

**LAND APPLICATION SITE**  
**SOUTHSIDE AG ENTERPRISES,**  
**DWSAE 19 - 23**  
**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 12/15/18 between Southside Ag 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
	38-4		

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.

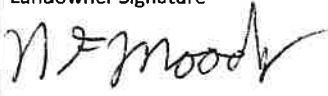
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

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.

Class B biosolids      Water treatment residuals      Food processing waste      Other industrial sludges  
 Yes     No       Yes     No       Yes     No       Yes     No

Printed name <u>Southside Ag Ent. LLC</u>	Mailing Address <u>4524 white oak RD Blackstone, Va 23824</u>	Landowner Signature 
By: <u>Nick A Bady</u>	Phone No. <u>804-596-4221</u>	
Title* <u>OWNER OPERATOR/CEO</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 checked="" 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 <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee- Authorized Representative Signature 
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Dinwiddie

Landowner: Southside Ag

**Landowner Site Management Requirements:**

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

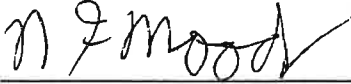
I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

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

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

Following biosolids application to pasture or hayland sites:

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



Landowner's Signature

12/15/18

Date



Operator's Signature

4529 White Oak Rd  
Blackstone, Va. 23824  
mailing address & phone  
804-896-4221

12/15/18

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: Southside Ag Enterprises LLC

County or City: Dinwiddie Co.

Please Print

Signature not required on this page

Tax Parcel ID(s)	Landowner(s)
38-4	Southside Ag Enterprises LLC



**NEW FIELD CHANGES**  
**SOUTHSIDE AG ENTERPRISES LLC**  
**DINWIDDIE COUNTY**

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**THE NEW SOUTHSIDE AG ENTERPRISES LLC BOOK (DWSAE, FIELDS 19-23) IS PART OF THE OLD ALVA S. EMERSON (DWASE) BOOK FROM 11-19-18.**

**NEW FIELD 19 IS OLD FIELD 4 AND NEWLY CLEARED LAND.**

**NEW FIELD 20 IS OLD FIELD 5 AND NEWLY CLEARED LAND.**

**NEW FIELD 21 IS OLD FIELD 6 AND NEWLY CLEARED LAND.**

**NEW FIELD 22 IS NEWLY CLEARED LAND.**

**NEW FIELD 23 IS OLD FIELDS 1 AND 7 AND NEWLY CLEARED LAND.**

# 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				
DWSAE 19	6.5	9B Jan.-Apr.	-	-	-	CU 19	38-4	6515	1
DWSAE 20	57.9	9B Jan.-Apr.	-	-	-	CU 19	38-4	6515	11
DWSAE 21	58.2	-	-	-	-	CU 19	38-4	6515	9, 10
DWSAE 22	29.9	-	-	-	-	CU 19	38-4	6515	None
DWSAE 23	64.7	16A Nov.-Apr.	-	-	-	CU 19	38-4	6515	6, 7
TOTAL ACRES IN SITE	217.2								

## ***Property Identification Card***

**Record Number: 3318**

### **DINWIDDIE COUNTY**

#### **Property Information (Map: 38 4)**

**Owner:**

SOUTHSIDE AG ENTERPRISES LLC

**Legal Description(s):**

NEAR WILSON  
PARCEL 2

**Owner Address:**

4522 WHITE OAK RD

38-4

BLACKSTONE, VA 23824

**Zoned:**

A2

**Total Land Area:**

248.57 Acres

**Prior Assessment:**

\$89,600

\*Land Use Value\*

\$166,282

**Magisterial District:**

DARVILLS

**Property Address:**

911 ADDRESS NOT ON FILE

**Plat Bk/Pg (Instrument):**

17 / 223(22 0003405)

**Remarks:**

BACK TRACT

#### **Assessment Values (Map: 38 4)**

<b>Building 1:</b>	\$0.00
<b>Land Value:</b>	\$537,600
<b>Other Improvements:</b>	\$0.00
<b>Total Value:</b>	\$537,600

#### **Acreage Description (Map: 38 4)**

<b>Size In Acres:</b>	208.07
<b>Description:</b>	
<b>Lump Sum or Per Acre:</b>	Per Acre
<b>Unit Value:</b>	
<b>Adjustment Percentage:</b>	0.00
<b>Utility Value:</b>	2,000
<b>Acreage Value:</b>	\$416,140

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<b>Size In Acres:</b>	40.50
<b>Description:</b>	
<b>Lump Sum or Per Acre:</b>	Per Acre
<b>Unit Value:</b>	



## NUTRIENT MANAGEMENT PLAN IDENTIFICATION

**Operator**  
Nick Moody  
4524 White Oak Road  
Blackstone , VA 23824  
804-896-4221

**Integrator:**None

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

**Watershed Summary**  
watershed: CU19  
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: 217.2  
Cropland: 217.2  
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 3/6/2023  
Valid until 3/6/2025

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

**Nutrient Management Plan Balance Sheet**  
**(Spring, 2023-Summer, 2025)**  
**Southside Ag Enterprises LLC**  
**Planner: John Doe (cert. No. 892)**

Tract: 6515      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/DWSAE 19(N)	7/7	2023	Corn (grain)	100-60-60	20/0				80-60-60	N/A		
11/DWSAE 20(N)	58/58	2023	Corn (grain)	120-60-60	20/0				100-60-60	N/A		
9, 10/DWSAE 21(N)	58/58	2023	Corn (grain)	120-60-60	20/0				100-60-60	N/A		
None/DWSAE 22(N)	30/30	2023	Corn (grain)	120-60-60	20/0				100-60-60	N/A		
6, 7/DWSAE 23(N)	65/65	2023	Corn (grain)	120-60-60	20/0				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
6515	DWSAE 19	7	[No Test]						
6515	DWSAE 20	58	[No Test]						
6515	DWSAE 21	58	[No Test]						
6515	DWSAE 22	30	[No Test]						
6515	DWSAE 23	65	[No Test]						

### *Field Productivities for Major Crops*

<b>Tract Name</b>	<b>Tract/ Field</b>	<b>Field Name</b>	<b>Acres</b>	<b>Predominant Soil Series</b>	<b>Corn</b>	<b>Small Grain</b>	<b>Alfalfa</b>	<b>Grass Hay</b>	<b>Environmental Warnings</b>
6515	6515/1	DWSAE 19	7	Appling	IVb	IV	III	III	
	6515/11	DWSAE 20	58	Appling	IVa	II	III	III	
	6515/9, 10	DWSAE 21	58	Appling	IVa	II	III	III	
	6515/Non e	DWSAE 22	30	Appling	IVa	II	III	III	
	6515/6, 7	DWSAE 23	65	Cecil	IVa	II	III	III	

### *Yield Range*

<b>Field Productivity Group</b>	<b>Corn Grain Bu/Acre</b>	<b>Barley/Intensive Wheat Bu/Acre</b>	<b>Std. Wheat Bu/Acre</b>	<b>Alfalfa Tons/Acre</b>	<b>Grass/Hay Tons/Acre</b>
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 Spring, 2023 - Summer, 2025

**Farm Name:** Southside Ag Enterprises LLC

Location: Dinwiddie

Specialist: John Doe

N-based Acres: 217.2

P-based Acres: 0.0

**Tract Name:** 6515

FSA Number: 6515

Location: Dinwiddie

**Field Name:** DWSAE 19

Total Acres: 6.50 Usable Acres: 6.50

FSA Number: 1

Tract: 6515

Location: Dinwiddie

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
62	2B	Appling
38	9B	Helena

**Field Warnings:**

**Field Name:** DWSAE 20  
Total Acres: 57.90 Usable Acres: 57.90  
FSA Number: 11  
Tract: 6515  
Location: Dinwiddie  
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
5	9B	Helena
15	2C	Appling
80	2B	Appling

**Field Warnings:**

**Field Name:** DWSAE 21  
Total Acres: 58.20 Usable Acres: 58.20  
FSA Number: 9, 10  
Tract: 6515  
Location: Dinwiddie  
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
71	2B	Appling
29	2C	Appling

**Field Warnings:**

**Field Name:** DWSAE 22

Total Acres: 29.90 Usable Acres: 29.90

FSA Number: None

Tract: 6515

Location: Dinwiddie

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
50	2C	Appling

50

2B

Appling

**Field Warnings:**

**Field Name:** DWSAE 23

Total Acres: 64.70 Usable Acres: 64.70

FSA Number: 6, 7

Tract: 6515

Location: Dinwiddie

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
23	2B	Appling
14	2C	Appling
29	4B	Cecil
32	4C	Cecil
3	16A	Roanoke

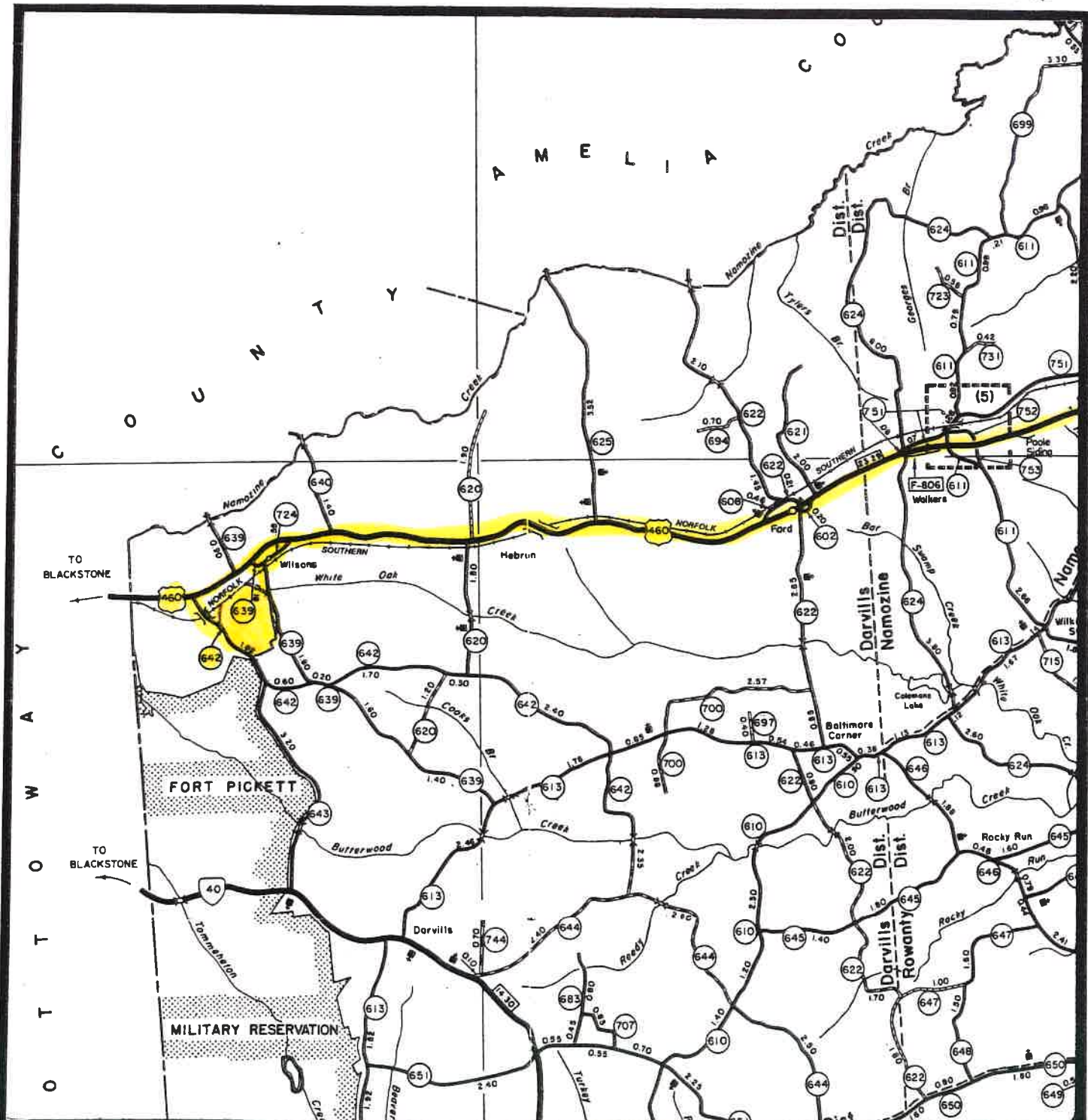
**Field Warnings:**



# MAPS

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

(Biosolids Land Application)



Scale: 1 inch = 2 miles

DWSAE

3-6-23

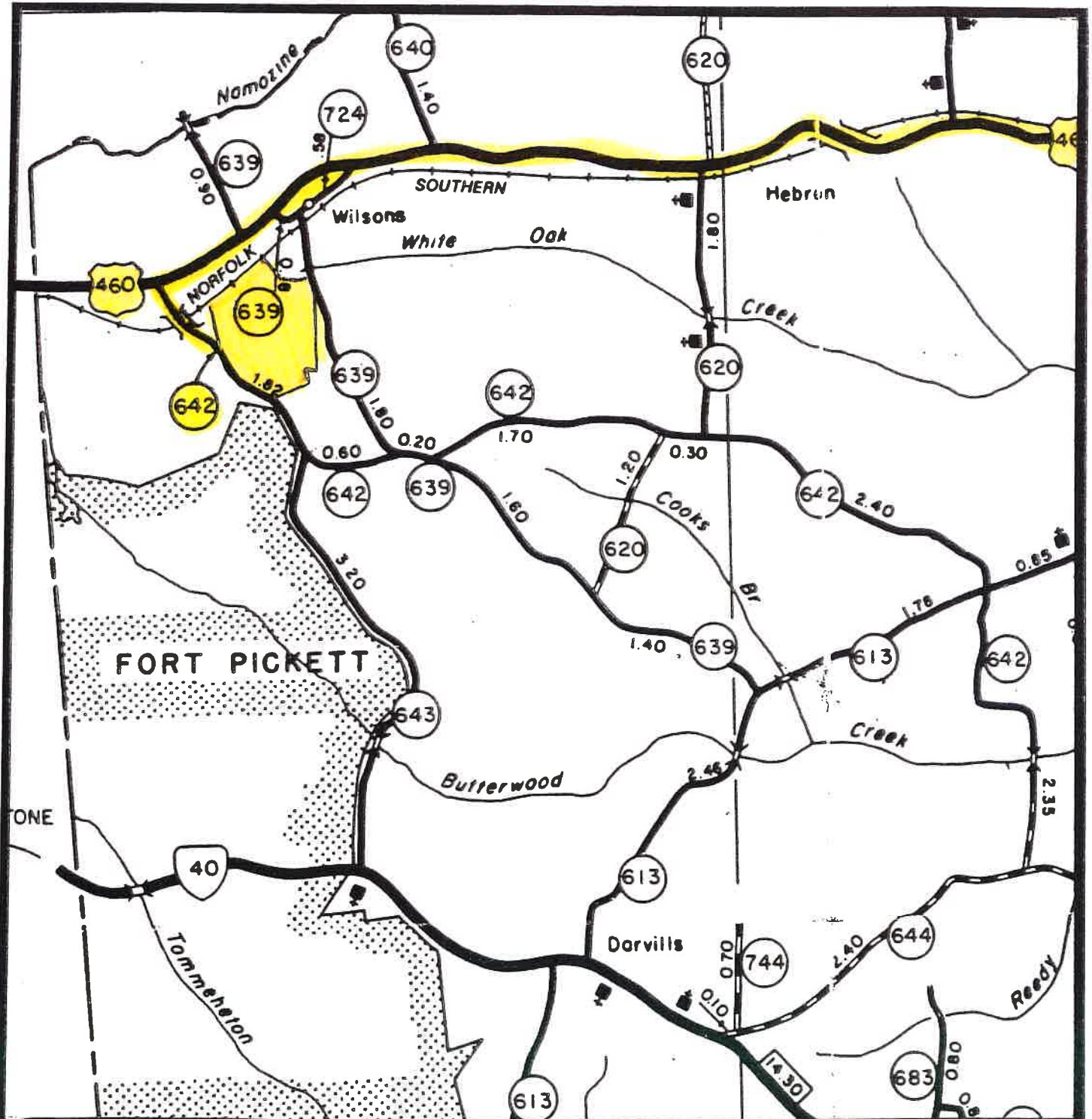
## VICINITY MAP

Truck Route marked in Yellow



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

(Biosolids Land Application)



Scale: 1 inch = 1 mile

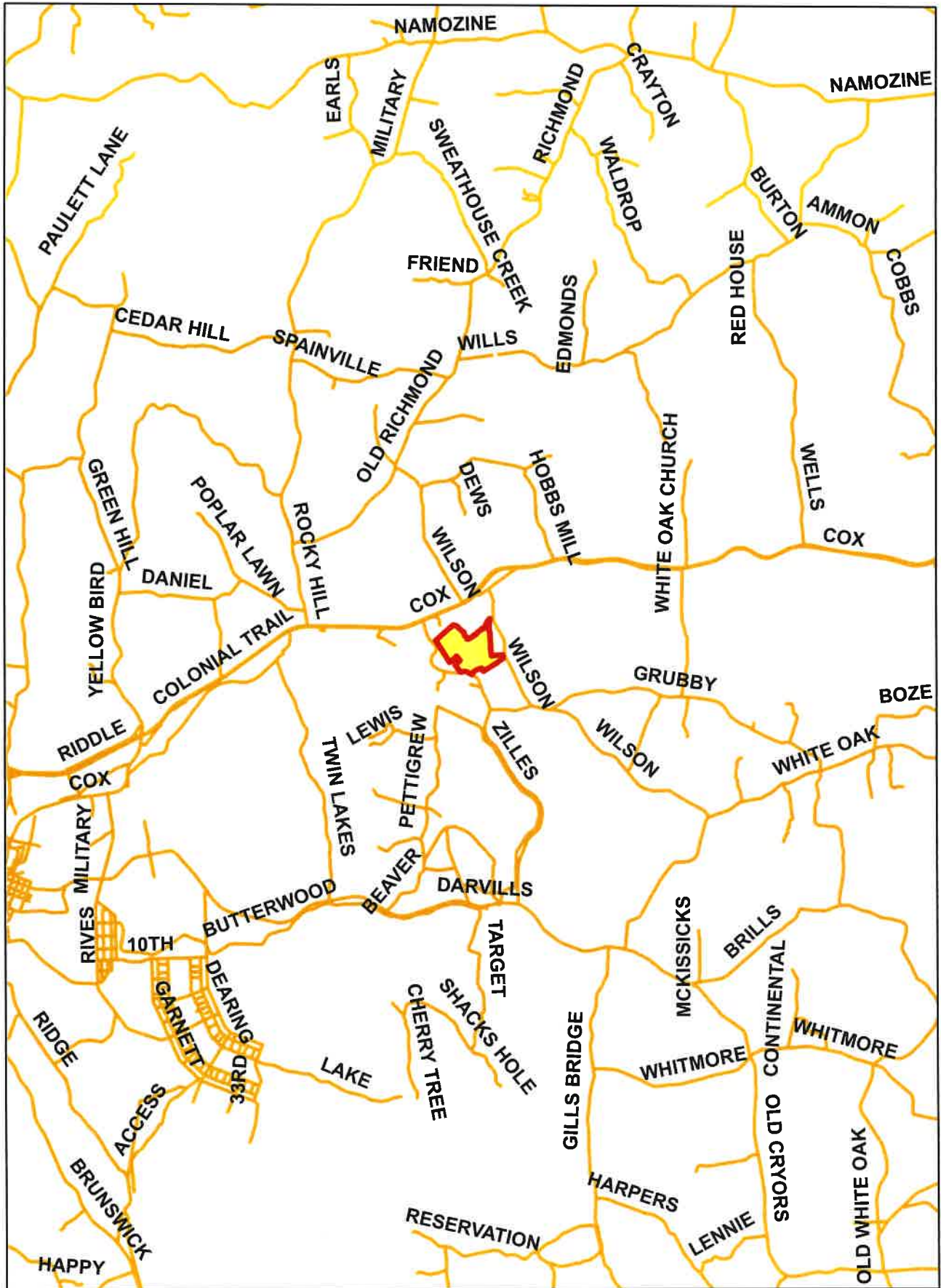
DWSAE

3-6-23

## VICINITY MAP

Truck Route marked in Yellow

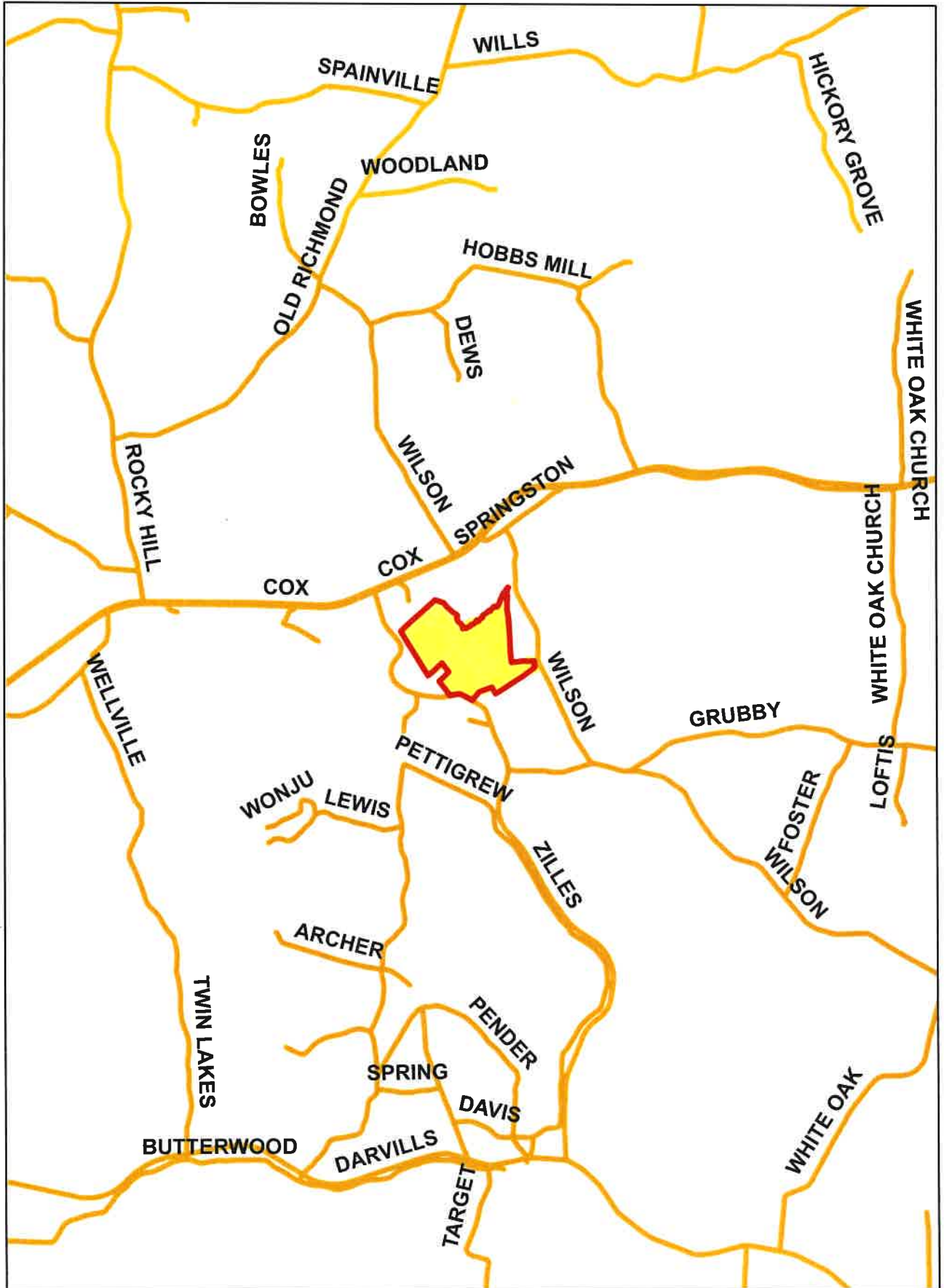




3-2-23

Vicinity Map

1 in = 2 miles



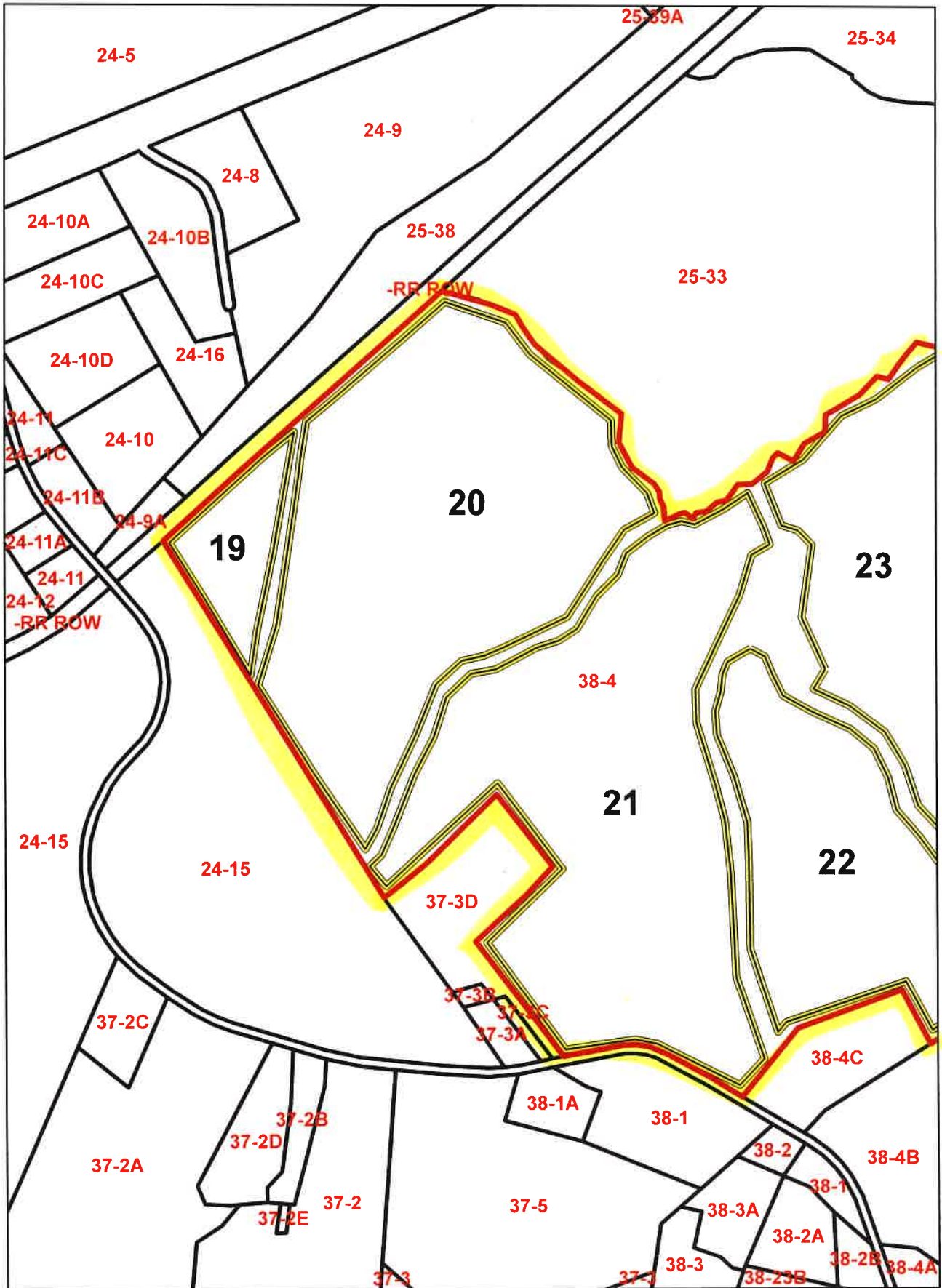
3-2-23

Vicinity Map

1 in = 1 miles





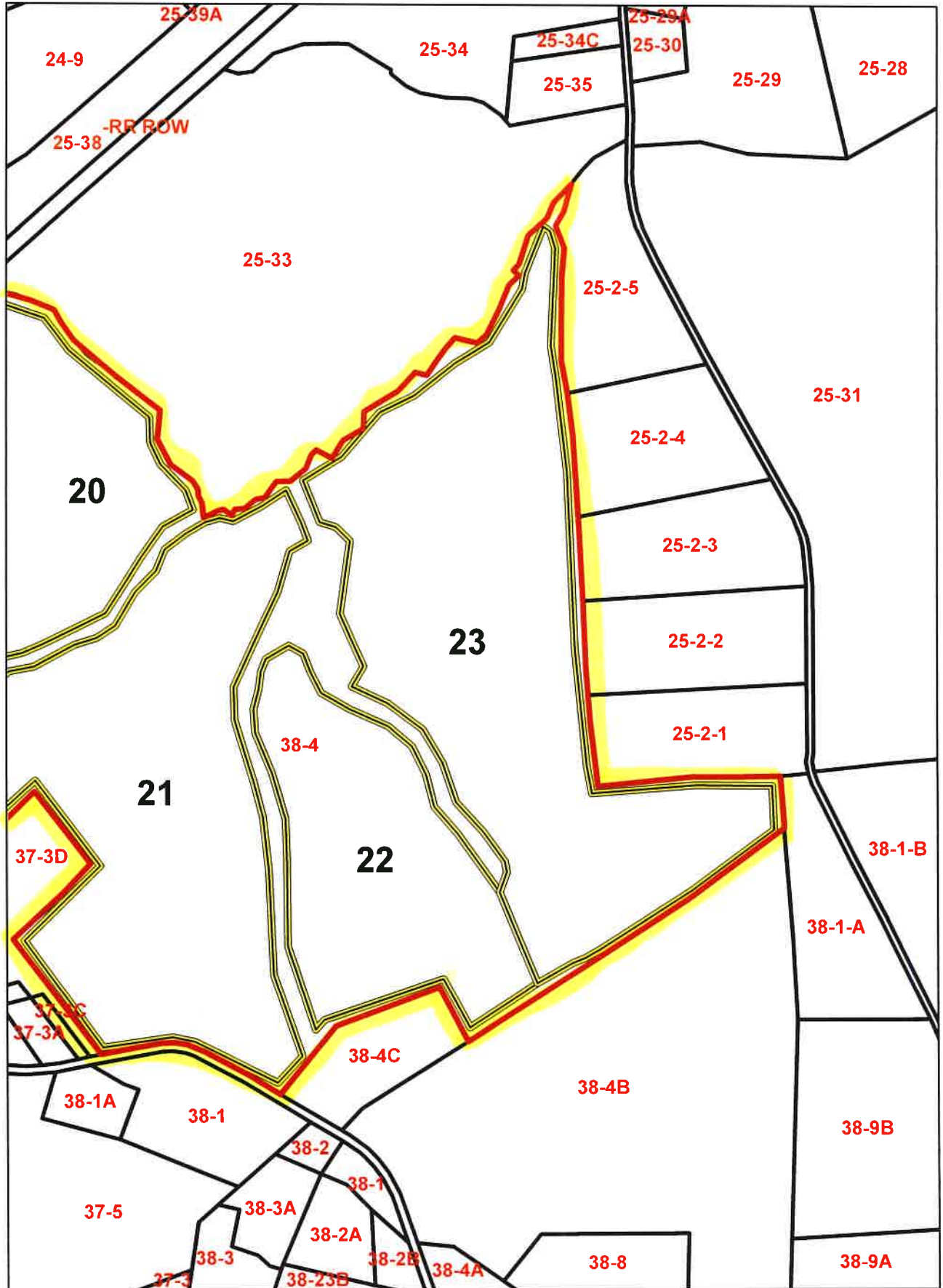


3-2-23

Tax Map

1 in = 660 feet





Tax Map

1 in = 660 feet



# ADJOINING LANDOWNERS

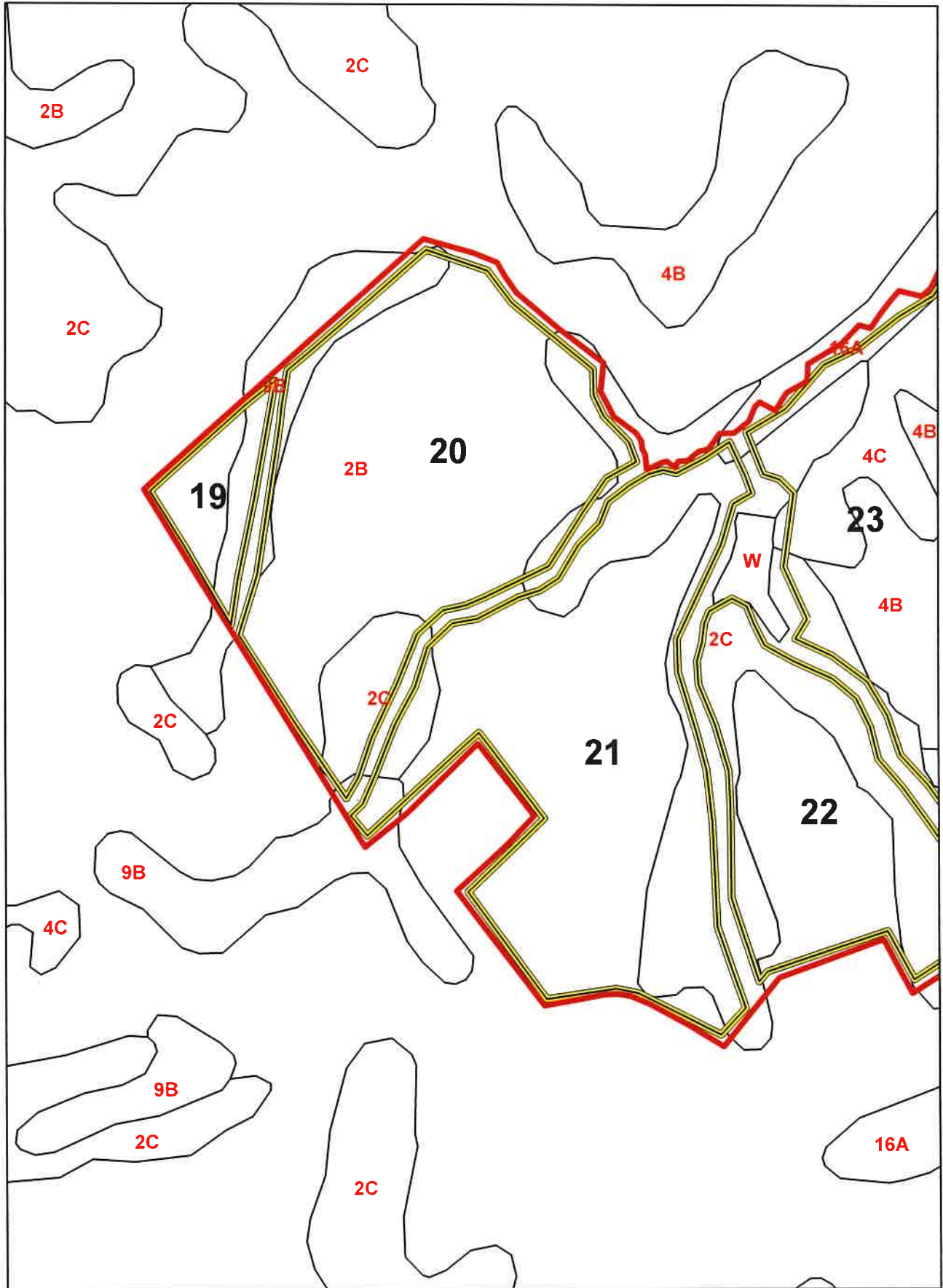
## SOUTHSIDE AG ENTERPRISES LLC

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### DINWIDDIE COUNTY

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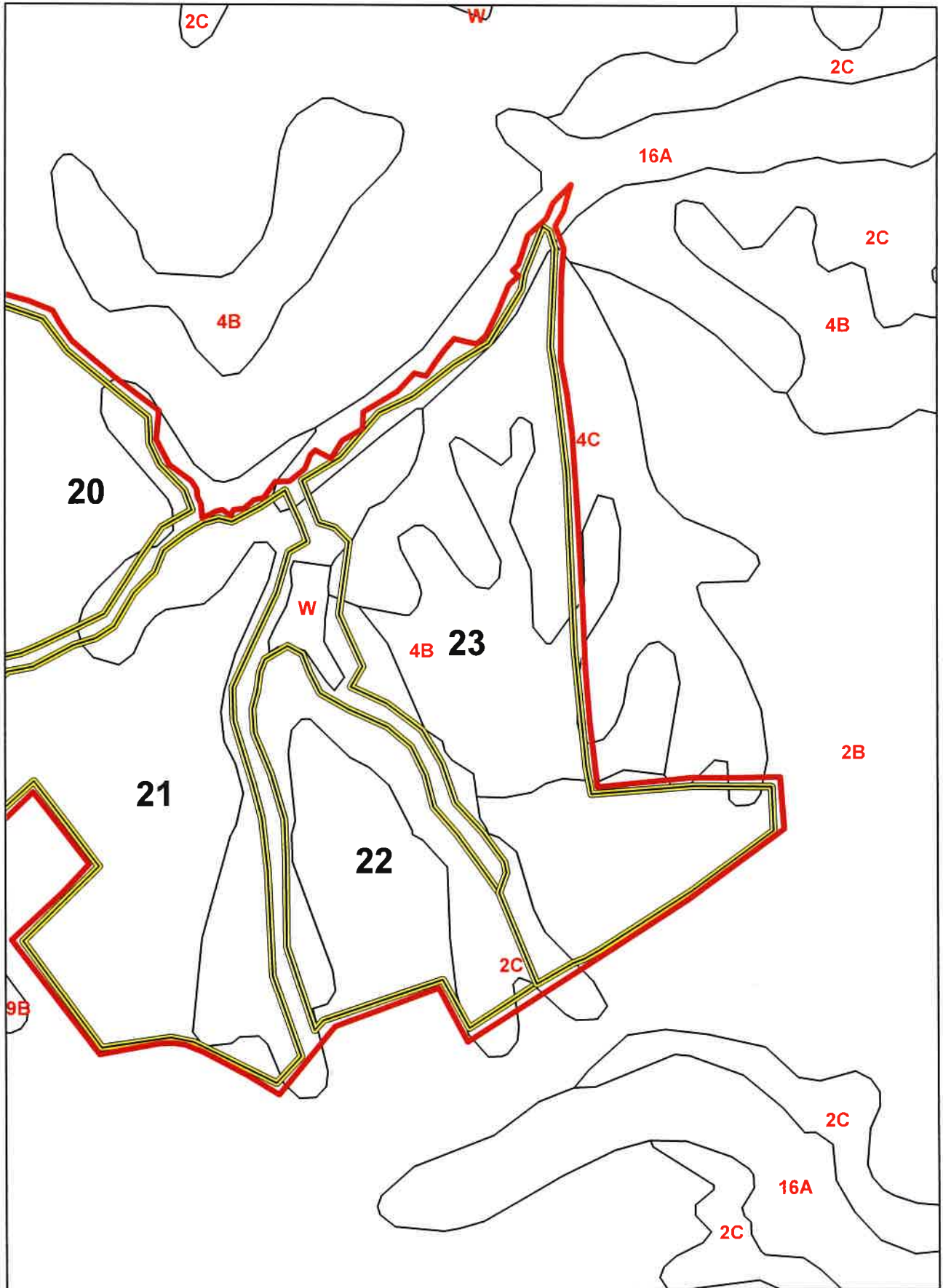
Tax Map	Parcel #	Owner Name(s)
24	9A	Sharon Dalton
	15	Marion Hays Coburn Estate c/o Kennon C. Walden
25	33	John T. Emerson
	38	No Data
25-2	1	Patricio Mazariegos Escobar
	2	Donald E. and Zelma V. Conlee
	3	Frank J. Colatorti
	4	Yolanda M. Walker
	5	Barbara E. Rutherford
37	3D	James F. Emerson Jr.
38	1	WB and Kate Marshall c/o Bettie Perry
	1A	Patricia D. Greenhill
	4B	Harrison A. or Deborah L. Moody
	4C	John Thomas Emerson
38-1	A	Beverly Brandon Pressly



3-2-23  
Frequently  
Flooded

**Soil Map**

1 in = 660 feet

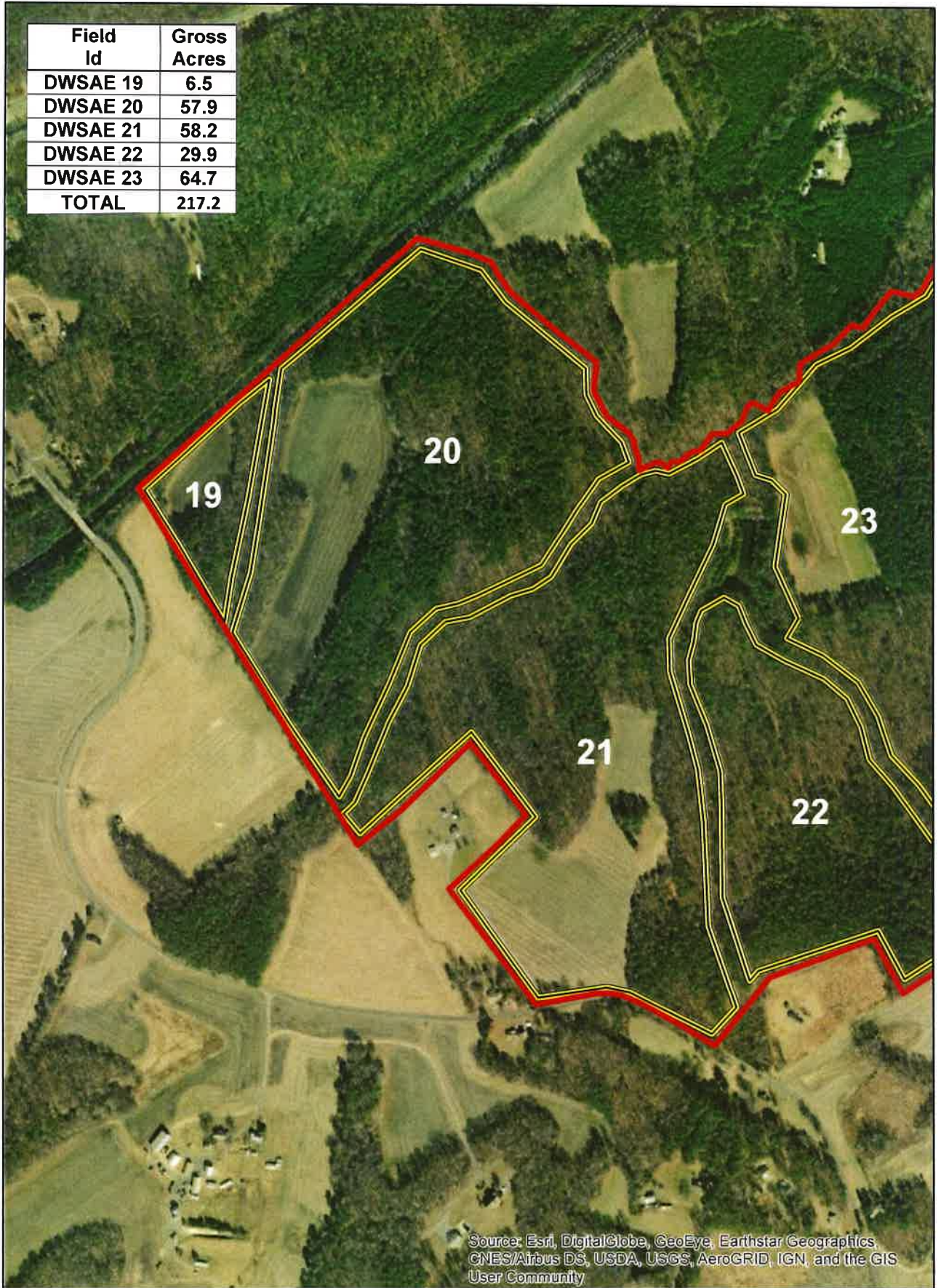


3-2-23  
Frequently  
Flooded

### Soil Map

1 in = 660 feet

Field Id	Gross Acres
DWSAE 19	6.5
DWSAE 20	57.9
DWSAE 21	58.2
DWSAE 22	29.9
DWSAE 23	64.7
TOTAL	217.2



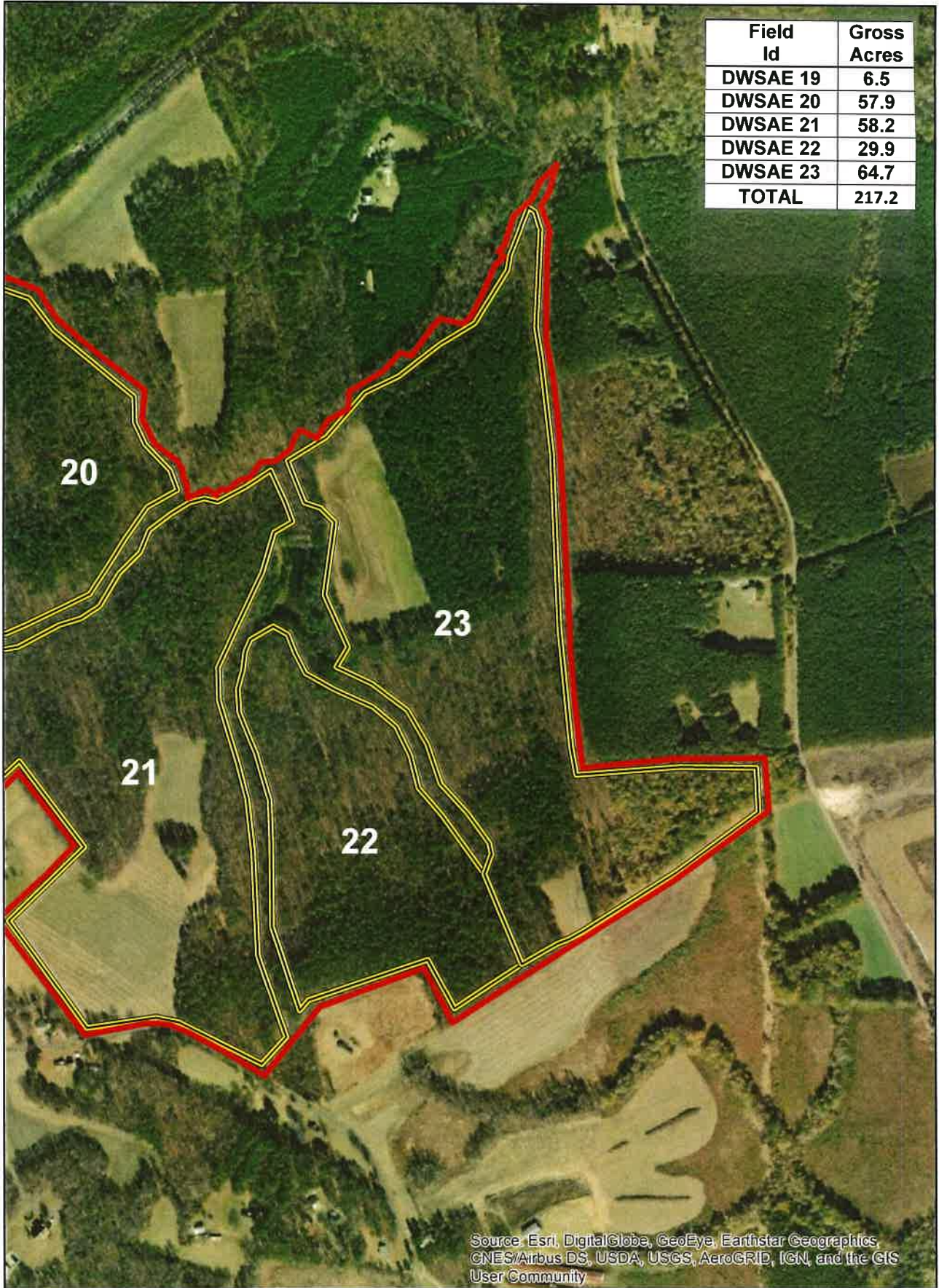
3-2-23

Aerial Map

1 in = 660 feet



Field Id	Gross Acres
DWSAE 19	6.5
DWSAE 20	57.9
DWSAE 21	58.2
DWSAE 22	29.9
DWSAE 23	64.7
<b>TOTAL</b>	<b>217.2</b>



20

23

21

22

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



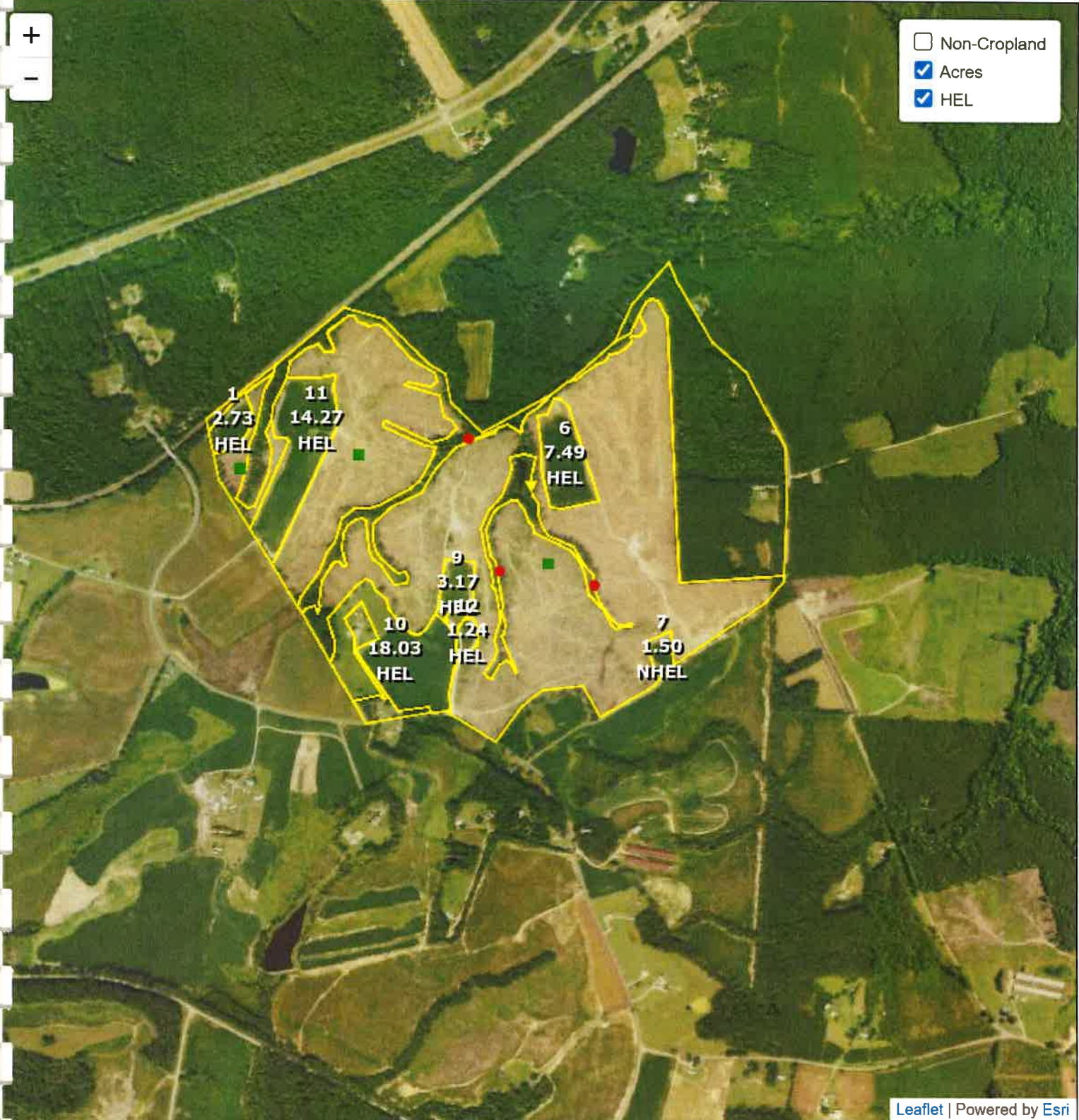
3-2-23

**Aerial Map**

1 in = 660 feet



- Non-Cropland
- Acres
- HEL



Leaflet | Powered by Esri

**Common Land Unit**  
 Cropland
  Non-cropland
  CRP

# 2023 Crop Year

**Farm 4796**  
**Tract 6515**















- Wetland Determination Identifiers**
- Restricted Use
  - ▼ Limited Restrictions
  - Exempt from Conservation Compliance Provisions



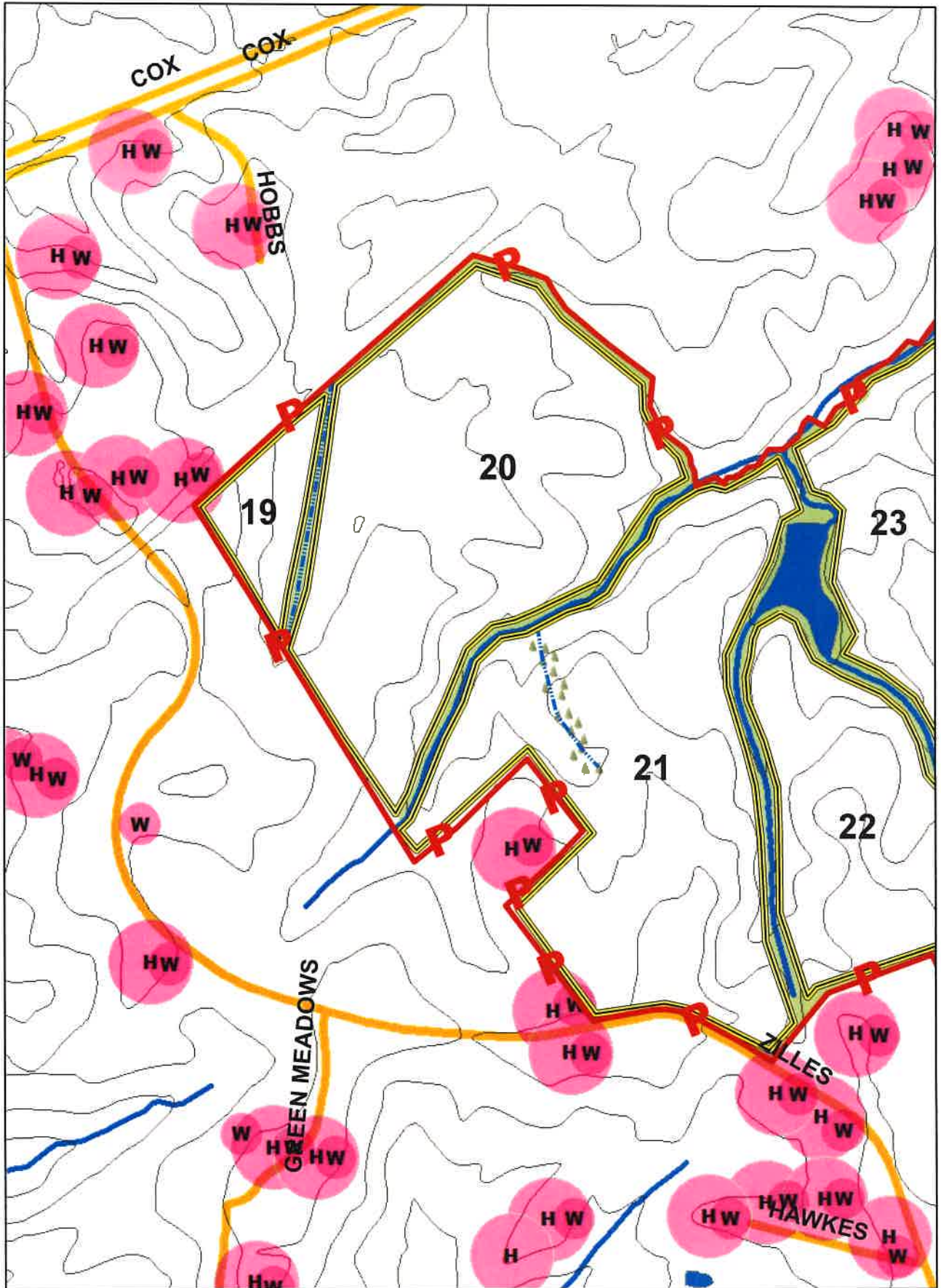
Tract 1 of 1

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# 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.

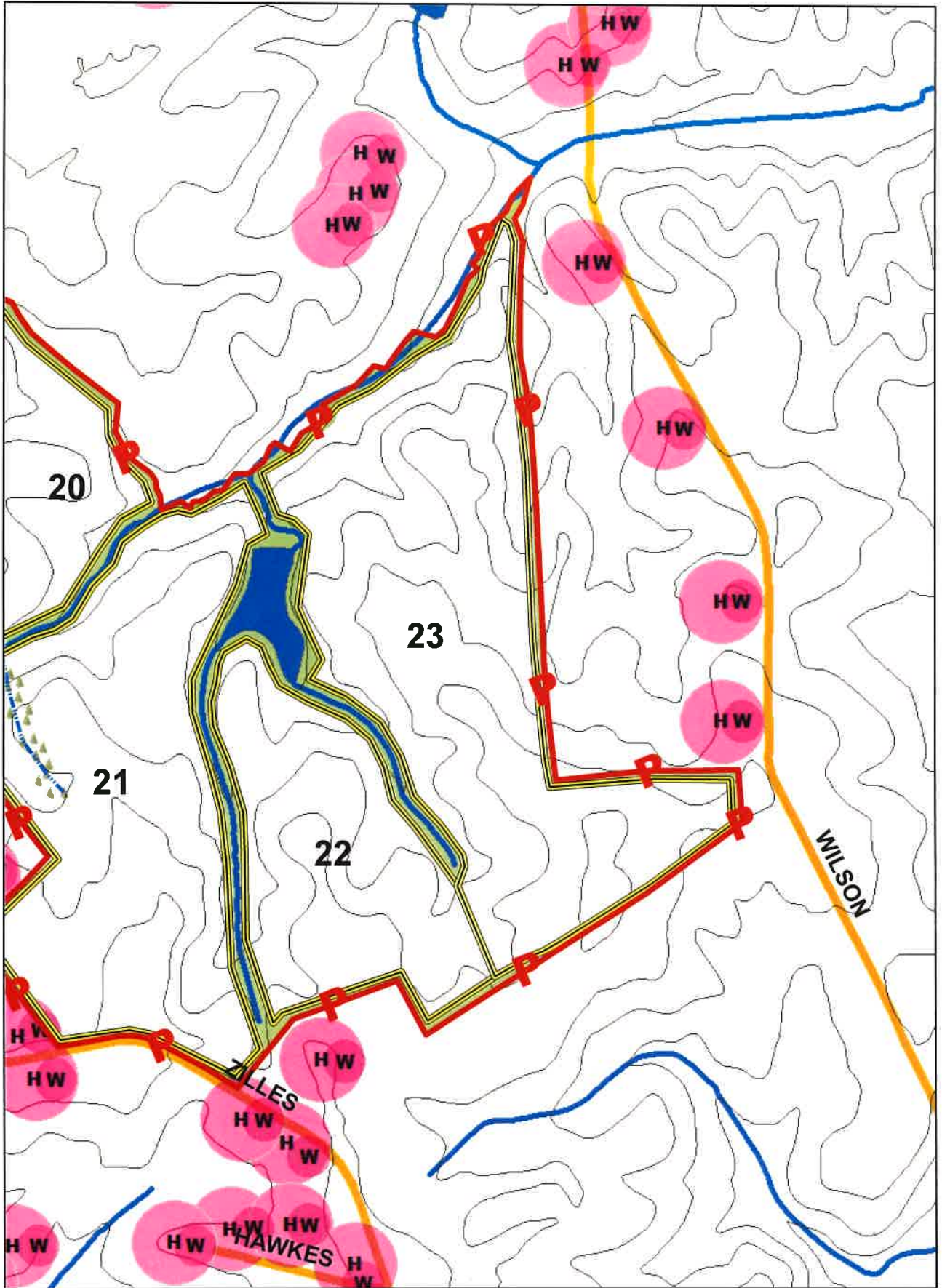


3-2-23

Site Map

1 in = 660 feet

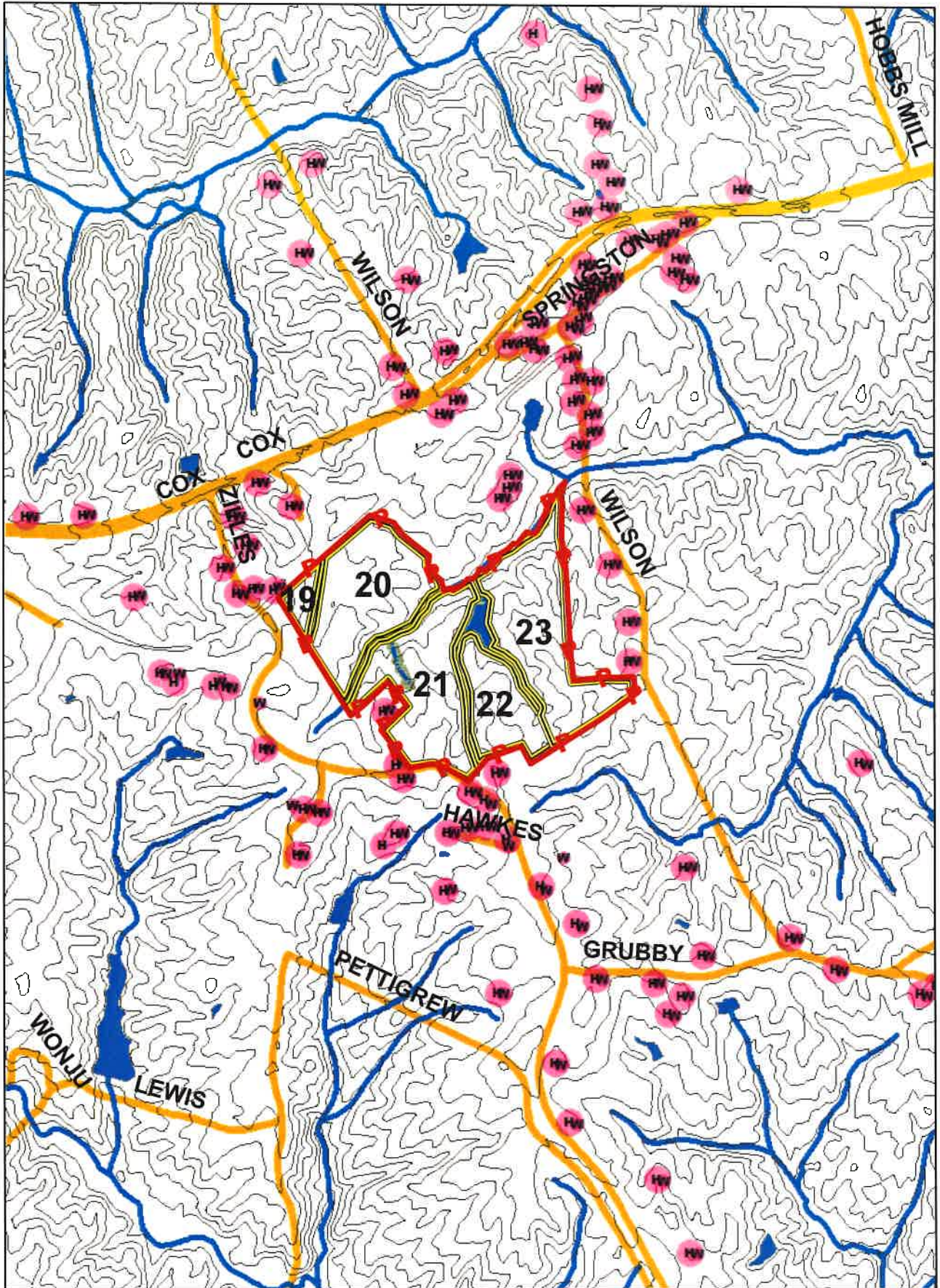




3-2-23

Site Map

1 in = 660 feet



3-2-23

Topographic Map

1 in = 2,000 feet