

LAND APPLICATION SITE

B. A. TIGNOR JR.

KQBAT 1 – 2

KING & QUEEN 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 8-18-2014 between B.A. Tignor Jr. 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 King & Queen Co, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>
<u>Tax Map 1632-76-Parcel</u>	<u>955A</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			
<u>B.A. TIGNOR, JR.</u>			<u>31398 Sparta Road</u>
<u>Landowner - Printed Name, Title</u>			<u>Milford, Va. 22514</u>
<u>B.A. Tignor Jr.</u>			<u>804 633 9008</u>
<u>Signature</u>			<u>Mailing Address & Phone Number</u>

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.

I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

<u>[Signature]</u>	<u>PO Box 562 Remington, Virginia 22734</u>
<u>Permittee - Authorized Representative</u>	<u>Mailing Address</u>
<u>Printed Name</u>	

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

Permittee: Recyc Systems, Inc

County or City: King & Queen Co.

Landowner: B.A. Tignor, Jr.

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).

B.A. Tignor, Jr.
Landowner's Signature

8-18-2014
Date

B.A. Tignor, Jr.
Farm Operator Signature

Mailing Address & Phone Number

**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 8-27-2014 between Brenda C. Tignor 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 King & Queen Co Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>
<u>Tax Map 1632-7L-Parcel 955A</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:

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<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			

Brenda C. Tignor
Landowner - Printed Name, Title

Brenda C. Tignor
Signature

31398 Sparta Road
Milford, Va. 22514
Mailing Address & Phone Number
804 633 9008

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.

I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

[Signature]
Permittee - Authorized Representative
Printed Name

Signature

PO Box 562 Remington, Virginia 22734
Mailing Address

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

Permittee: Recyc Systems, Inc

County or City: King & Queen Co.

Landowner: Brenda C. Tignor

Landowner Site Management Requirements:

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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).

Brenda C. Tignor
Landowner's Signature

8/27/14
Date

Farm Operator Signature

Mailing Address & Phone Number

FARM DATA SHEET

SITE NAME:	B. A. Tignor, Jr.	COUNTY:	King & Queen
OWNER:	B. A. Tignor, Jr. and Brenda C. Tignor	OPERATOR:	B. A. Tignor, Jr.
OWNER'S ADDRESS:	31398 Sparta Road Milford, VA 22514	OPERATOR'S ADDRESS:	31398 Sparta Road Milford, VA 22514
OWNER'S TELEPHONE:	804-633-9008	OPERATOR'S TELEPHONE:	804-633-9008
GENERAL FARM TYPE:	Row Crops	CELL PHONE:	804-512-8992
# CATTLE:	None	EMAIL:	-
LAGOON or SLURRY:	N/A	LATITUDE:	37.952
TOPO QUAD:	Cauthornville	LONGITUDE:	- 77.108
COMMENTS:		METHOD OF DETERMINATION:	Online Maps
Field #1 is part of old Field #1			
Field #2 is old Fields # 2 and 3, and a part of old Field #1.			

SD 
7-30-18

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	DEQ Control ID	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
			Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood			
KQBAT 1	51097-00129-0000	3.0	5D Nov.-Apr.	-	-	-	YO 52	32-7L-955A	T 3080 F None
KQBAT 2	51097-00129-0000 51097-00127-0000 51097-00128-0000	24.1	5D Nov.-Apr. 15B Nov.-Apr.	-	-	-	YO 52	32-7L-955A	T 3080 F 1, 2
TOTAL ACRES IN SITE		27.1							

7-30-18

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: B. A. Tignor, Jr.

County or City: King & Queen

Please Print

Signature not required on this page

<u>Tax Parcel ID(s)</u>	<u>Landowners (s)</u>
32-7L-955A	B. A. Tignor, Jr. and Brenda C. Tignor

Report Number: 14-338-0540

Account Number: 70594



www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
B A TIGNOR/KQBAT
KING AND QUEEN CO

Submitted By: SD
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 12/04/2014

Date Of Analysis: 12/05/2014

Date Of Report: 12/05/2014

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Reserve Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g		
1 KQBAT	04821	1.7	L	78	58	H		99	H	67	M	562	M				5.8	6.84	0.9	4.5
2 KQBAT	04822	1.9	L	83	61	H		93	H	56	M	498	M				6.1	6.88	0.5	3.7

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm Rate	S ppm Rate	Zn ppm Rate	Mn ppm Rate	Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate	Cl ppm Rate	Al ppm
1 KQBAT	5.6	12.4	62.4		18.9										
2 KQBAT	6.4	12.6	67.3		13.7										

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGroary*

Paucic McGroary

THE PLANNER IS NOT STATE CERTIFIED

**Nutrient Management Plan Balance Sheet
(Fall, 2018-Winter, 2020)**

**B. A. Tignor, Jr.
Planner: John Doe**

Tract: 3080 Location: King & Queen
(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
None/KQBAT 1(N)	3/3	2018 2019	Wheat (grain)	100-40-60 -- --	0/0				100-40-60	N/A		
1, 2/KQBAT 2(N)	24/24	2018 2019	Wheat (grain) Soybeans (DC)	100-40-60 -- -- 0-40-60	20/0 0/0				80-40-60 0-80-120	N/A 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
3080	KQBAT 1	3	2014-Wi	H- (58 P ppm)	M (99 K ppm)	A&L MIII	5.8		
3080	KQBAT 2	24	2014-Wi	H- (61 P ppm)	M (93 K ppm)	A&L MIII	6.1		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
3080	3080/Non e	KQBAT 1	3	Emporia	IIIb	II	III	II	
	3080/1, 2	KQBAT 2	24	Emporia	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, 2018 - Winter, 2020

Farm Name: B. A. Tignor, Jr.

Location: King & Queen

Specialist: John Doe

N-based Acres: 27.1

P-based Acres: 0.0

Tract Name: 3080

FSA Number: 3080

Location: King & Queen

Field Name: KQBAT 1

Total Acres: 3.00 Usable Acres: 3.00

FSA Number: None

Tract: 3080

Location: King & Queen

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
Wi-2014	5.8	H-(58 P ppm)	M(99 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
76	4B	Emporia
24	5D	Emporia Slagle

Field Warnings:

Field Name: KQBAT 2

Total Acres: 24.10 Usable Acres: 24.10

FSA Number: 1, 2

Tract: 3080

Location: King & Queen

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
Wi-2014	6.1	H-(61 P ppm)	M(93 K ppm)	A&L MIII	

Soils:

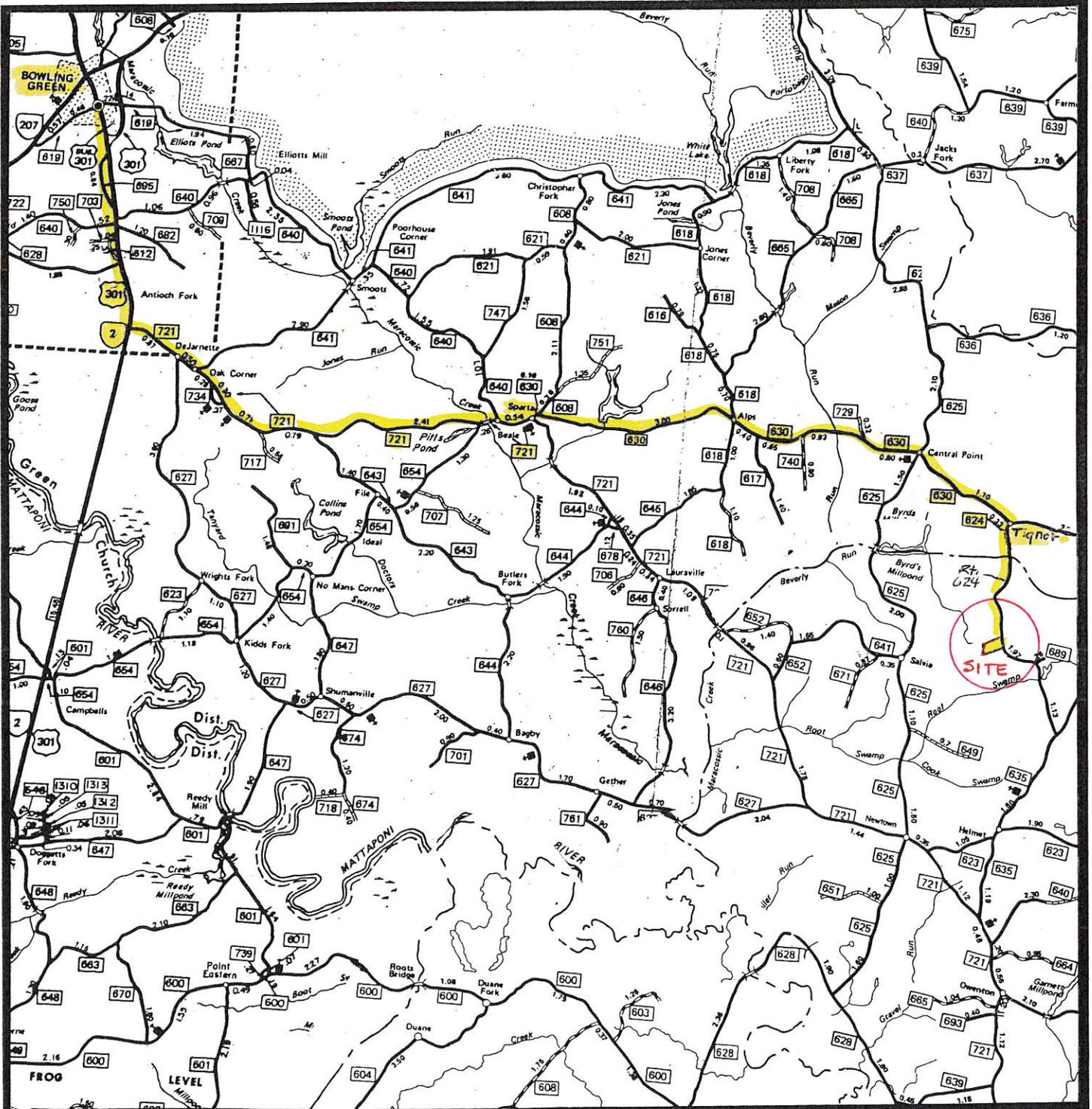
PERCENT	SYMBOL	SOIL SERIES
22	4A	Emporia
52	4B	Emporia
15	4C	Emporia
9	5D	Emporia Slagle
1	15B	Slagle

Field Warnings:

MAPS

Recyc SystemsTM Inc.

(Biosolids Land Application)



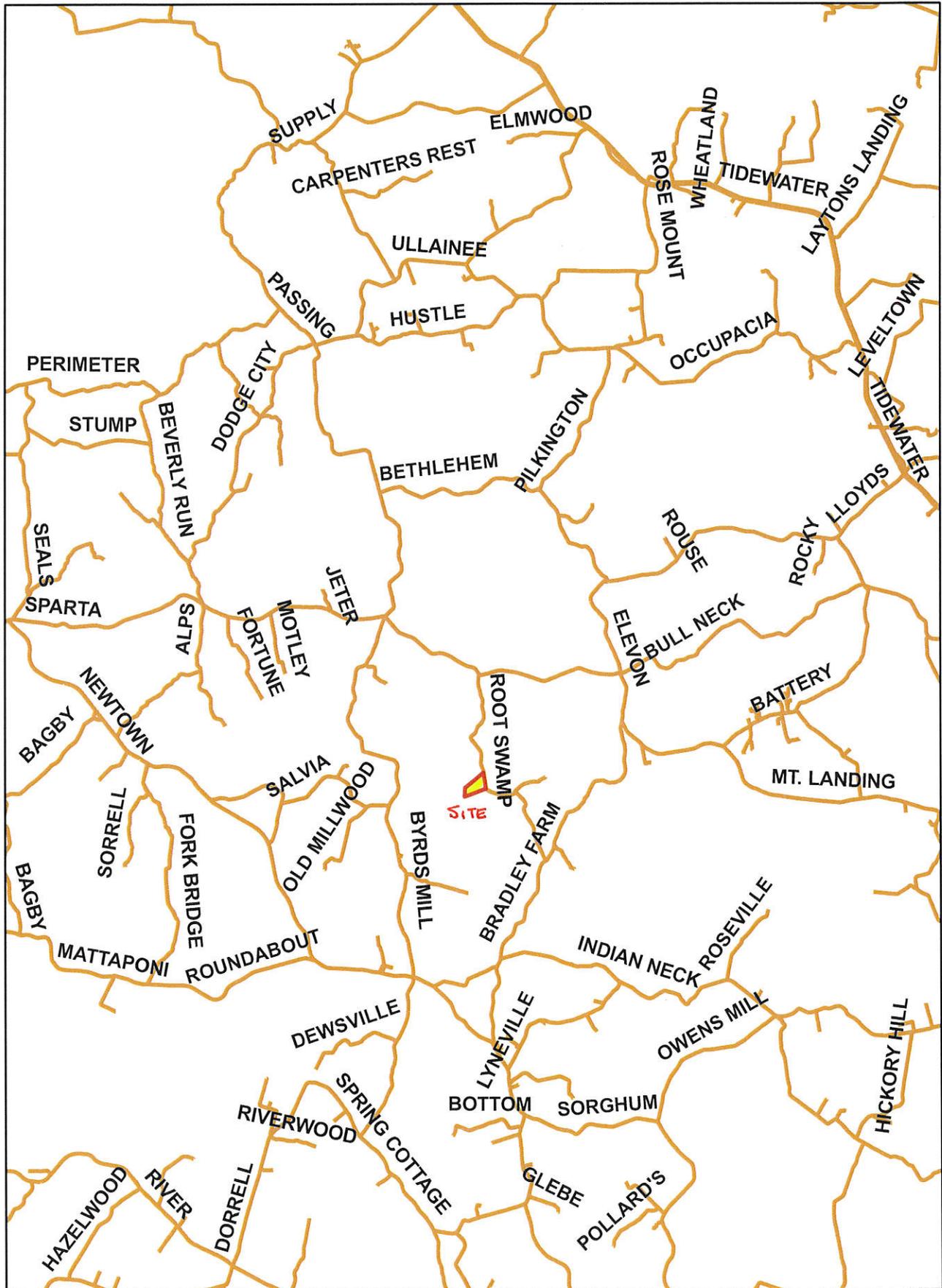
Scale: 1" = 2 miles

KQBAT 1-2

7-30-18

VICINITY MAP



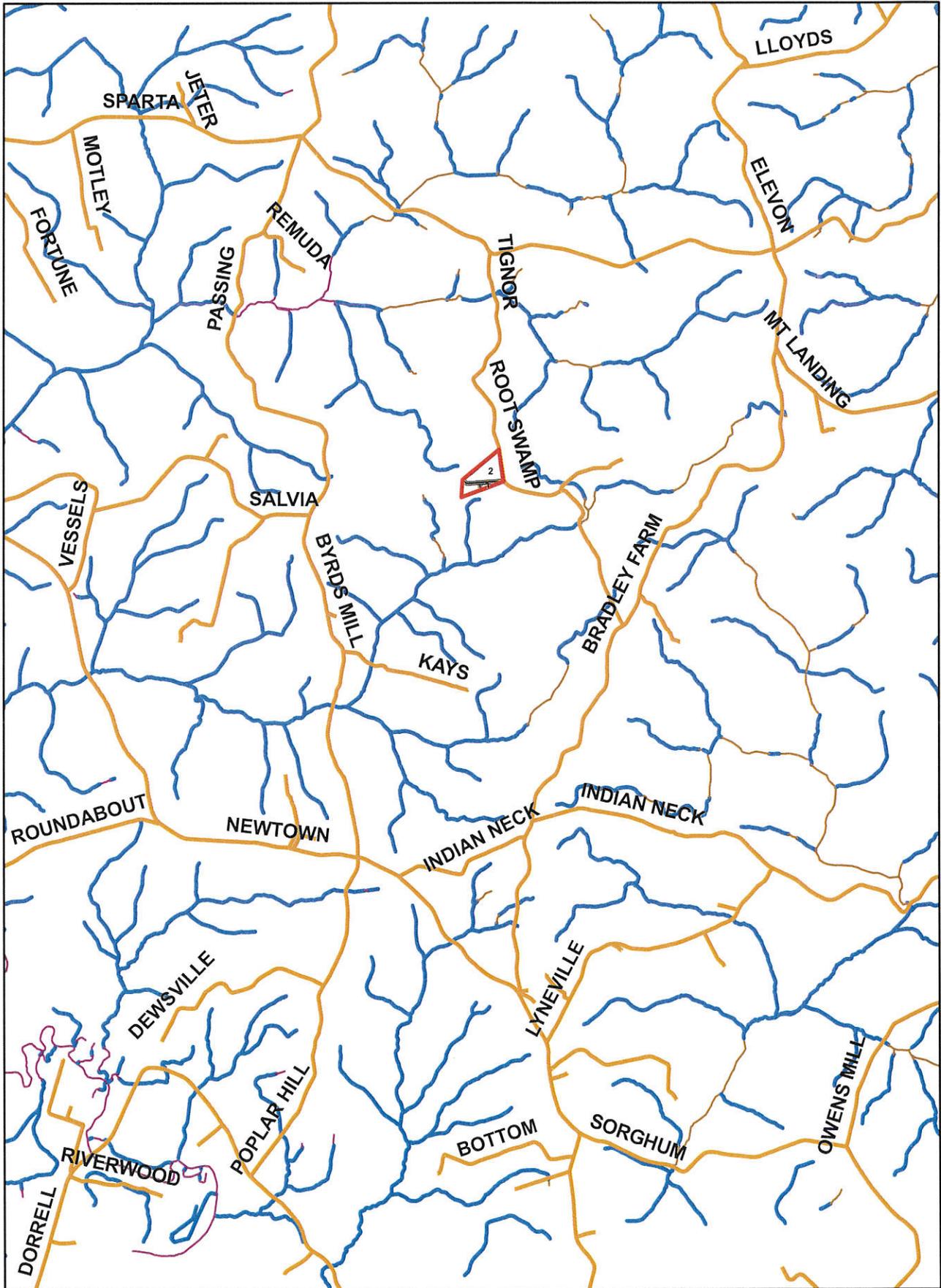


7-30-18

VICINITY MAP

1 in = 2 miles



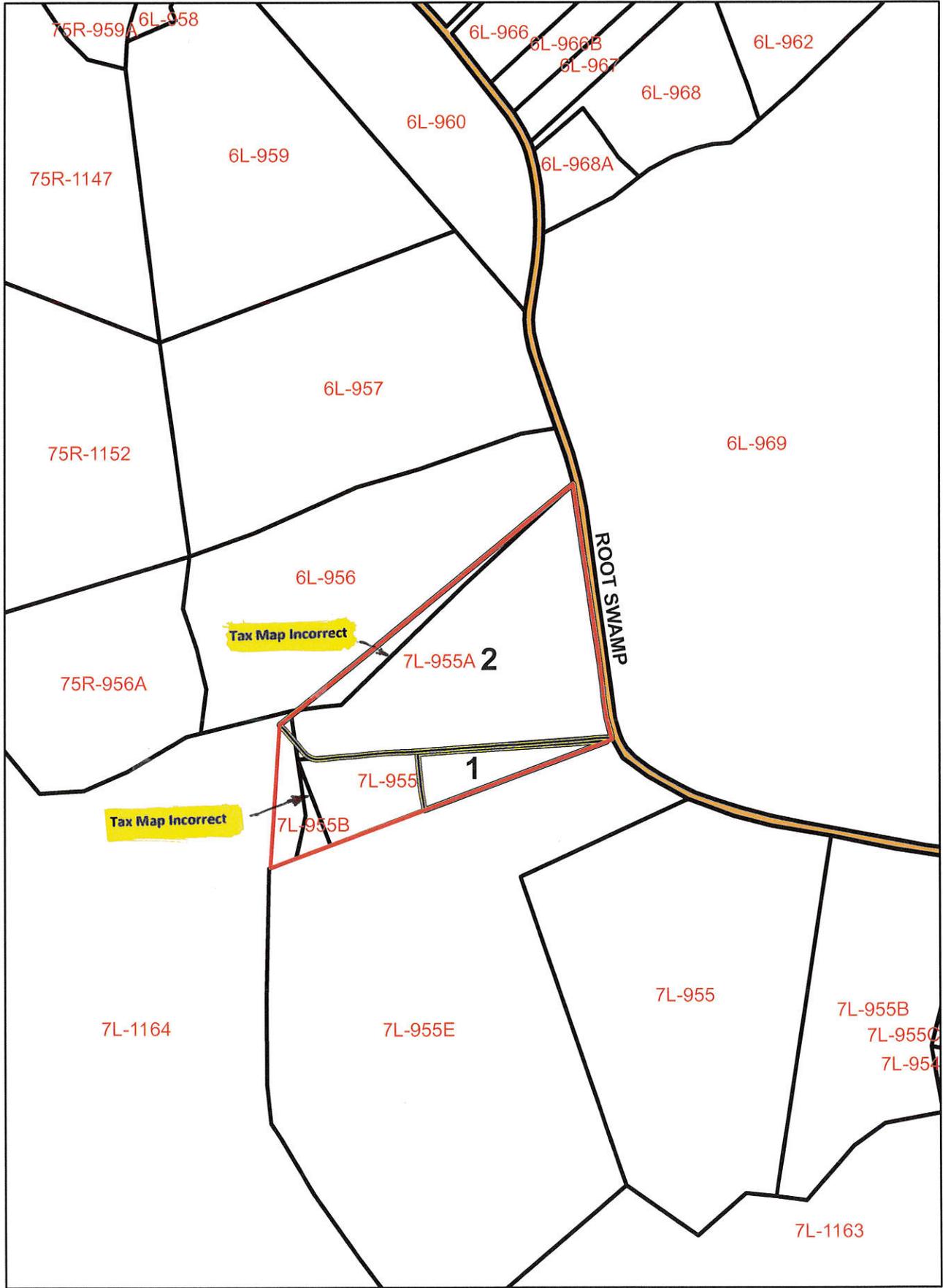


7-30-18

VICINITY MAP

1 in = 1 miles





7-30-18

TAX MAP

1 in = 660 feet



PB 17/97

Boundary Survey Plat

Boundary Survey of
Ronald W. & Margot B. Tignor



1995

Clairene Tignor
TM # 178-13R-956

1.34'
RS.
AXI
A=86.53

1812.06

N 62-08-01 E

Poplar @
Head of
Wagon Rd.

2

504.00-93W 1063.30'

Rt 624

Rte 624

Root Swamp
Road
40' WIDE

Parcel - 1

ZONED A/LDR

Farm Rd.

RS by
old Pipe

Poplar

W.O.

Holly

W.O.

N 12-51-07 E

664.76'

John B.
Deaton

TM # 178-13R-1164

P.N.
Set

4.69

A=91.62

Rod by
FP

1700.47

581-18-16 W

Cleveland Schools

TM 178-13R-955

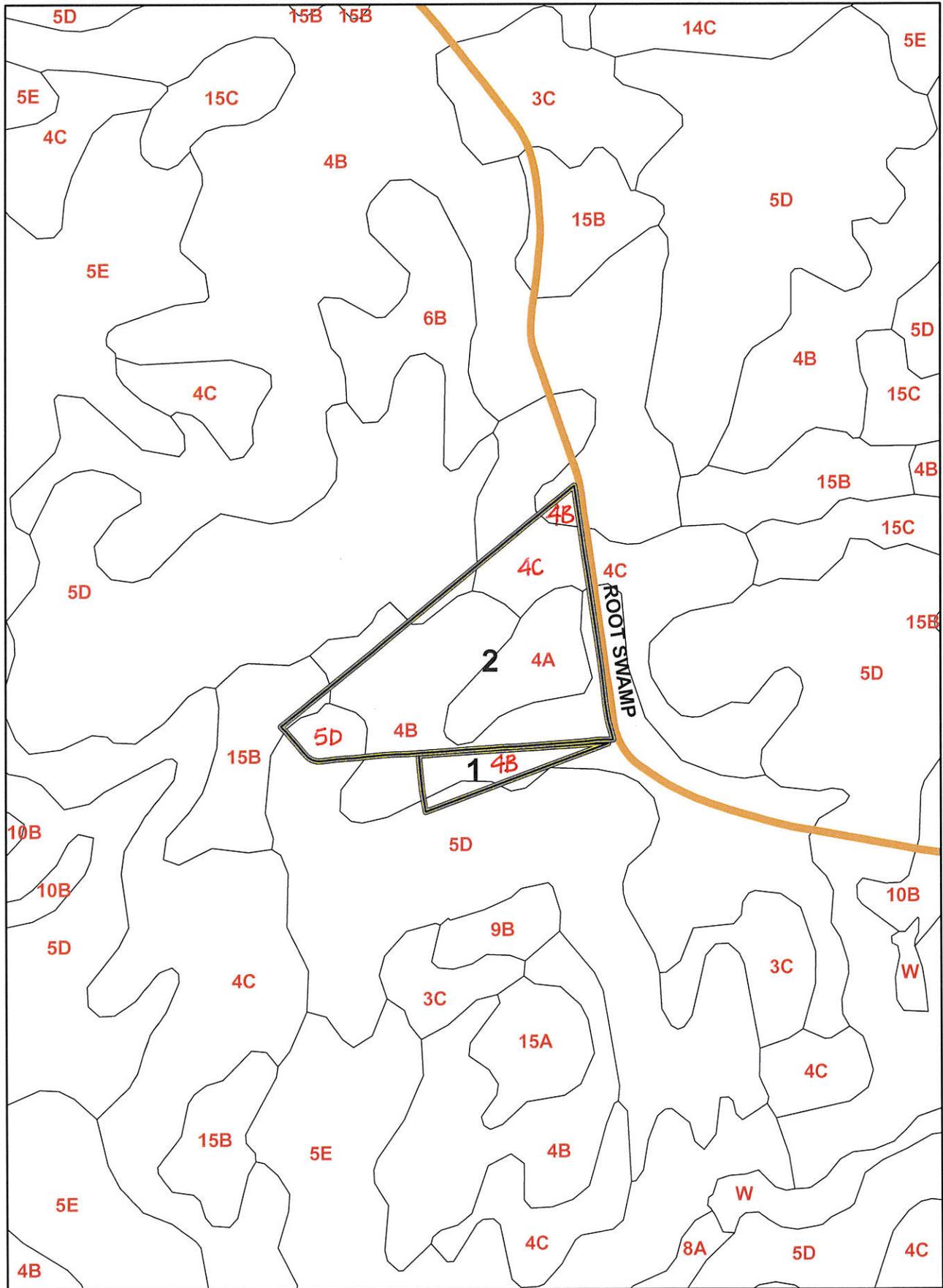
7-30-18

ADJOINING LANDOWNERS

B. A. TIGNOR, JR.

KING & QUEEN COUNTY

Tax Map Parcel #	Owner Name(s)
32-6L-956	Clarence W. and Elsie A. Tignor
32-6L-969	Leo N. Fauteux
32-7L-955E	Hans and Deborah Dietrich
32-7L-955	Erich W. and Jennifer L. Dietrich
32-7L-1164	Briar Hill Holdings LLC

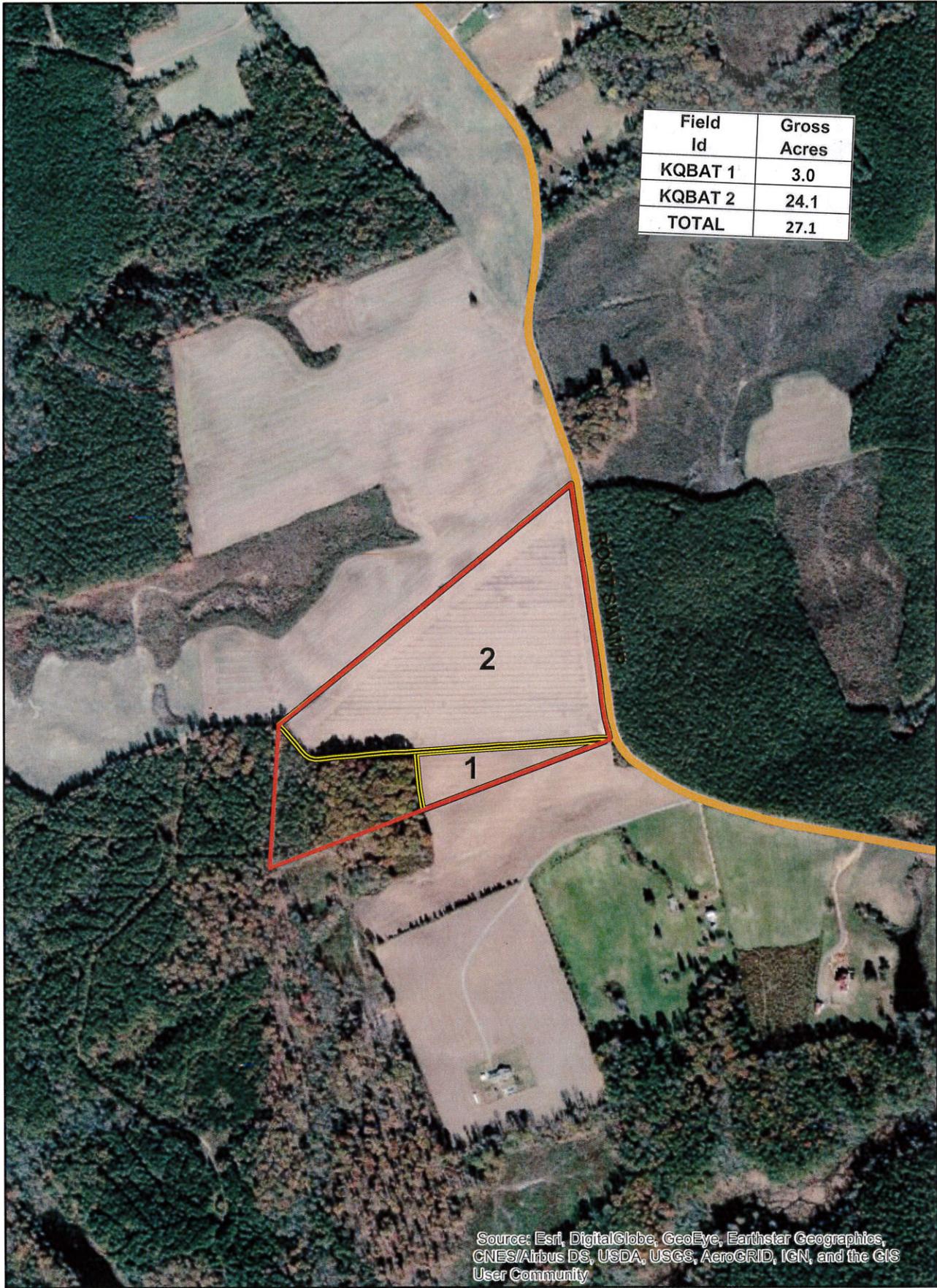


7-30-18

 Frequent Flooded

SOIL MAP

1 in = 660 feet



Field Id	Gross Acres
KQBAT 1	3.0
KQBAT 2	24.1
TOTAL	27.1

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

7-30-18

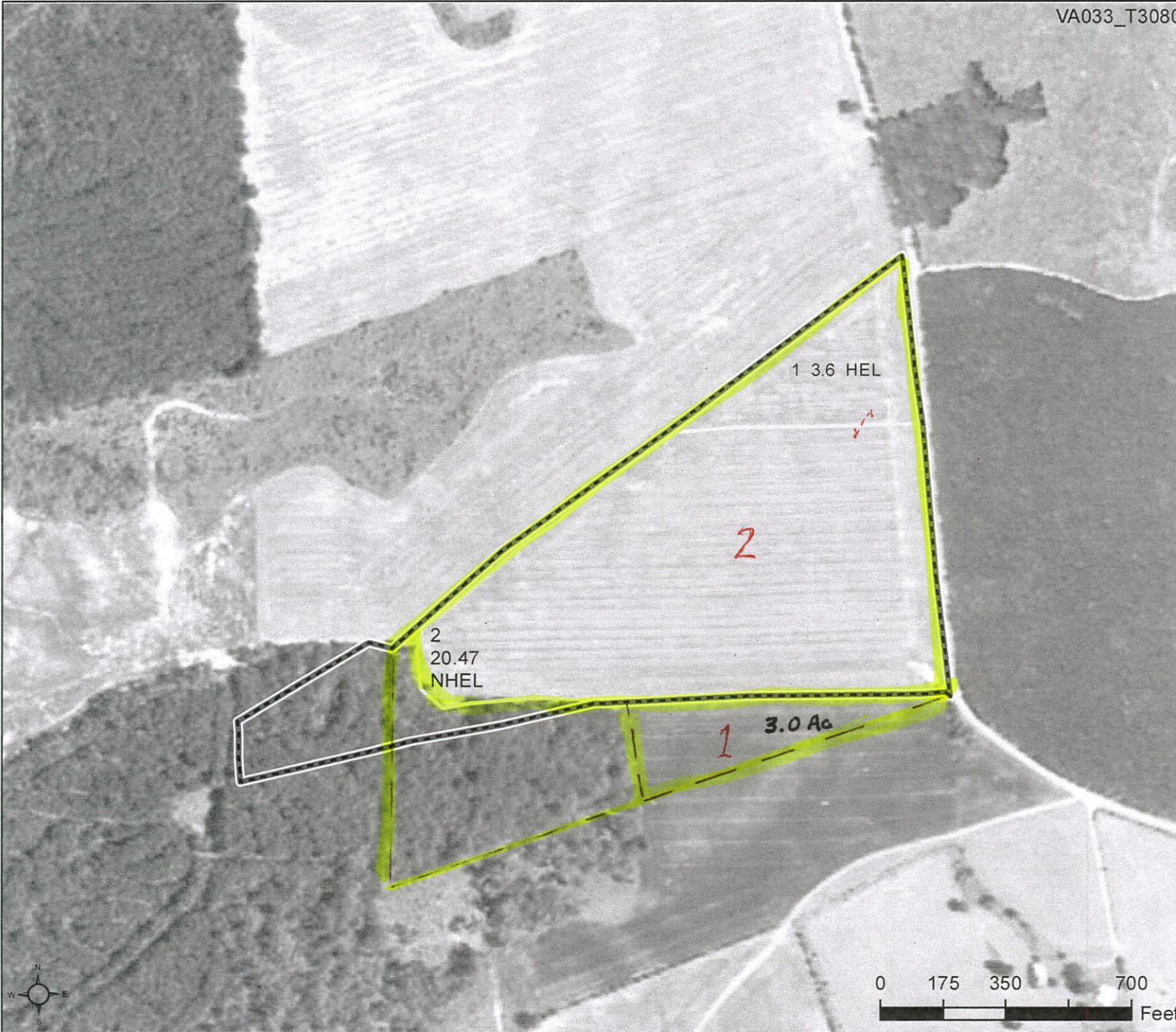


AERIAL MAP

1 in = 660 feet

VA033_T3080

Farm 3083
Tract 3080



2018 Program Year

Map Created April 19, 2018

Common Land Unit

-  Common Land Unit
-  Tract Boundary

Wetland Determination Identifiers

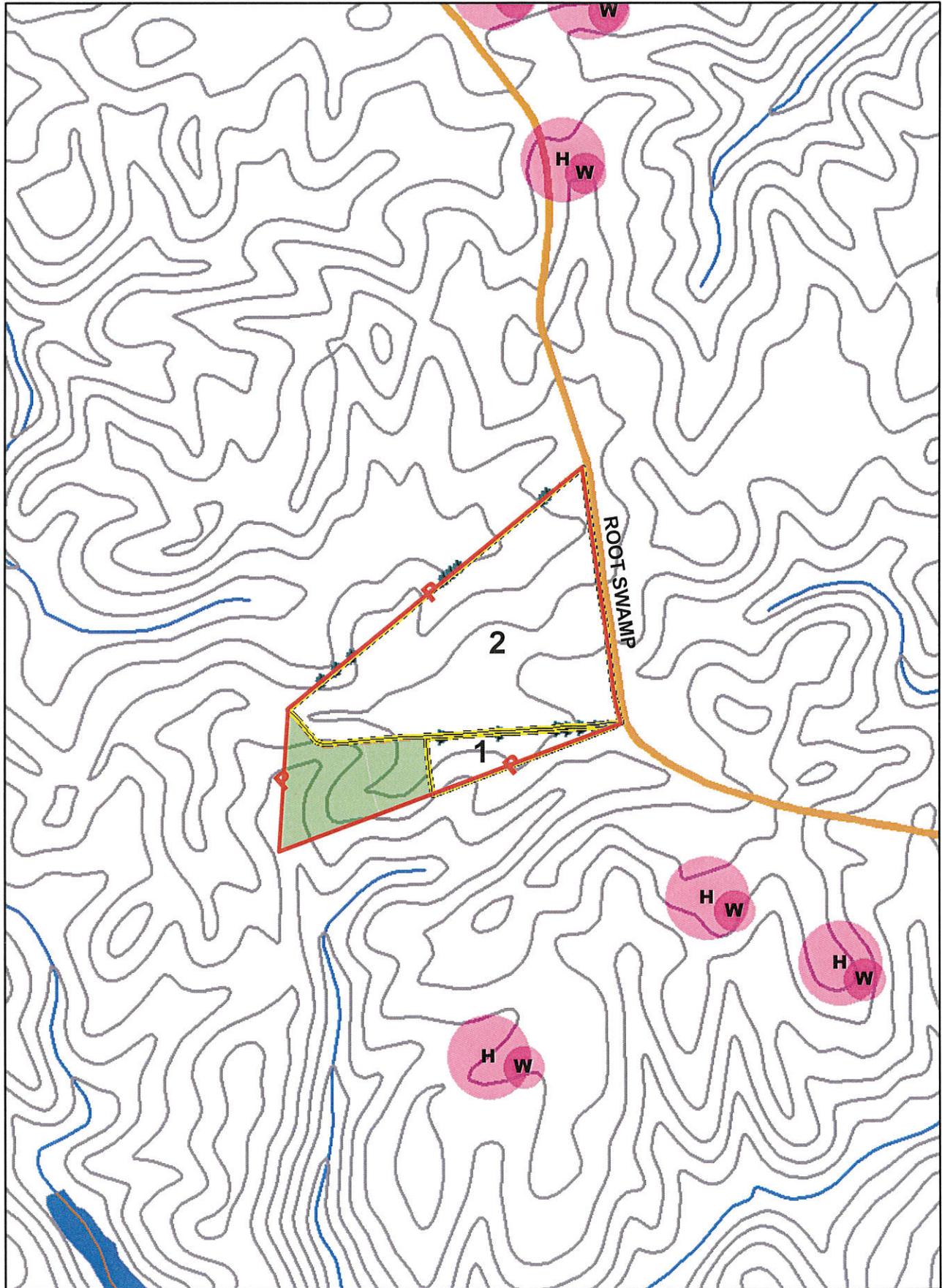
-  Restricted Use
-  Limited Restrictions
-  Exempt from Conservation Compliance Provisions

Tract Cropland Total: 24.07 acres

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.

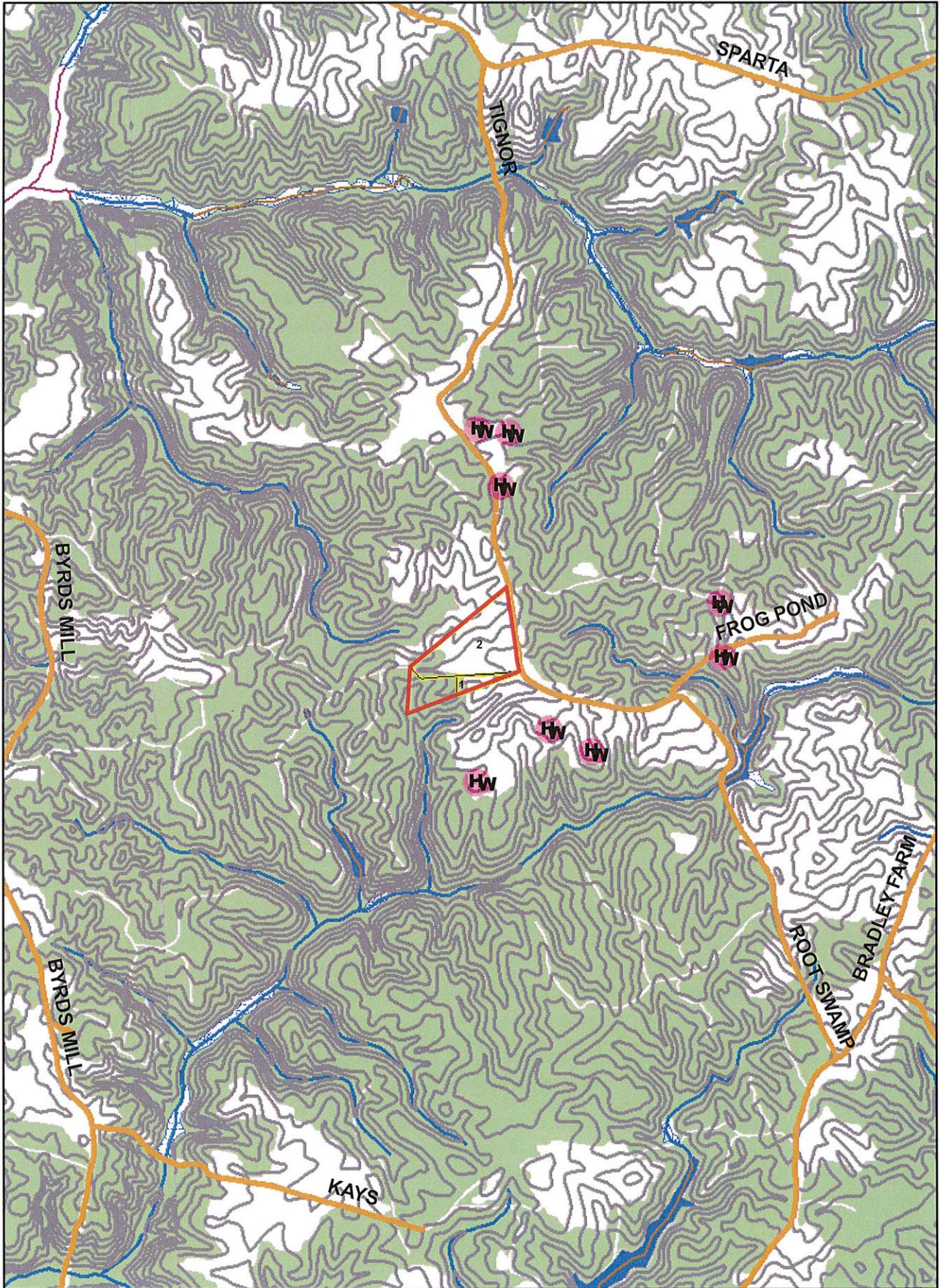


7-30-18

SITE PLAN

1 in = 660 feet





7-30-18

TOPOGRAPHIC MAP

1 in = 2,000 feet

