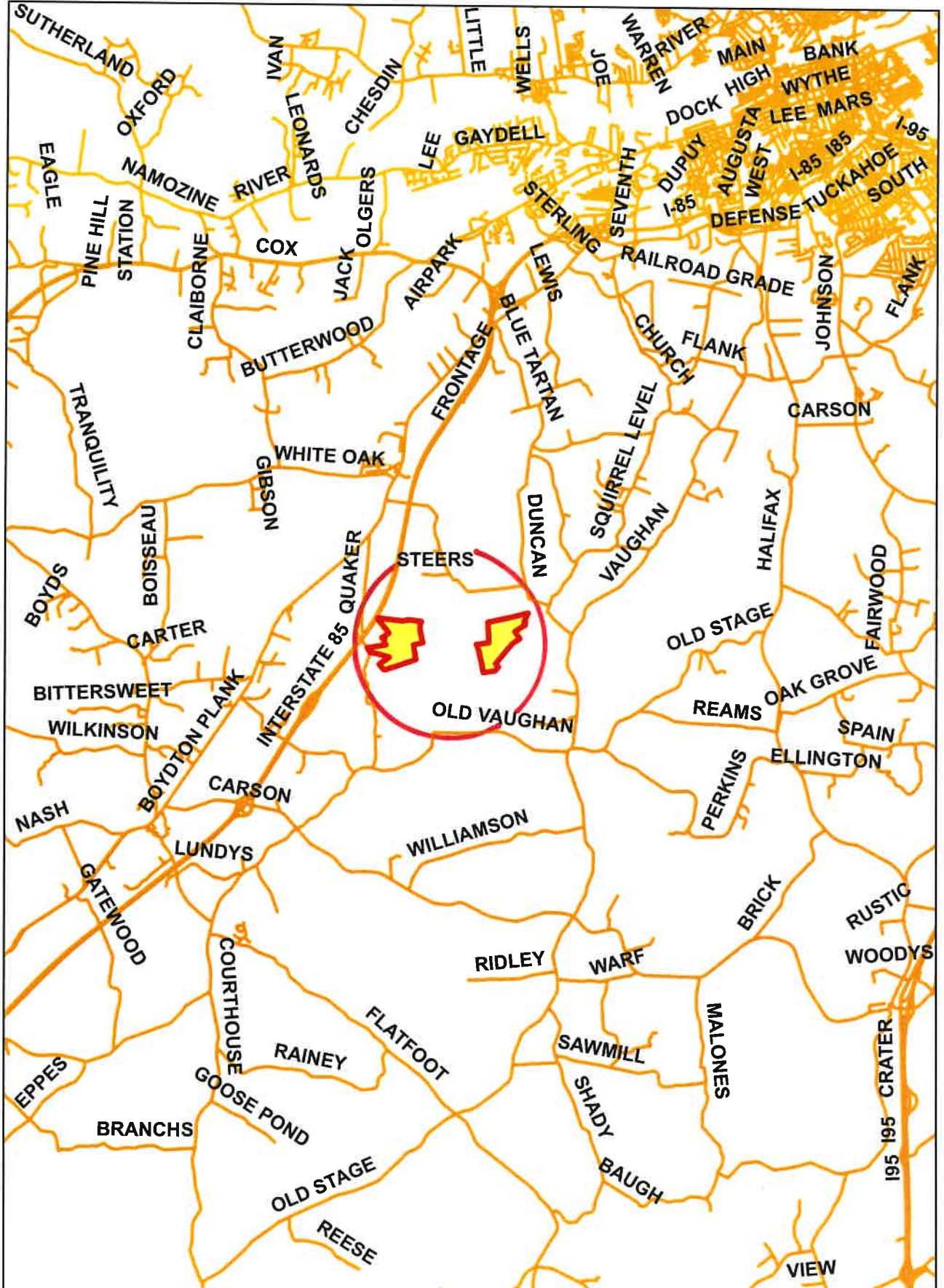
DWCVS 1-3

Truck  
Route

**VICINITY MAP**

6-14-23

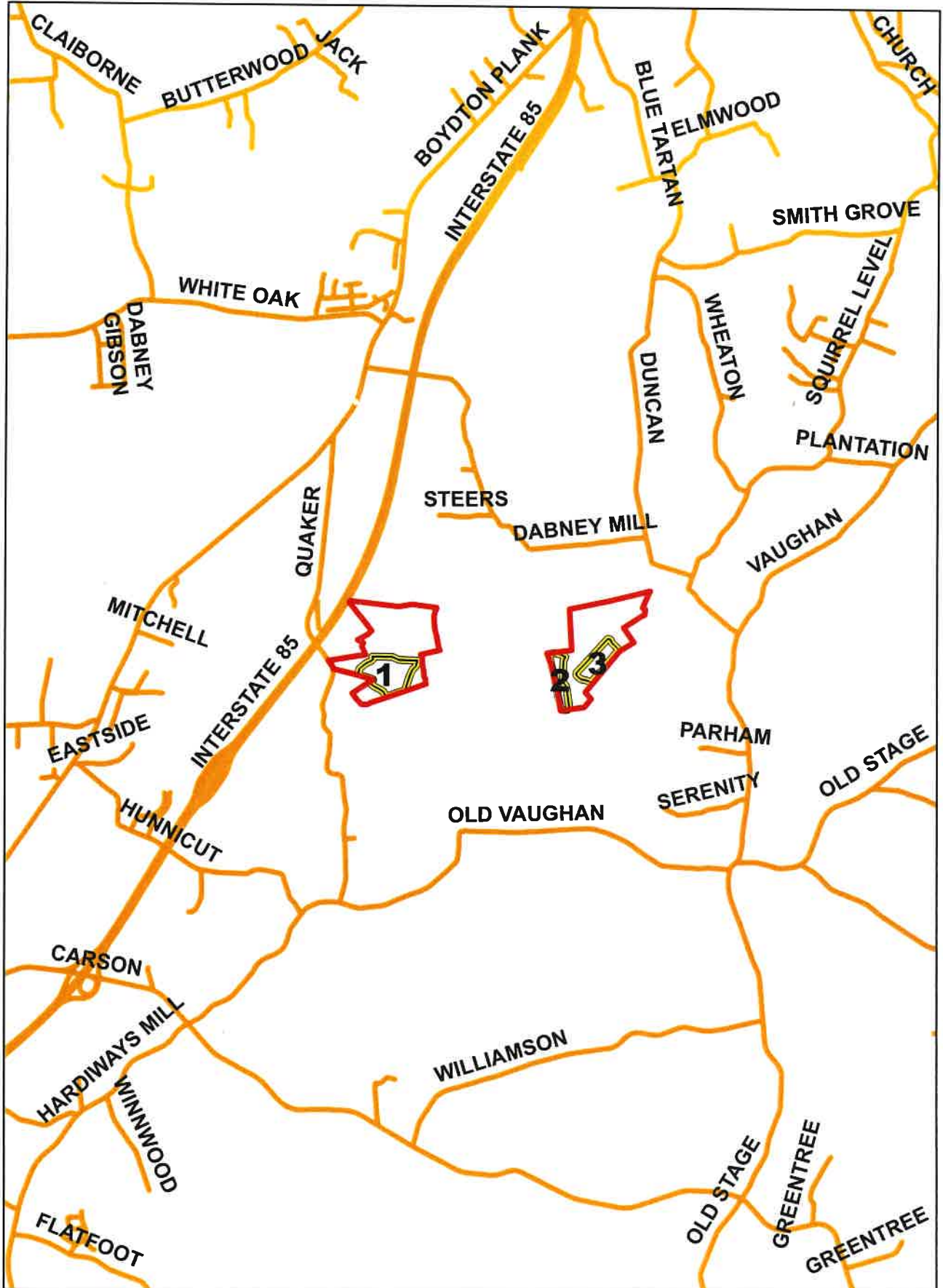




6-14-23

Vicinity Map

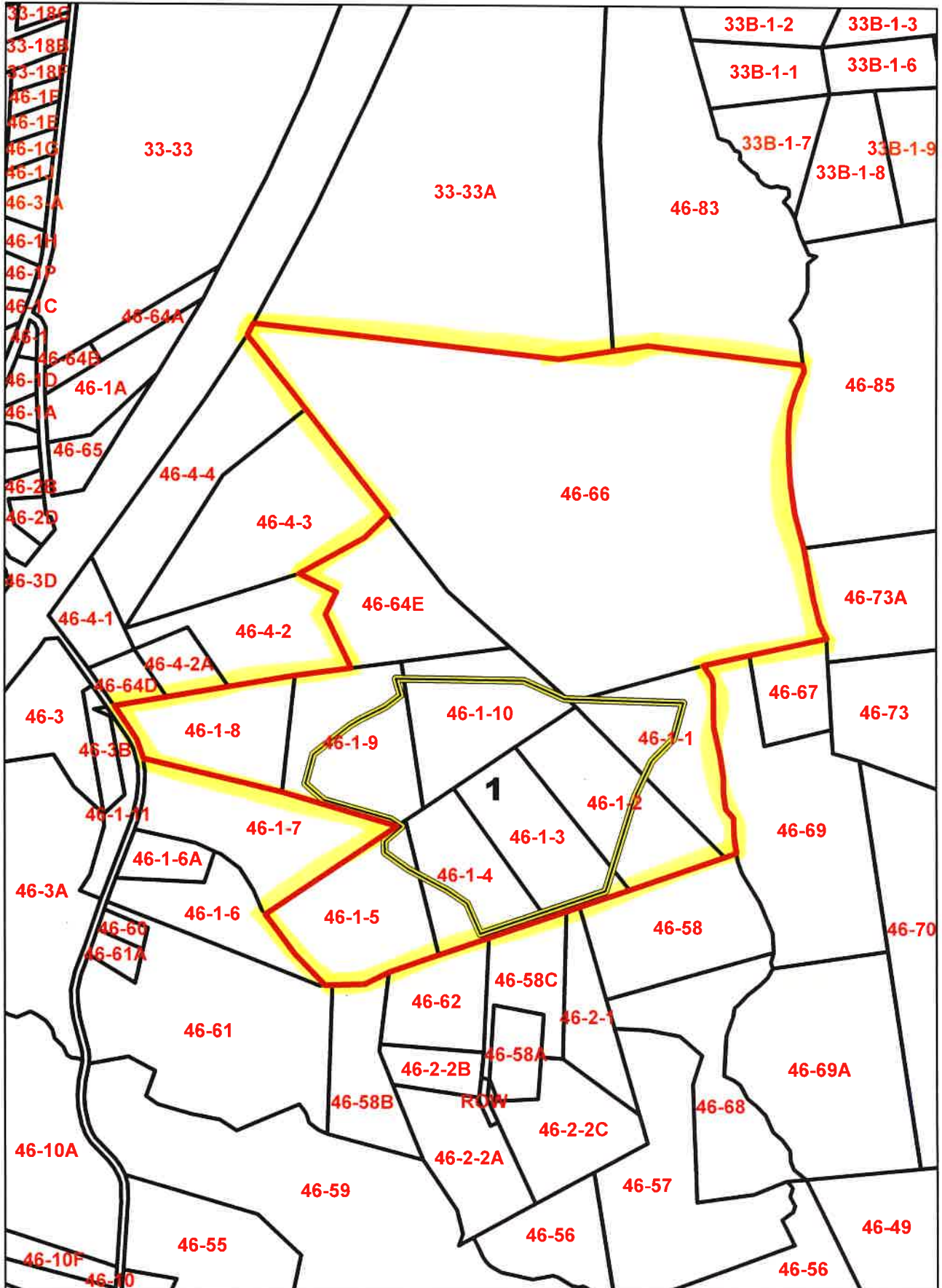
1 in = 2 miles



6-14-23

Vicinity Map

1 in = 1 miles

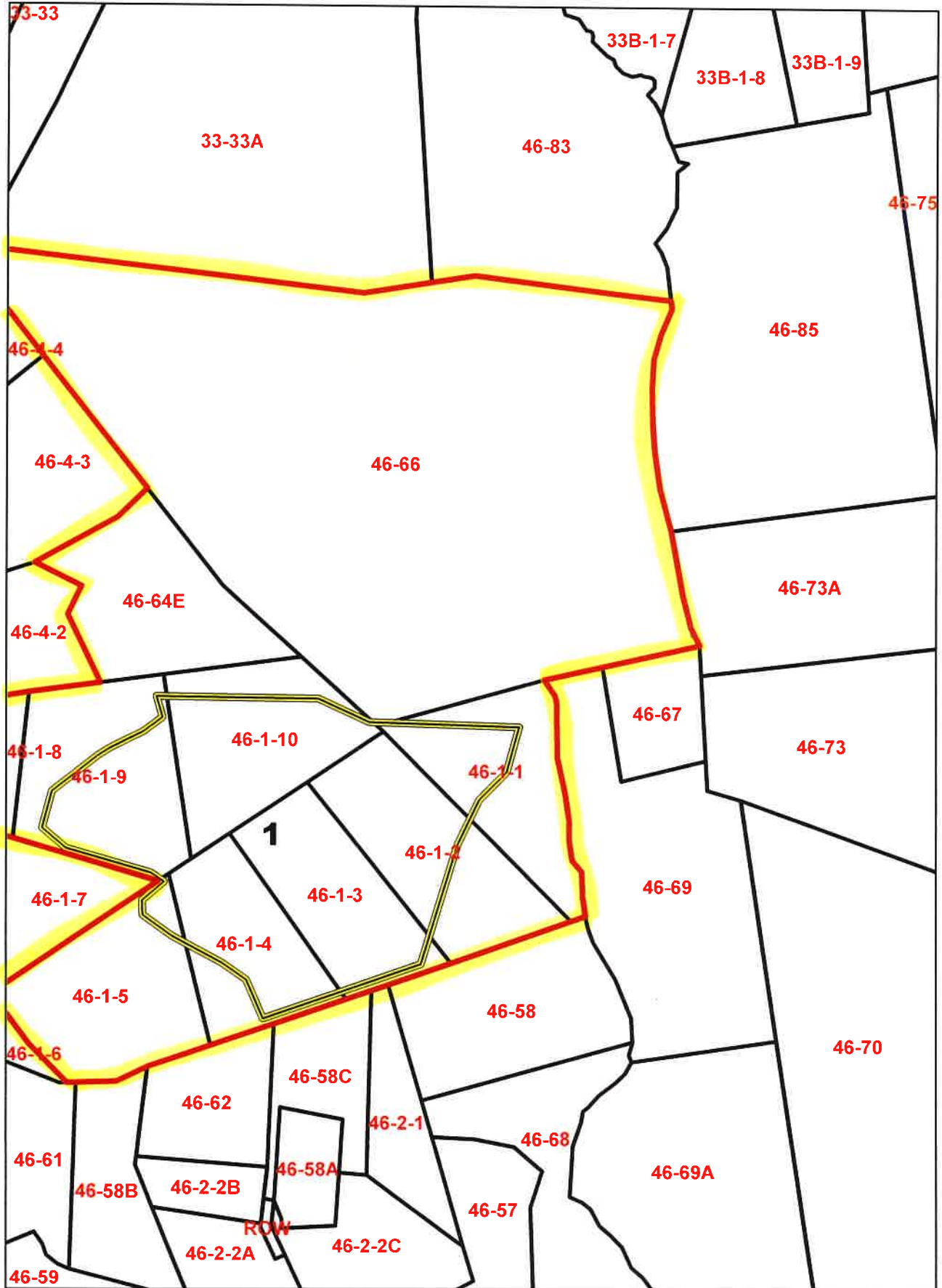


6-14-23

Tax Map

1 in = 833 feet

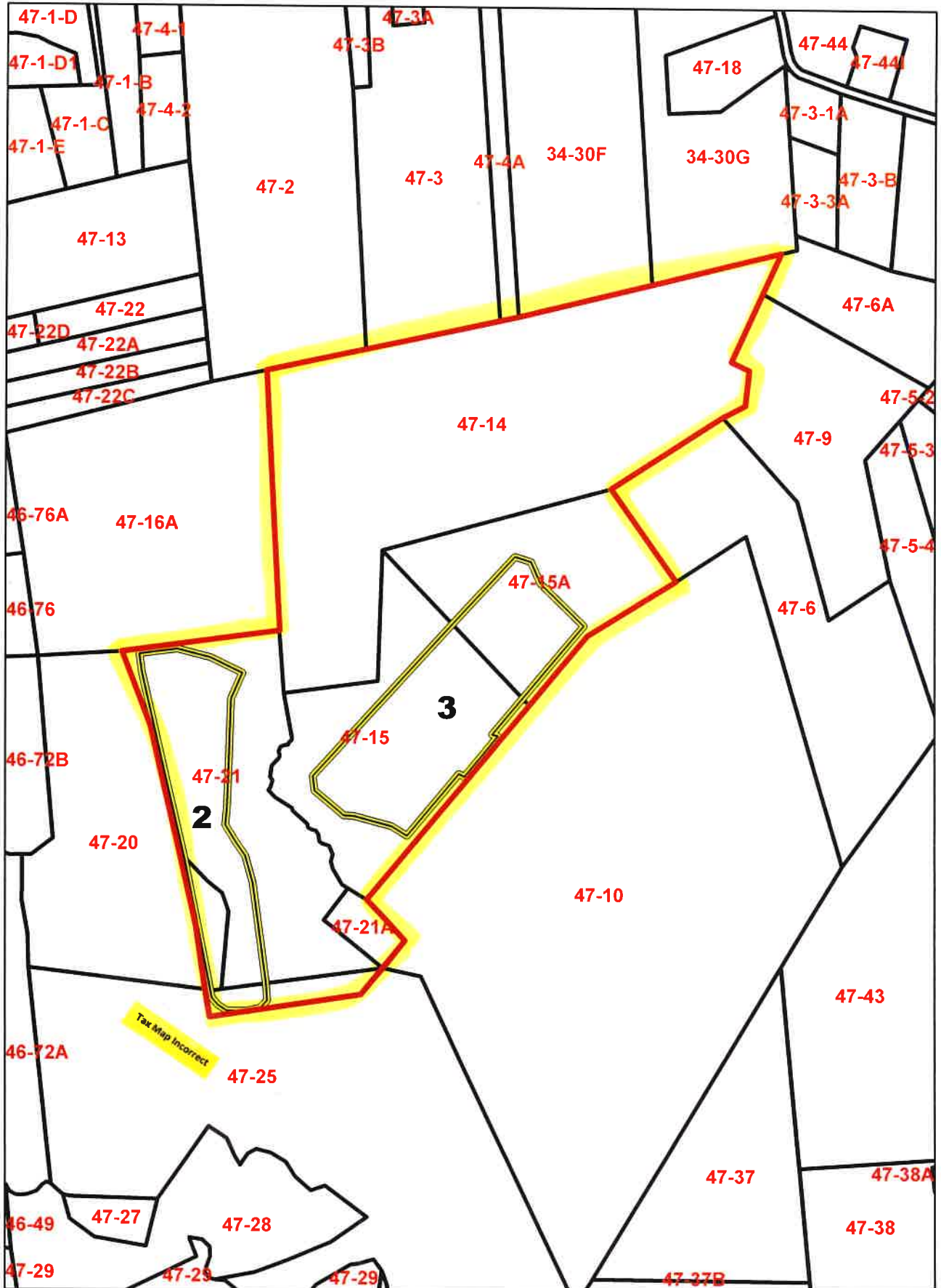




6-14-23

Tax Map

1 in = 660 feet



Tax Map Incorrect

2

3



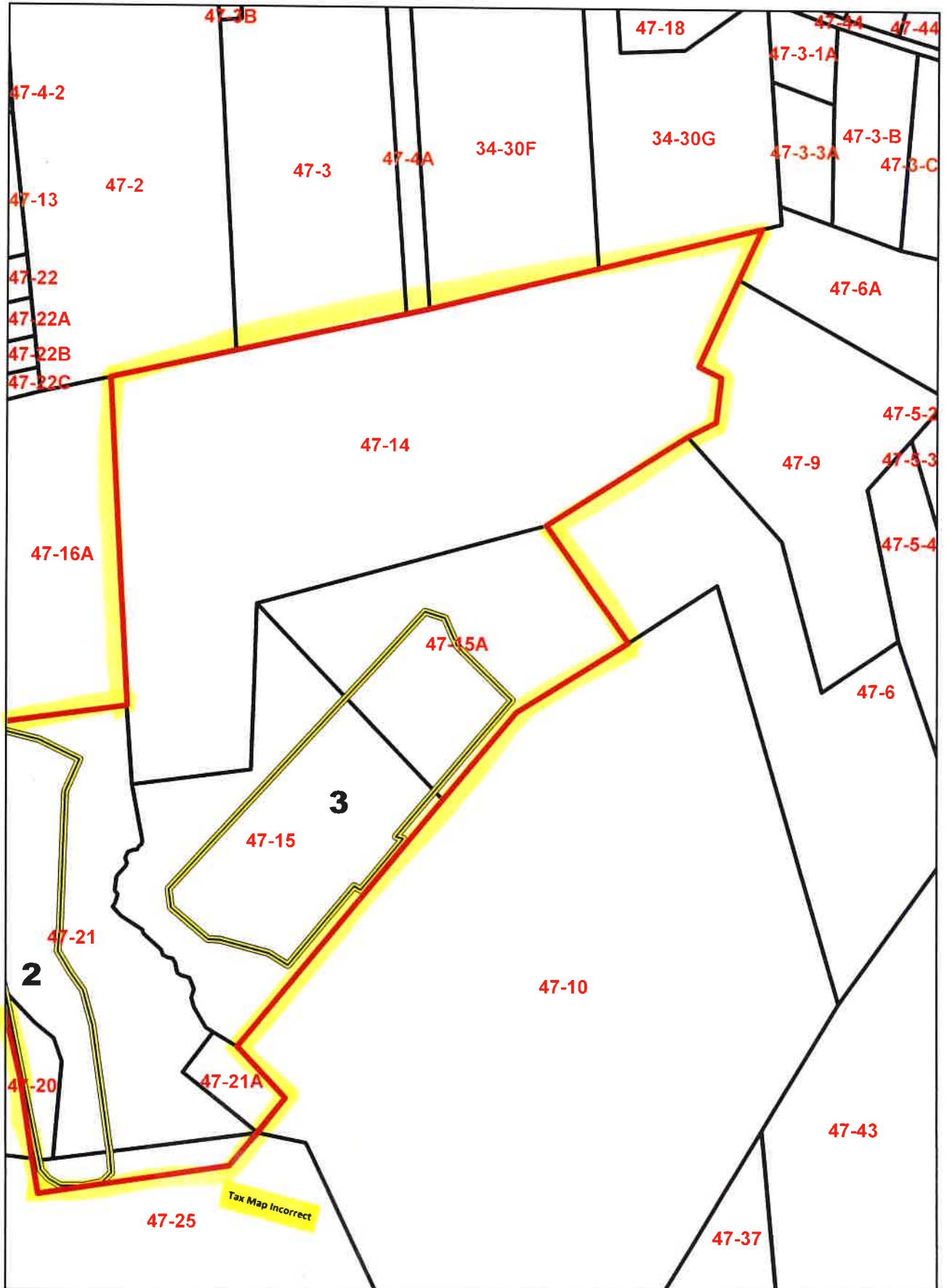
6-14-23

Tax Map

1 in = 833 feet







6-14-23

Tax Map

1 in = 660 feet

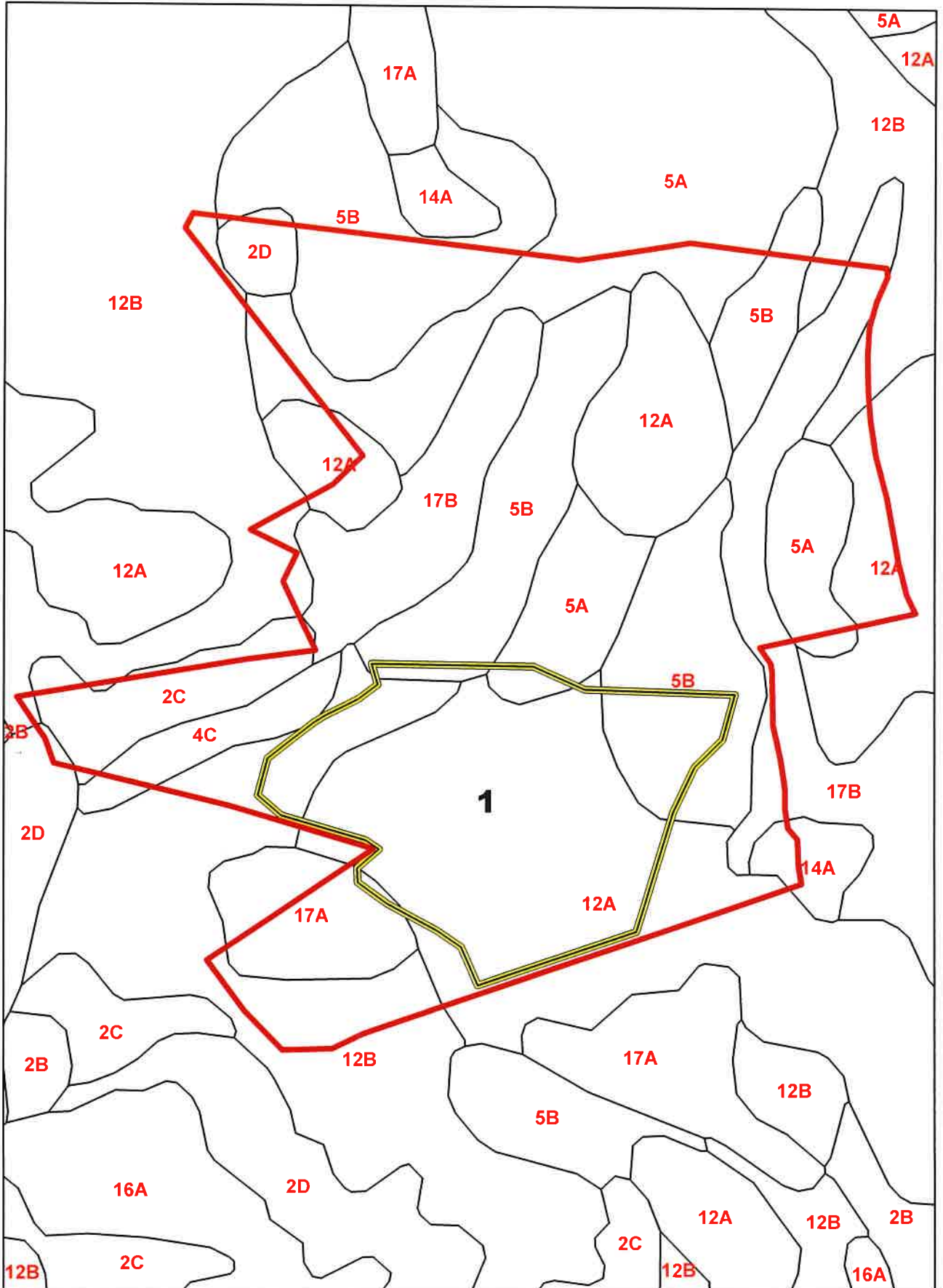
# ADJOINING LANDOWNERS

## CARL V. SHELL

### DINWIDDIE COUNTY

Tax Map	Parcel #	Owner Name(s)
33	33A	Carl V. Shell Jr. and Susan S. Eubank
34	30F 30G	William E. Bishop III Donald W. or Carolyn B. Wilkins
46	58 58B 58C 61 62 64D 67 69 73A 83 85	Carl V. Shell Jr. and Susan S. Eubank Carl V. Shell Jerome and Tonya Henderson Blackwolf Properties LLC Woody G. Stafford et. ux. Shirley C. Lassiter c/o Stacy Lassiter Inez O. Lyons c/o Anthony Shands Jamille R. Shands Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement Anthony M. Shands et. als. Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
46-1	6 7 11	John D. and Jennifer S. Weber Shonda and Ampy Herman Henderson Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
46-2	1	Geneva W. Nunnally
46-4	2 2A 3 4	Shirley C. Lassiter c/o Stacy Lassiter Jarvis O. or Tina M. Lassiter Benjamin E. or Woodard Brown Benjamin E. Brown
47	2 3 4A	Association for the Preservation of Civil War Sites, Inc. Leona I. Hill et. als. Eliza Bell Ruddin c/o Catherine Ruffin-Boyd

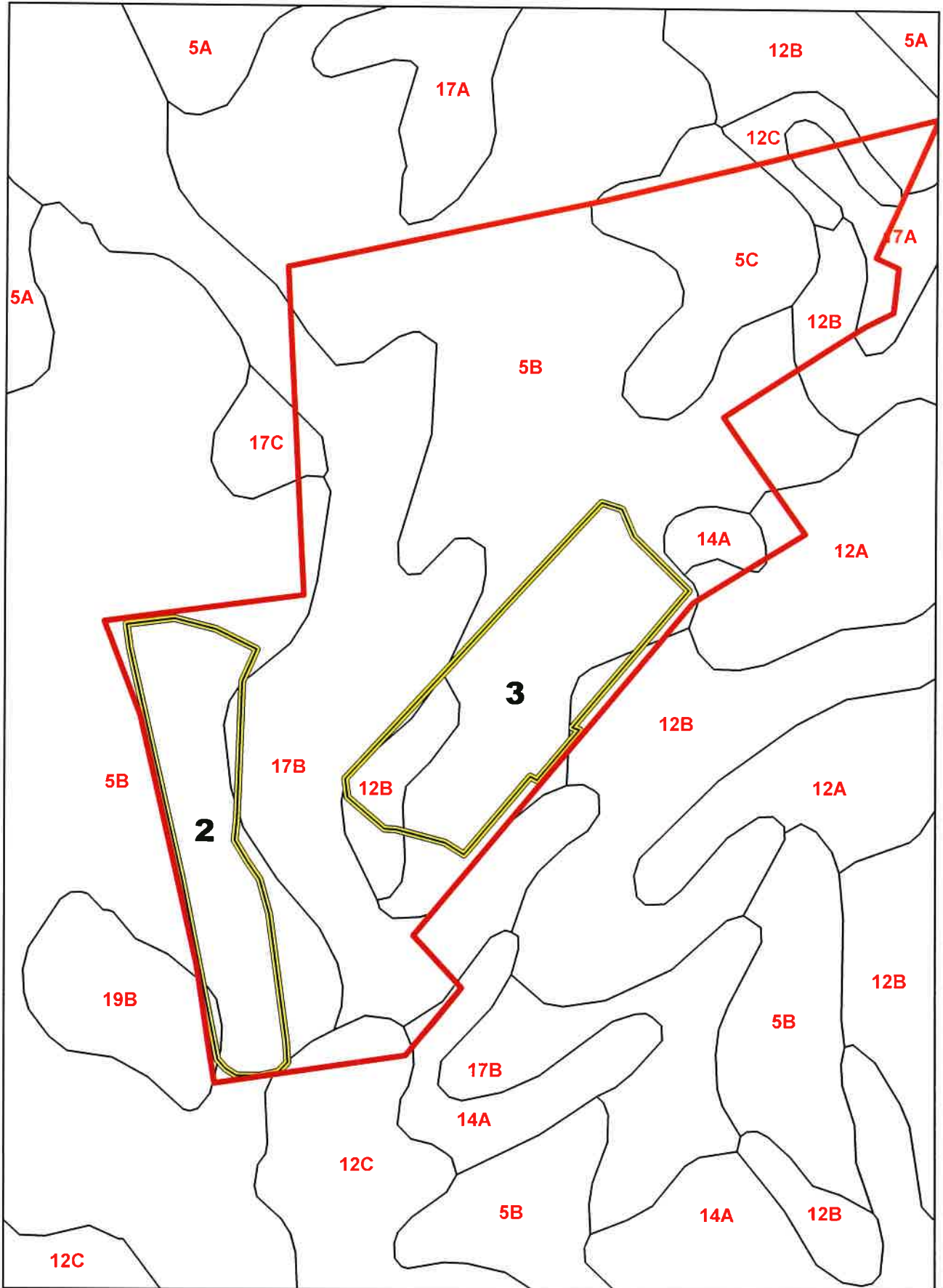
Tax Map	Parcel #	Owner Name(s)
47	6	Howard Randolph Robertson III
	6A	Marion M. Potter Jr.
	9	Marion M. Jr. and Carol G. Potter
	10	Nancy Winn and Scanlon Williams
	16A	Carl V. Shell Sr. Trustee Under Carl V. Shell Sr. Trust Agreement
	20	Martha M. and Charles Mitchell Jackson c/o Adrienne Newby
	25	James Coleman c/o Raymond J. Rivers



6-14-23  
Frequently  
Flooded

Soil Map

1 in = 660 feet



6-14-23  
 Frequently  
 Flooded

**Soil Map**

1 in = 660 feet

# Recyc Systems<sup>TM</sup> Inc.

(Biosolids Land Application)



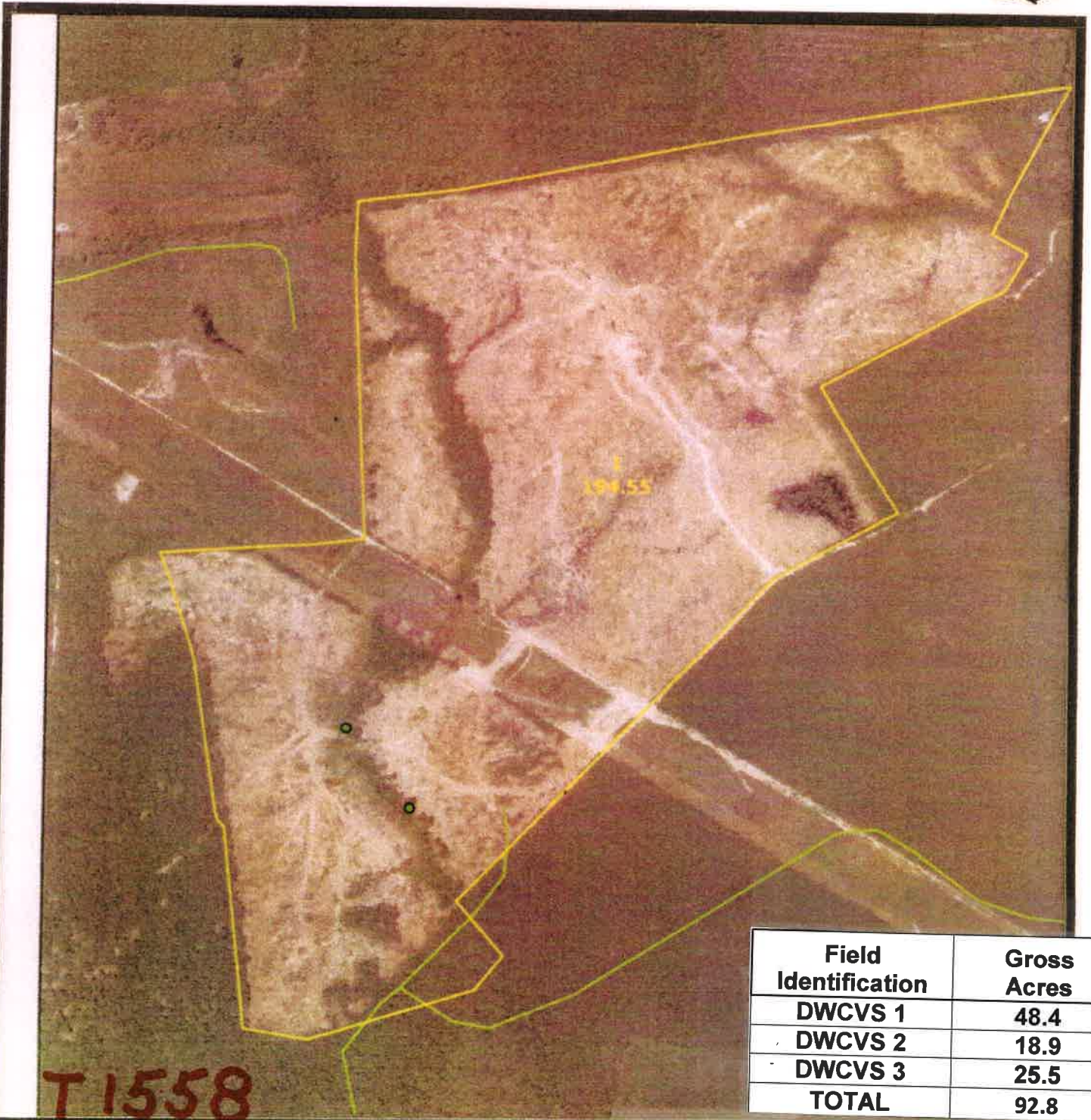
Field Identification	Gross Acres
DWCVS 1	48.4
DWCVS 2	18.9
DWCVS 3	25.5
TOTAL	92.8

Scale: 1 inch = 660 feet

DWCVS 1

AERIAL MAP





Field Identification	Gross Acres
DWCVS 1	48.4
DWCVS 2	18.9
DWCVS 3	25.5
<b>TOTAL</b>	<b>92.8</b>















**Scale:** 1 inch = 660 feet

DWCVS 2-3

**AERIAL MAP**

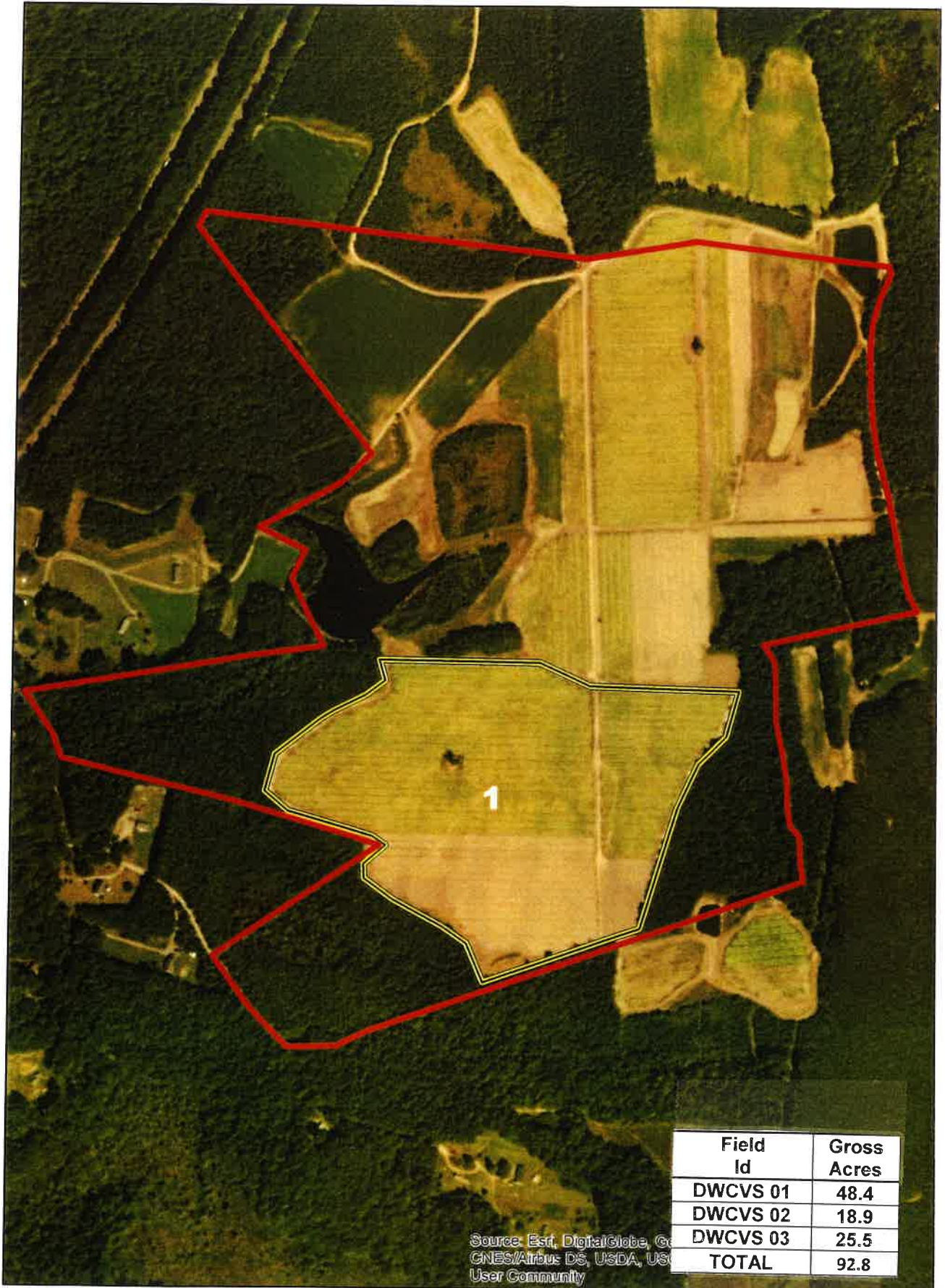


# Legend For Site Plan

Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
	Wet Spot	
	Trees and Woods	
	Private Drive	
	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
	Severely Eroded Spot	18 Inch minimum depth of soil
	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
	Property Line	100 feet from property line *
	Slope	15% maximum
	Hashed out Area	No application

\*Buffer can be reduced or waived upon written consent from landowner.





Field Id	Gross Acres
DWCVS 01	48.4
DWCVS 02	18.9
DWCVS 03	25.5
<b>TOTAL</b>	<b>92.8</b>

Source: Esri, DigitalGlobe, GeoEye, IGN, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, Esri, User Community



6-14-23

# Aerial Map

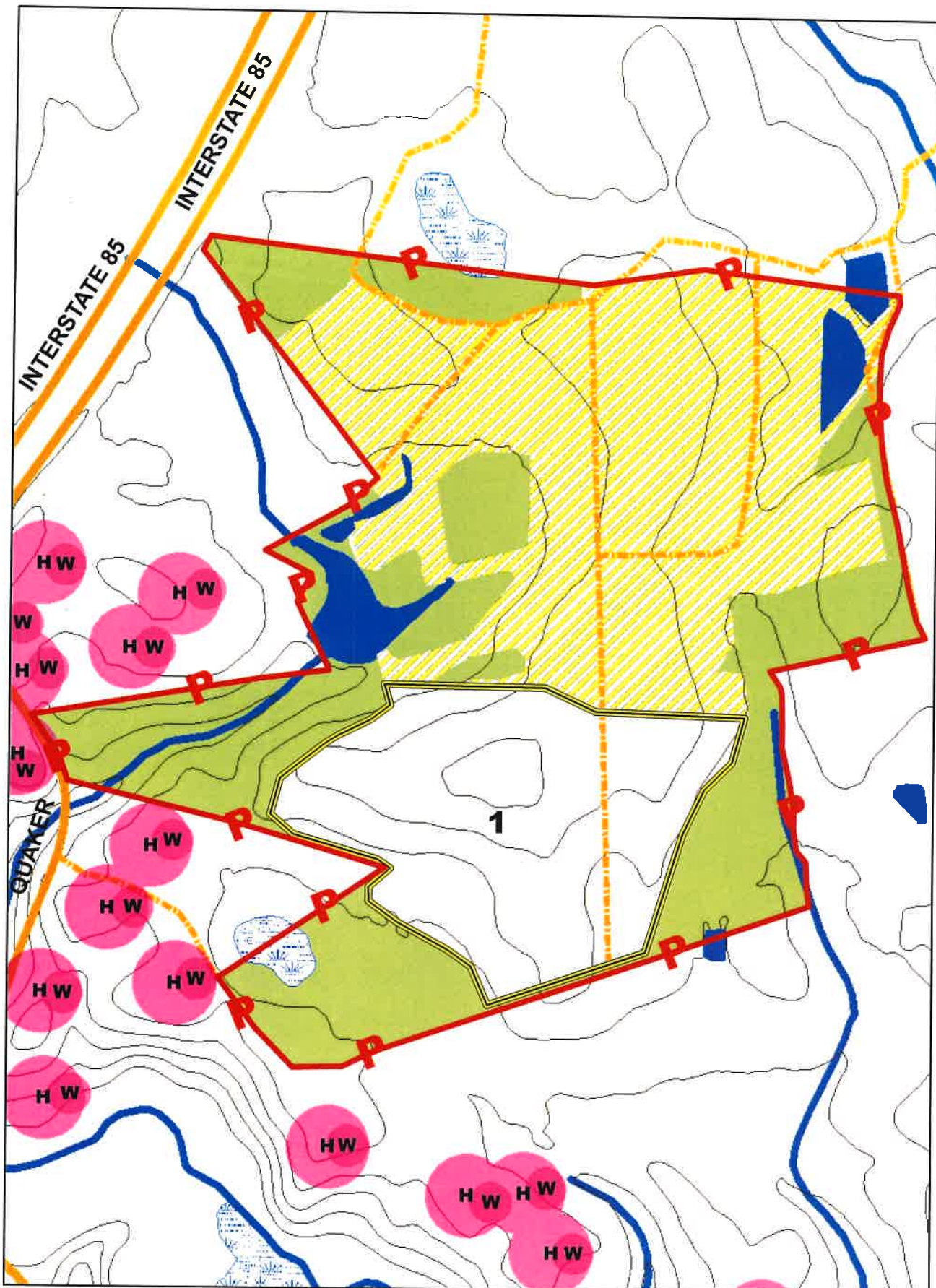
1 in = 660 feet



6-14-23

**Aerial Map**

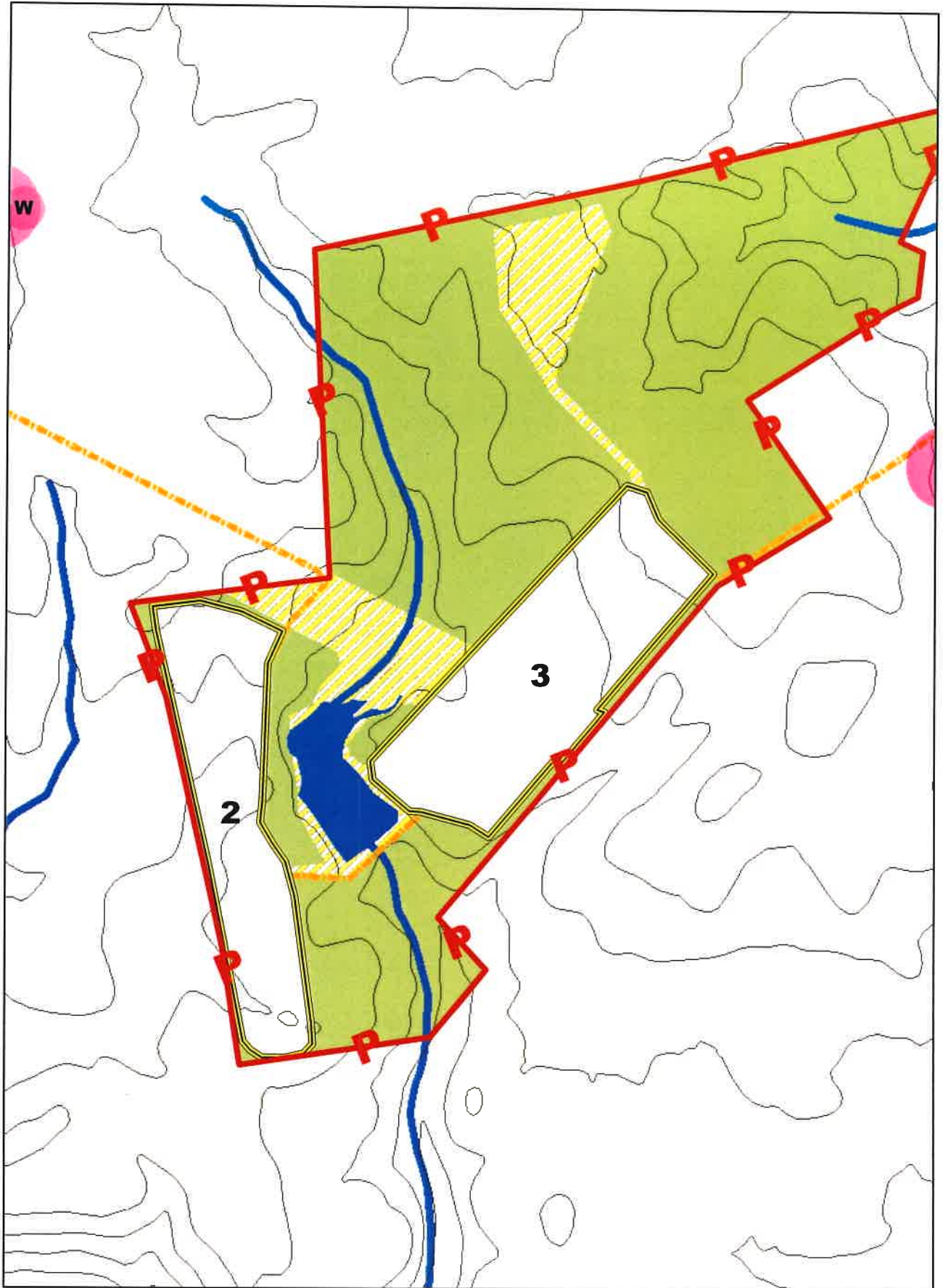
1 in = 660 feet



6-14-23

Site Map

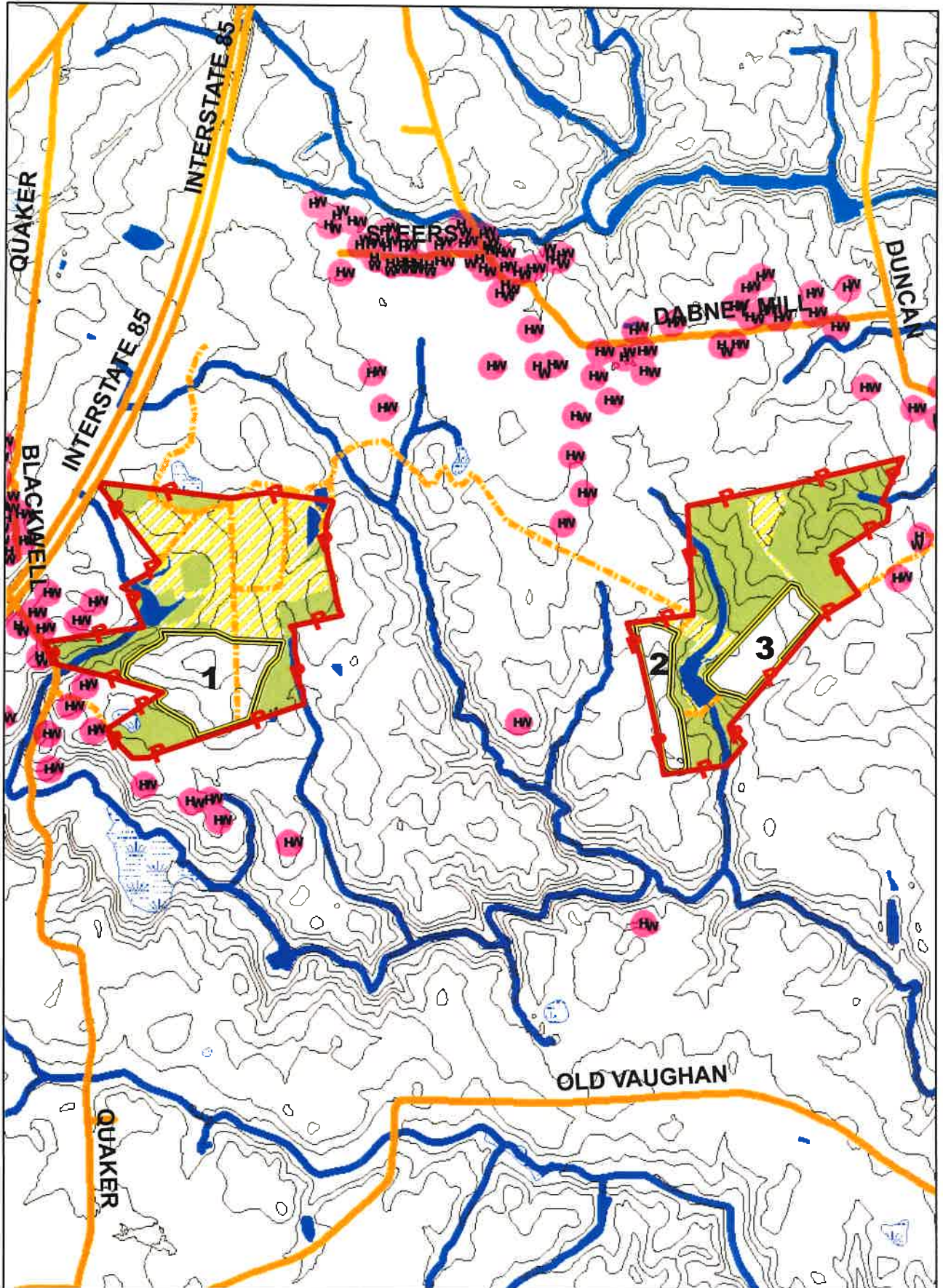
1 in = 660 feet



6-14-23

Site Map

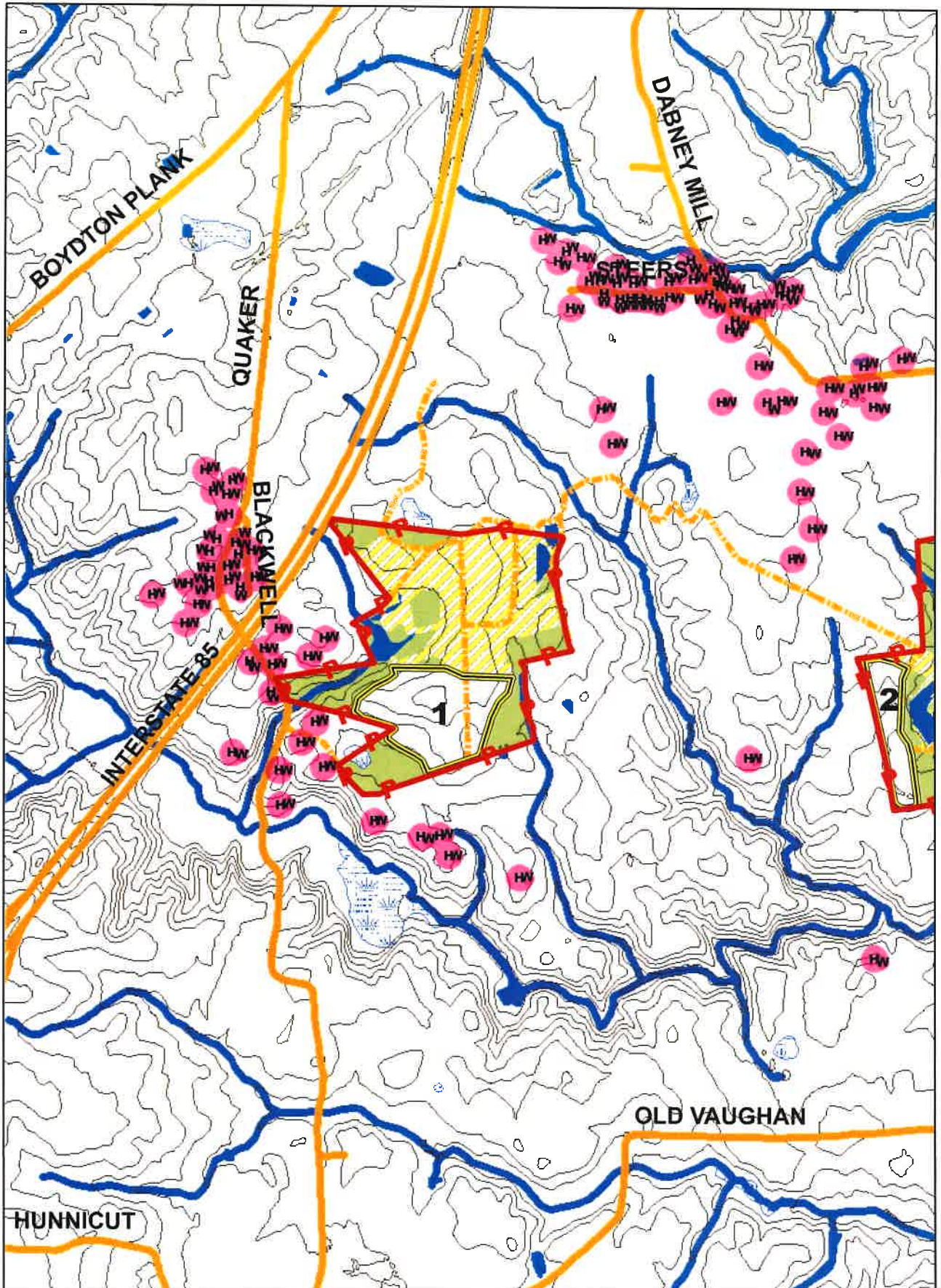
1 in = 660 feet



6-14-23

Topographic Map

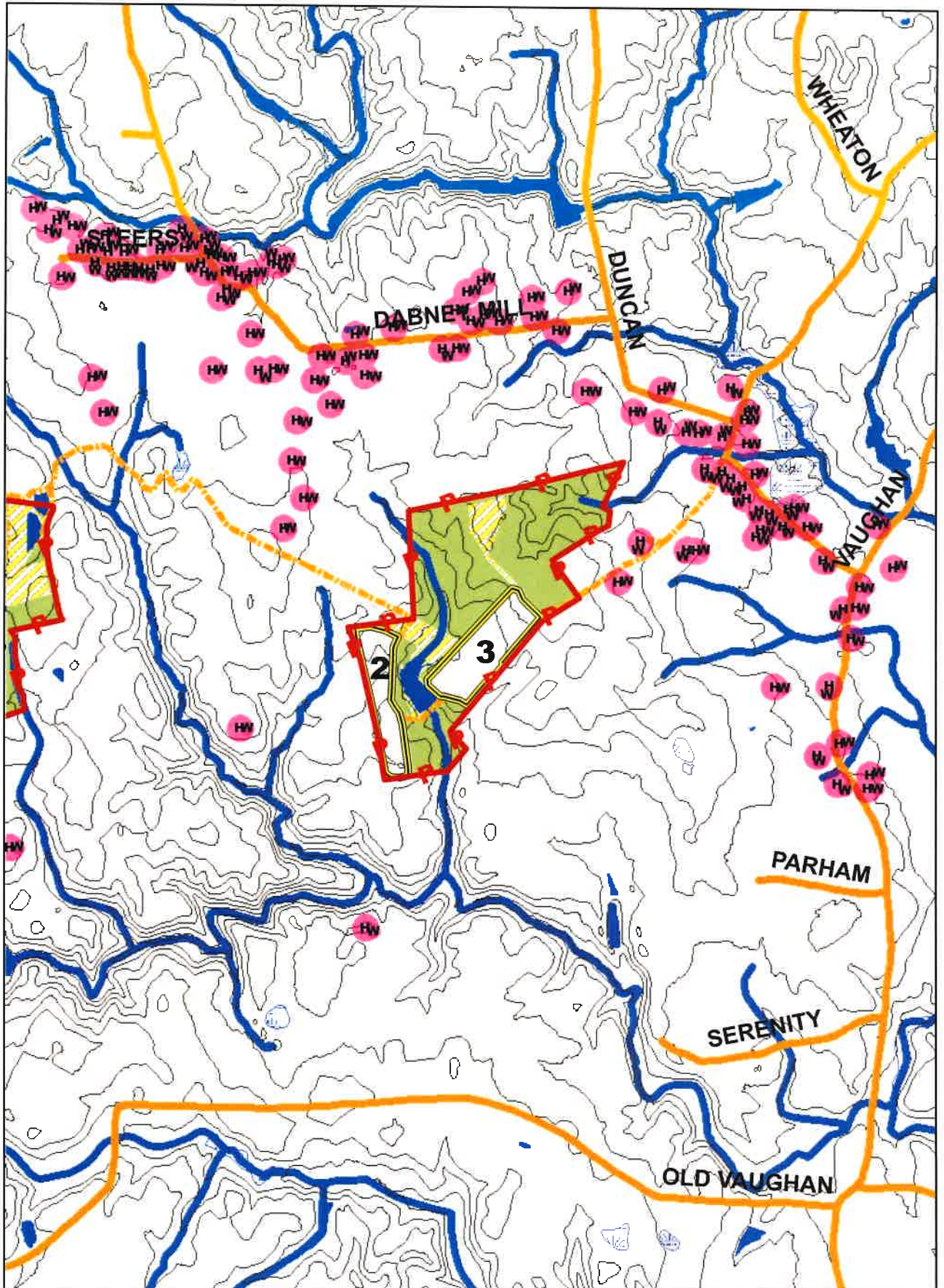
1 in = 2,000 feet



6-14-23

Topographic Map

1 in = 2,000 feet



6-14-23

Topographic Map

1 in = 2,000 feet