

**LAND APPLICATION SITE**

**MIKE A. GUNN**

**DWMAG 1 - 4**

**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 4-19-23 between Dixie Land Corporation 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
<u>65-2-4</u>			
<u>65-2-5</u>			
<u>65-2-6</u>			

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 <u>Dixie Land Corporation</u>	Mailing Address <u>4020 Whitmore Rd. McKenney, VA 23072</u>	Landowner Signature 
By: <u>Mike A. Gunn</u>	Phone No. <u>804-691-8700</u>	
Title* <u>President/owner</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: Dixie Land Corporation

**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

4-19-23  
Date

  
Operator's Signature

4020 Whitmore Rd.  
McKenney, VA 23872  
804-691-8700  
mailing address & phone

4-19-23  
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 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: Mike A. Gunn

County or City: Dinwiddie County

Please Print

Signature not required on this page

<b>Tax Parcel ID(s)</b>	<b>Landowner(s)</b>
65-2-4	Dixie Land Corporation
65-2-5	Dixie Land Corporation
65-2-6	Dixie Land Corporation



**NEW FIELD CHANGES**

**MIKE A GUNN**

**DINWIDDIE COUNTY**

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**NEW FIELD 1 IS OLD FIELD 1.**

**NEW FIELD 2 IS PART OF OLD FIELD 2.**

**NEW FIELD 3 IS PART OF OLD FIELD 2.**

**NEW FIELD 4 IS PART OF OLD FIELD 2.**

# 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				
DWMAG 01	15.2	-	-	-	-	CU 11	65-2-4 65-2-6	6159	6, 4
DWMAG 02	16.8	-	-	-	-	CU 11	65-2-4	6159	4
DWMAG 03N	3.4	-	-	-	-	CU 11	65-2-5 65-2-6	6159	5
DWMAG 04	6.4	-	-	-	-	CU 11	65-2-5	6159	3
TOTAL ACRES IN SITE	41.8								

\*\* Field ID is abbreviated throughout book. \*\*

## NUTRIENT MANAGEMENT PLAN IDENTIFICATION

### Operator

Mike A. Gunn  
4020 Whitmore Road  
McKenney, VA 23872  
804-691-8700

**Integrator:**None

### Farm Coordinates

Easting: 0, Northing: 0, zone: 17

### Watershed Summary

watershed: CU11  
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: 41.8

Cropland: 32.  
Hayland: 9.8  
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 4/20/2023  
Valid until 4/20/2025

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



**Nutrient Management Plan Balance Sheet**  
**(Spring, 2023-Summer, 2025)**  
**Mike A. Gunn**  
**Planner: John Doe (cert. No. 892)**

Tract: 6159      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
6, 4/DWMAG 1(N)	15/15	2023	Rye (grain)	70-60-60	0/0				70-60-60	N/A		
4/DWMAG 2(N)	17/17	2023	Corn (grain)	120-60-60	20/0				100-60-60	N/A		
5/DWMAG 3(N)	3/3	2023	Fescue grass hay mt.	90-80-170	0/0				90-80-170	N/A		
3/DWMAG 4(N)	6/6	2023	Fescue grass hay mt.	90-80-170	0/0				90-80-170	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
6159	DWMAG 1	15	[No Test]						
6159	DWMAG 2	17	[No Test]						
6159	DWMAG 3	3	[No Test]						
6159	DWMAG 4	6	[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>
6159	6159/6, 4	DWMAG 1	15	Appling	IVa	II	III	III	
	6159/4	DWMAG 2	17	Cecil	IVa	II	III	II	
	6159/5	DWMAG 3	3	Cecil	IVa	II	III	II	
	6159/3	DWMAG 4	6	Cecil	IVa	II	III	II	

### **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:** Mike A. Gunn

Location: Dinwiddie

Specialist: John Doe

N-based Acres: 41.8

P-based Acres: 0.0

**Tract Name:** 6159

FSA Number: 6159

Location: Dinwiddie

**Field Name:** DWMAG 1

Total Acres: 15.20 Usable Acres: 15.20

FSA Number: 6, 4

Tract: 6159

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
37	2B	Appling
19	2C	Appling
34	4B	Cecil

11            4C    Cecil

**Field Warnings:**

**Field Name:        DWMAG 2**

Total Acres:    16.80    Usable Acres:    16.80

FSA Number:    4

Tract:            6159

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
73	4B	Cecil
27	4C	Cecil

**Field Warnings:**

**Field Name:        DWMAG 3**

Total Acres:    3.40    Usable Acres:    3.40

FSA Number:    5

Tract:            6159

Location:        Dinwiddie

Slope Class:    B        Hydrologic Group:    B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

*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	4C	Cecil
88	4B	Cecil

**Field Warnings:**

**Field Name:** DWMAG 4

Total Acres: 6.40 Usable Acres: 6.40

FSA Number: 3

Tract: 6159

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

**Conservation Practices:**

Pasture (>75% cover)

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

**Soil Test Results:**

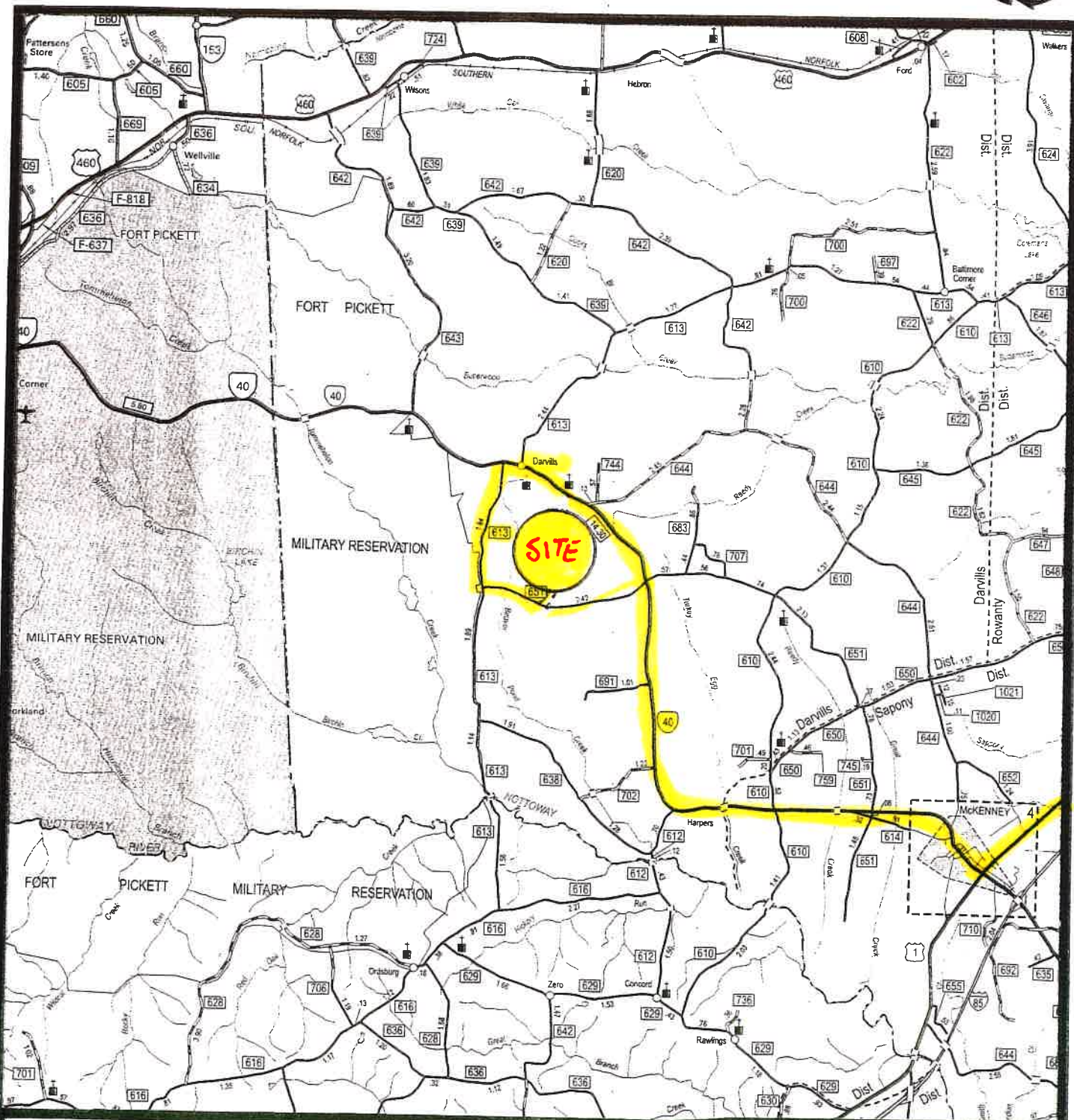


# MAPS



# Recyc Systems™ Inc.

(Biosolids Land Application)



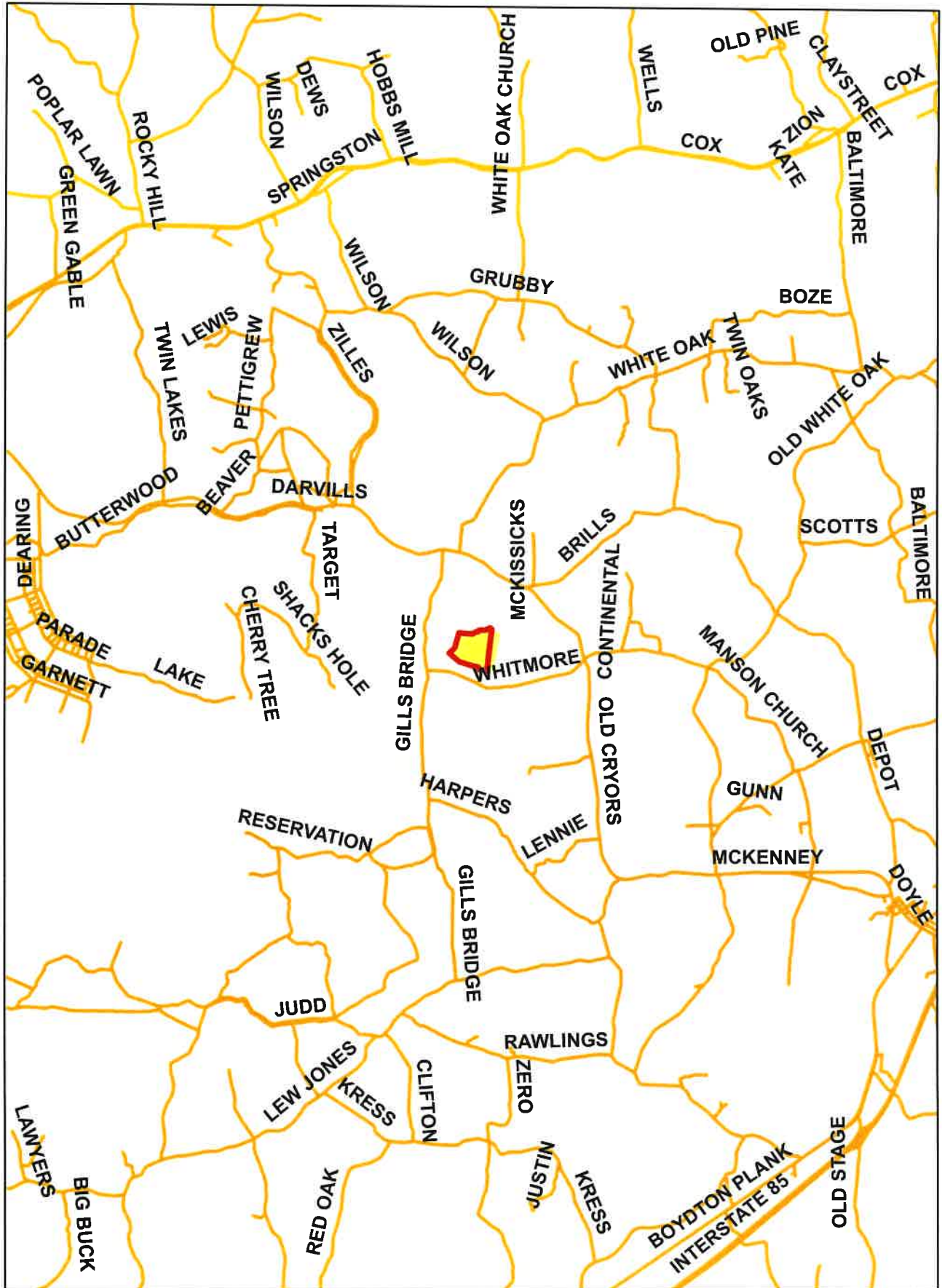
Scale: 1 inch = 2 miles *Track Base Yellow* DWMAG 1-4

4-20-23

VICINITY MAP



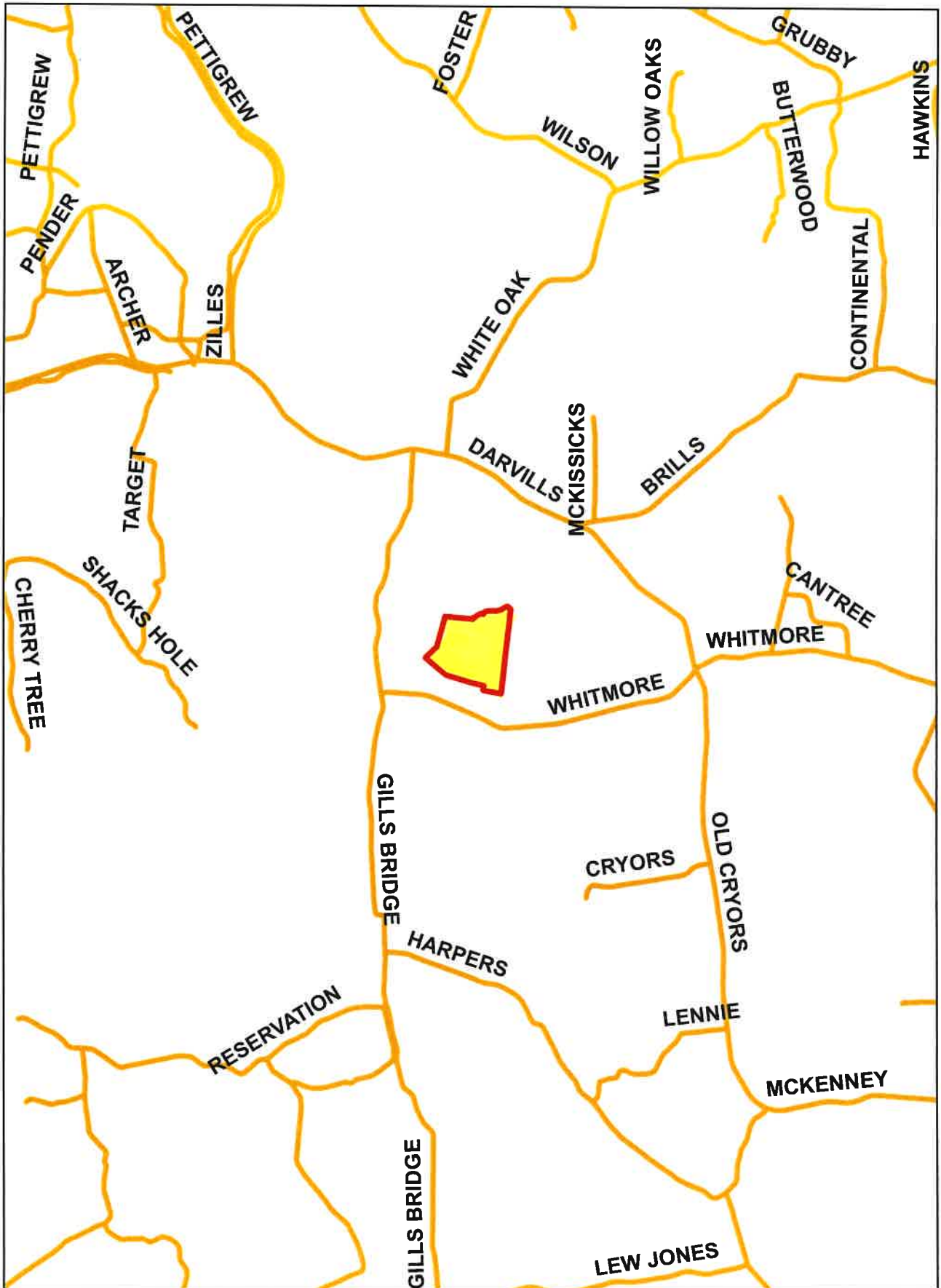




4-20-23

### Vicinity Map

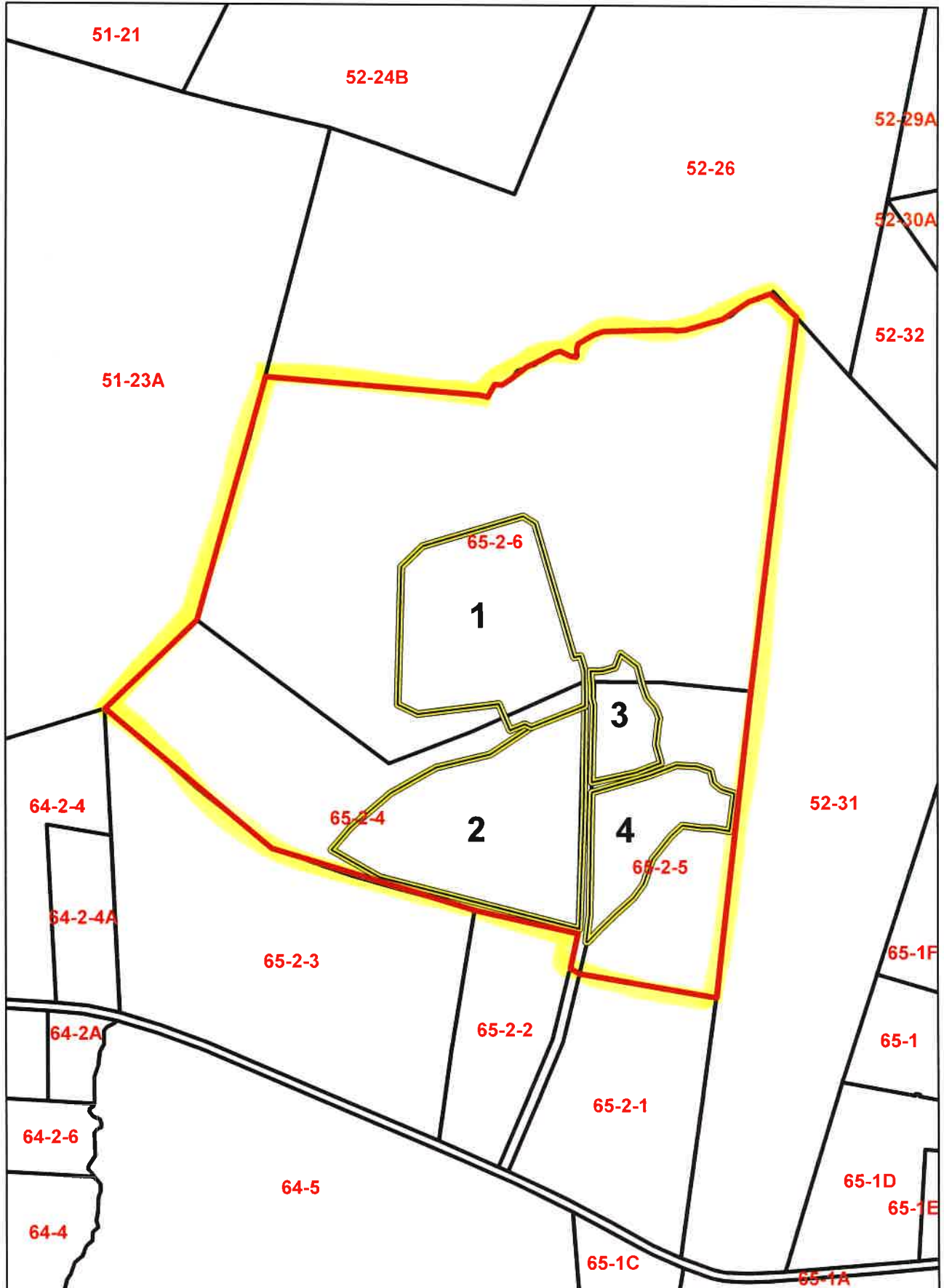
1 in = 2 miles



4-20-23

Vicinity Map

1 in = 1 miles



4-20-23

**Tax Map**

1 in = 660 feet

# ADJOINING LANDOWNERS

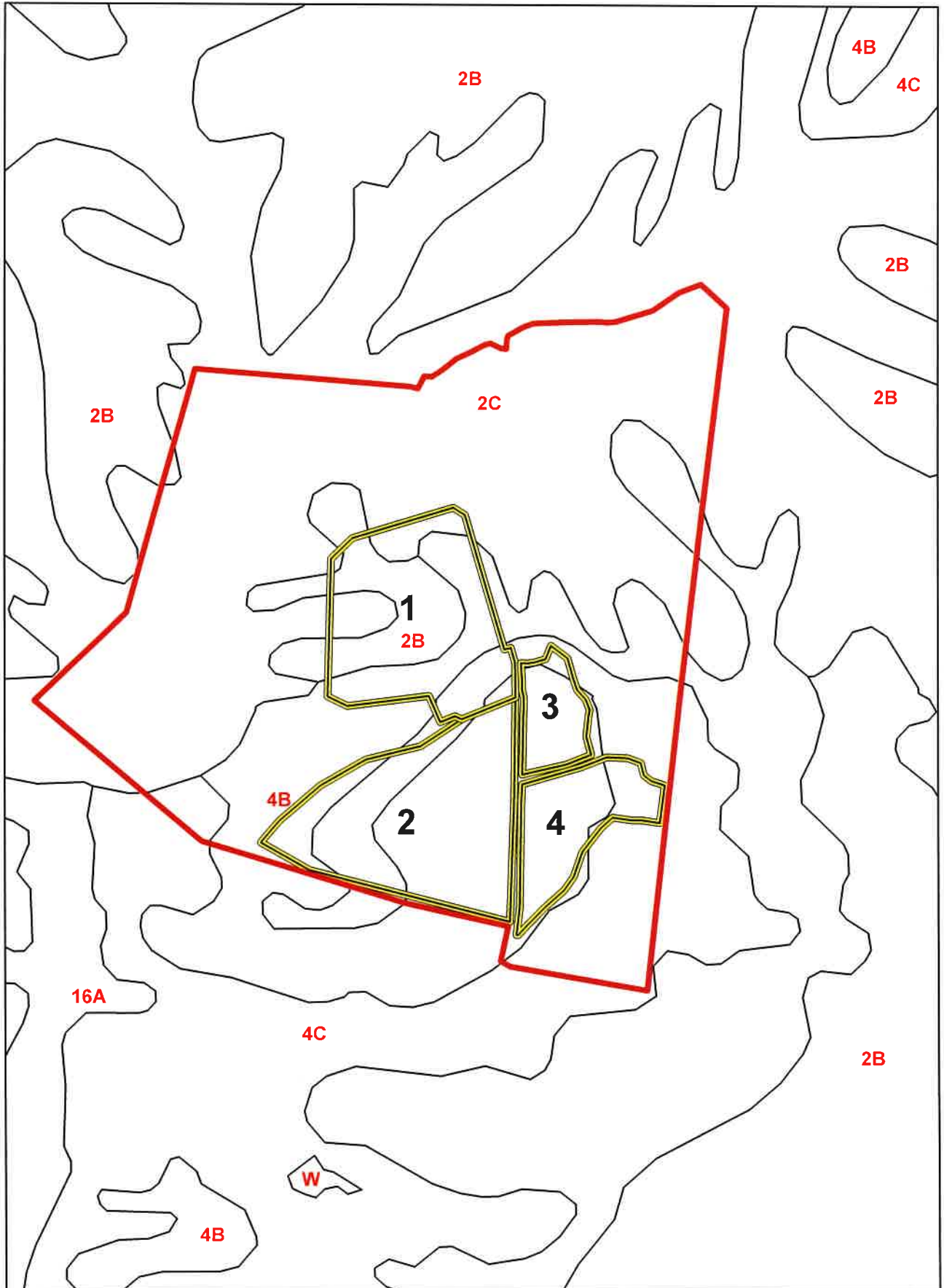
MIKE A. GUNN

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## DINWIDDIE COUNTY

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<b>Tax Map</b>	<b>Parcel #</b>	<b>Owner Name(s)</b>
64-2	4	Ward Burton Wildlife Foundation
65-2	1	Ward Burton Wildlife Foundation
	2	Paul D. and Nevina I. Johnson
	3	Ward Burton Wildlife Foundation
51	23A	Southside Ag Enterprises LLC
52	26	Willard Ray Graham II
	31	John W. Whitmore Sr. Revocable Trust, John W. S. Whitmore et. als. Trustees



4-20-23  
Frequently  
Flooded

**Soil Map**

1 in = 660 feet



**Farm 4200**  
**Tract 6159**

**2024 Program Year**  
 Map Created March 22, 2023

**Common Land Unit**  
 Non-Cropland  
 Cropland  
 rcl\_va053  
 Tract Boundary

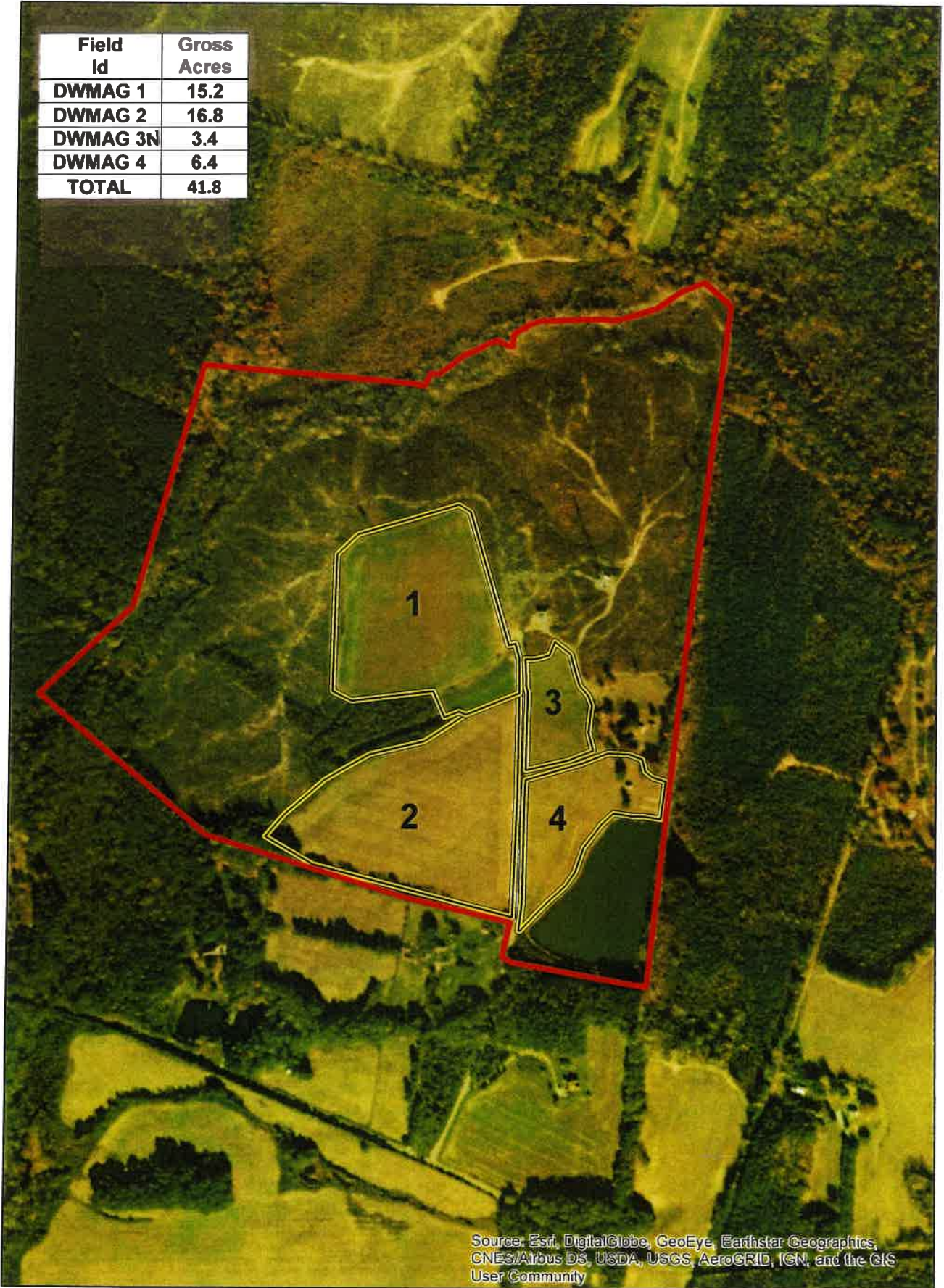
**Wetland Determination Identifiers**  
 Restricted Use  
 Limited Restrictions  
 Exempt from Conservation  
 Tract Compliance Part B 57.66 acres

United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS)





Field Id	Gross Acres
DWMAG 1	15.2
DWMAG 2	16.8
DWMAG 3N	3.4
DWMAG 4	6.4
TOTAL	41.8



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



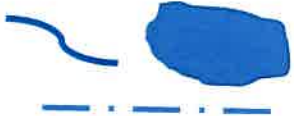











4-20-23

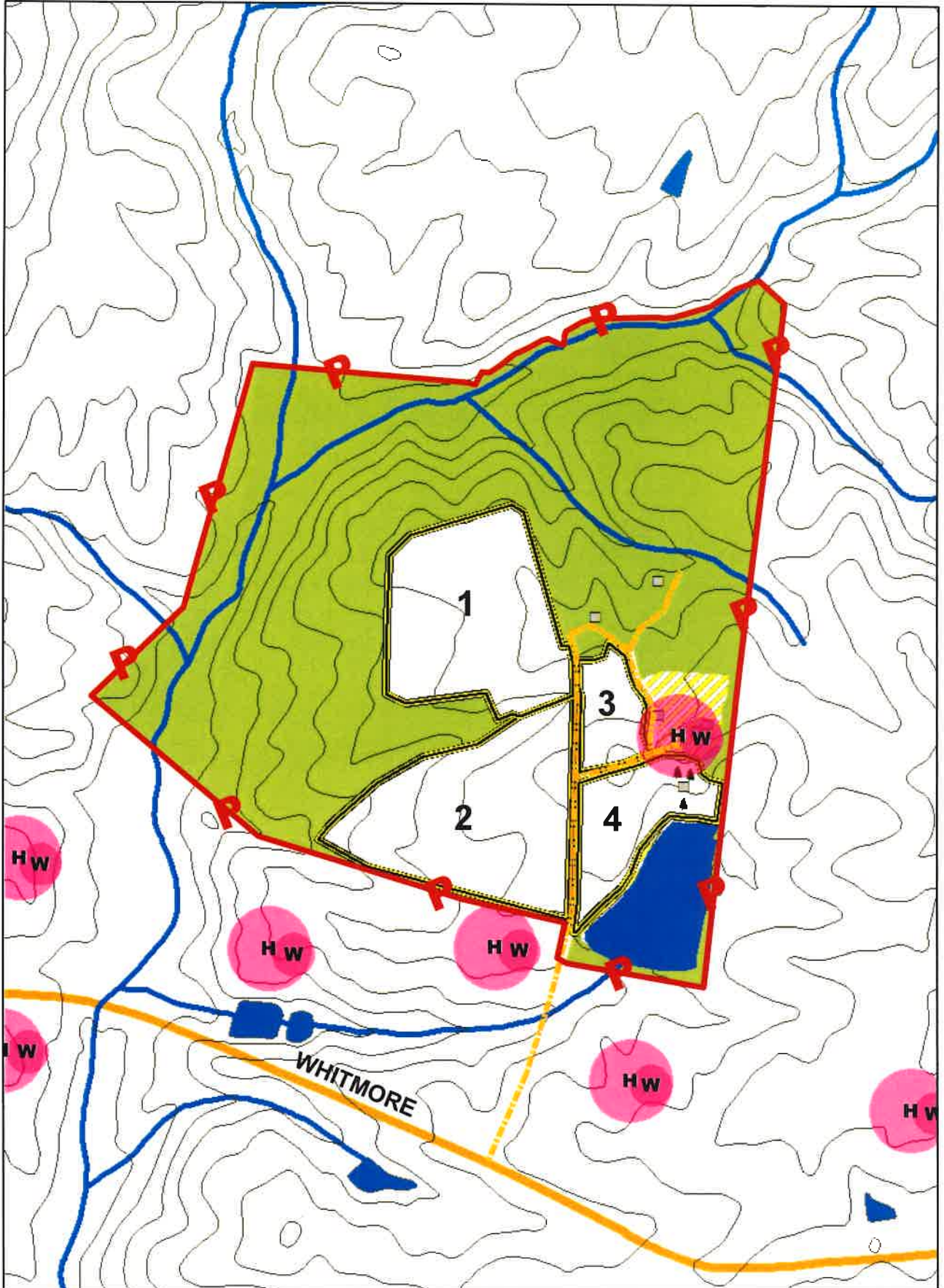
# Aerial Map

1 in = 660 feet

# 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

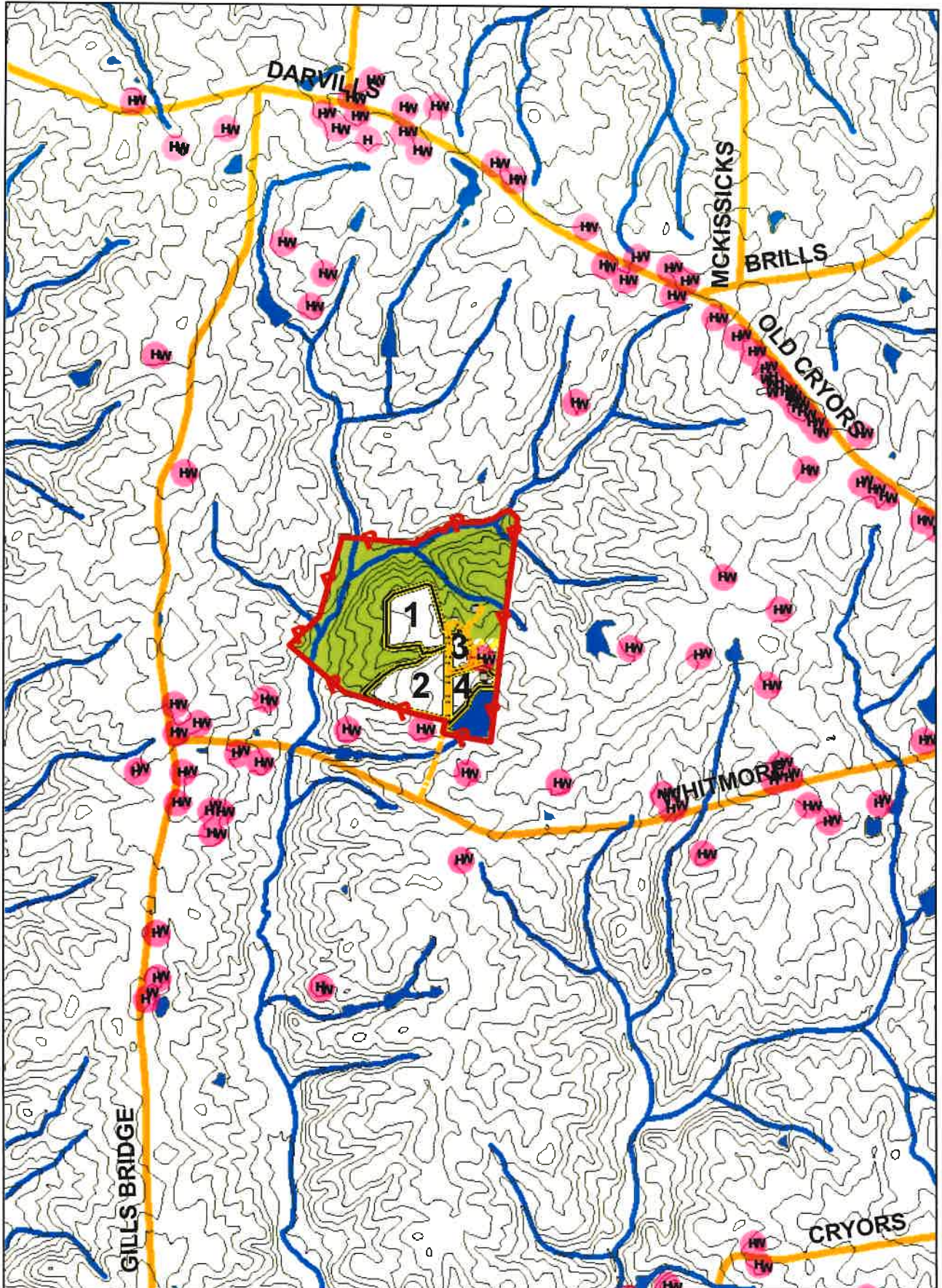
\*Buffer can be reduced or waived upon written consent from landowner.



4-20-23

Site Map

1 in = 660 feet



4-20-23

Topographic Map

1 in = 2,000 feet