

LAND APPLICATION SITE
RICHARD M. SCHOOLS, JR.
KQRMS 1-3, 5-8
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 5-9-18 between Richard M. Schools 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			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>32-77R-138R</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.

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

Richard M. Schools Jr (Owner) Richard Schools Jr 8299 Newtown Rd.
 Landowner - Printed Name, Title Signature Mailing Address & Phone Number
23148

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

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

Permittee: Recyc Systems, Inc

County or City: King & Queen Co.

Landowner: Richard M. Schools 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).

Richard Schools Jr
Landowner's Signature

5-9-18
Date

Richard Schools 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 5-17-18 between Anne F. Schools 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			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>32-8R-890</u>	<u>32-77R-138R</u>		
<u>32-9L-626</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.

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

Anne F. Schools (Owner)
 Landowner - Printed Name, Title

Anne F. Schools
 Signature

8299 Newtown Road
St. Stephens Church, Va. 23148
 Mailing Address & Phone Number

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]
 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: Anne F. Schools

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,
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Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
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 - 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).

Anne F. Schools
Landowner's Signature

5/17/18
Date

Richard Schools 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 5-17-18 between Mary F. Langford 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, 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			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>32-9L-626</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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Class B biosolids Water treatment residuals Food processing waste Other industrial sludges
 Yes No Yes No Yes No

Mary F. Langford
 Landowner - Printed Name, Title

Signature

8299 Newtown Road
St. Stephens Church, Va. 23148
 Mailing Address & Phone Number

Mary F. Langford (Owner)
 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.

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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)

Stumbo
 Permittee - Authorized Representative
 Printed Name

Stumbo
 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: Mary F. Langford

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.

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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).

Mary F. Langford
Landowner's Signature

5-17-18

Date

Richard Schoob Jr
Farm Operator Signature

Mailing Address & Phone Number

FARM DATA SHEET

SITE NAME:	Richard M. Schools, Jr.	COUNTY:	King & Queen			
OWNER:	See List Below	OPERATOR:	Richard M. Schools, Jr.			
OWNER'S ADDRESS:	See List Below	OPERATOR'S ADDRESS:	8299 Newton Road St. Stephens Church, VA 23148			
OWNER'S TELEPHONE:	See List Below	OPERATOR'S TELEPHONE:	804-769-2575			
GENERAL FARM TYPE:	Row Crops	CELL PHONE:	804-514-4236			
# CATTLE:	None	EMAIL:	-			
LAGOON or SLURRY: N/A		LATITUDE:	F 1-3 37.914			
			F 5-6 37.903			
			F 7-8 37.874			
TOPO QUAD: Sparta		LONGITUDE:	F 1-3 - 77.147			
			F 5-6 - 77.086			
			F 7-8 - 77.115			
COMMENTS:	METHOD OF DETERMINATION: Online Maps					
<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; border: none;"> Fields 1-3 (TM 32-77R-138R) Richard M. Schools, Jr. & Anne F. Schools 8299 Newton Road St. Stephens Church, VA 23148 </td> <td style="width: 33%; border: none;"> Fields 5-6 (TM 32-8R-890) Anne F. Schools 8299 Newton Road St. Stephens Church, VA 23148 </td> <td style="width: 33%; border: none;"> Fields 7-8 (TM 32-9L-626) Anne F. Schools & Mary F. Langford 8299 Newton Road St. Stephens Church, VA 23148 </td> </tr> </table>				Fields 1-3 (TM 32-77R-138R) Richard M. Schools, Jr. & Anne F. Schools 8299 Newton Road St. Stephens Church, VA 23148	Fields 5-6 (TM 32-8R-890) Anne F. Schools 8299 Newton Road St. Stephens Church, VA 23148	Fields 7-8 (TM 32-9L-626) Anne F. Schools & Mary F. Langford 8299 Newton Road St. Stephens Church, VA 23148
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There is no Field 4. Fields 7 & 8 was old Fields 1 & 2 Frances G. Fogg Site. Field 5 & 6 was originally in James M. Fogg Site Book.						

SD
6-11-18

Richard M. Schools, Jr.
King & Queen County

There is no Field 4.

Fields 7 & 8 was old Fields 1 & 2 Frances G. Fogg Site.

Field 5 & 6 was originally in James M. Fogg Site Book.

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood			
KQRMS 1	26.1	-	-	-	-	YO 55	32-77R-138R	T 2528 F 4
KQRMS 2	34.4	5E Nov.-Apr.	-	-	-	YO 55	32-77R-138R	T 2528 F 4
KQRMS 3	53.5	5E Nov.-Apr.	-	-	-	YO 55	32-77R-138R	T 2528 F 1
KQRMS 5	47.7	5E Nov.-Apr. 15C Nov.-Apr.	-	-	-	YO 54	32-8R-890	T 1647 F 1
KQRMS 6	57.6	5E Nov.-Apr.	-	-	-	YO 54	32-8R-890	T 1647 F 2
KQRMS 7	12.7	-	-	-	-	YO 55	32-9L-626	T 1712 F 1
KQRMS 8	22.1	5D Nov.-Apr. 10A Dec.-Apr.	-	-	-	YO 55	32-9L-626	T 1712 F 2
TOTAL ACRES IN SITE	254.1							

NUTRIENT MANAGEMENT PLAN IDENTIFICATION

Operator

Richard M. Schools
8299 Newton Road
St. Stephens Church, VA 23148
804-514-4236

Integrator:None

Farm Coordinates

Easting: 0, Northing: 0, zone: 17

Watershed Summary

watershed: YO55
county: King & Queen

Nutrient Management Planner

John Doe
123 Main St.
Suite #5
Blacksburg, VA 24060

Certification Code: 103

Acreage Use Summary

Total Acreage in this plan: 254.1
Cropland: 254.1
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 6/12/2018
Valid until 6/12/2020

Signature: _____
Planner date

Nutrient Management Plan Balance Sheet
(Fall, 2018-Winter, 2020)
Richard M. Schools, Jr.
Planner: John Doe (cert. No. 103)

Tract: 1647 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
1/KQRMS 5(N)	48/48	2018 2019	Wheat (grain)	100-30-40 -- -- --	0/0				100-30-40	N/A		
2/KQRMS 6(N)	58/58	2018 2019	Wheat (grain)	100-40-40 -- -- --	0/0				100-40-40	N/A		

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

Tract: 1712 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
1/KQRMS 7(N)	13/13	2018	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
		2019 Soybeans (DC)	--- -- 0-40-60	0/0				0-100-120	N/A		
2/KQRMS 8(N)	22/22	2018	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
		2019 Soybeans (DC)	--- -- 0-40-80	0/0				0-100-140	N/A		

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

Notes:

Tract: 2528

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
2/KQRMS 1(N)	26/26	2018 2019	Wheat (grain)	100-40-40	0/0				100-40-40	N/A		
		 Soybeans (DC)	--- -- 0-40-40	0/0				0-80-80	N/A		
4/KQRMS 2(N)	34/34	2018 2019	Wheat (grain)	100-30-40	0/0				100-30-40	N/A		
		 Soybeans (DC)	--- -- 0-30-40	0/0				0-60-80	N/A		
1/KQRMS 3(N)	54/54	2018 2019	Wheat (grain)	100-30-40	0/0				100-30-40	N/A		
		 Soybeans (DC)	--- -- 0-30-40	0/0				0-60-80	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
1647	KQRMS 5	49	2016-Wi	H (78 P ppm)	H- (129 K ppm)	A&L MIII	6.6		
1647	KQRMS 6	58	2016-Wi	H- (64 P ppm)	M+ (112 K ppm)	A&L MIII	6.7		
1712	KQRMS 7	13	2018-Wi	H- (54 P ppm)	M (75 K ppm)	A&L MIII	7.		
1712	KQRMS 8	23	2018-Wi	H- (56 P ppm)	M- (60 K ppm)	A&L MIII	6.4		
2528	KQRMS 1	25	2014-Fa	H- (64 P ppm)	M+ (118 K ppm)	A&L MIII	6.1		
2528	KQRMS 2	33	2014-Fa	H (94 P ppm)	M+ (107 K ppm)	A&L MIII	6.2		
2528	KQRMS 3	54	2014-Fa	H (100 P ppm)	M+ (122 K ppm)	A&L MIII	6.2		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
1647	1647/1	KQRMS 5	49	Suffolk	IIIa	II	III	II	
	1647/2	KQRMS 6	58	Suffolk	IIIb	II	Not Suited	III	
1712	1712/1	KQRMS 7	13	Emporia	IIIa	II	III	II	
	1712/2	KQRMS 8	23	Emporia	IIIa	II	III	II	
2528	2528/2	KQRMS 1	25	Emporia	IIIa	II	III	II	
	2528/4	KQRMS 2	33	Suffolk	IIIb	II	Not Suited	III	
	2528/1	KQRMS 3	54	Suffolk	IIIb	II	Not Suited	III	

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: **Richard M. Schools, Jr.**

Location: King & Queen

Specialist: John Doe

N-based Acres: 254.7

P-based Acres: 0.0

Tract Name: **1647**

FSA Number: 1647

Location: King & Queen

Field Name: **KQRMS 5**

Total Acres: 48.90 Usable Acres: 48.90

FSA Number: 1

Tract: 1647

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-2016	6.6	H(78 P ppm)	H-(129 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
11	4A	Emporia
17	4B	Emporia
7	4C	Emporia

8	5E	Emporia Slagle
2	15B	Slagle
11	15C	Slagle
27	17A	Suffolk
18	17B	Suffolk

Field Warnings:

Field Name: KQRMS 6

Total Acres: 58.10 Usable Acres: 58.10

FSA Number: 2

Tract: 1647

Location: King & Queen

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
Wi-2016	6.7	H-(64 P ppm)	M+(112 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
12	17B	Suffolk
47	17A	Suffolk
2	5E	Emporia Slagle
34	4B	Emporia
6	4A	Emporia

Field Warnings:

Tract Name: 1712

FSA Number: 1712

Location: King & Queen

Field Name: KQRMS 7

Total Acres: 13.20 Usable Acres: 13.20

FSA Number: 1

Tract: 1712

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-2018	7.0	H-(54 P ppm)	M(75 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
4	4A	Emporia
65	4B	Emporia
10	5E	Emporia Slagle
21	17B	Suffolk

Field Warnings:

Field Name: KQRMS 8

Total Acres: 22.50 Usable Acres: 22.50

FSA Number: 2

Tract: 1712

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-2018	6.4	H-(56 P ppm)	M-(60 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
96	4B	Emporia
2	5D	Emporia Slagle
2	10A	Munden

Field Warnings:

Tract Name: 2528

FSA Number: 2528

Location: King & Queen

Field Name: KQRMS 1

Total Acres: 24.70 Usable Acres: 24.70

FSA Number: 2

Tract: 2528

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
------	----	---	---	--	-----

Fa-2014 6.1 H-(64 P ppm) M+(118 K ppm) A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
8	4A	Emporia
54	4B	Emporia
8	4C	Emporia
21	17A	Suffolk
9	17B	Suffolk

Field Warnings:

Field Name: **KQRMS 2**

Total Acres: 33.00 Usable Acres: 33.00

FSA Number: 4

Tract: 2528

Location: King & Queen

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
Fa-2014	6.2	H(94 P ppm)	M+(107 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
51	17B	Suffolk
27	17A	Suffolk
7	14C	Rumford
15	4B	Emporia

Field Warnings:

Field Name: KQRMS 3

Total Acres: 54.30 Usable Acres: 54.30

FSA Number: 1

Tract: 2528

Location: King & Queen

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
Fa-2014	6.2	H(100 P ppm)	M+(122 K ppm)	A&L MIII	

Soils:

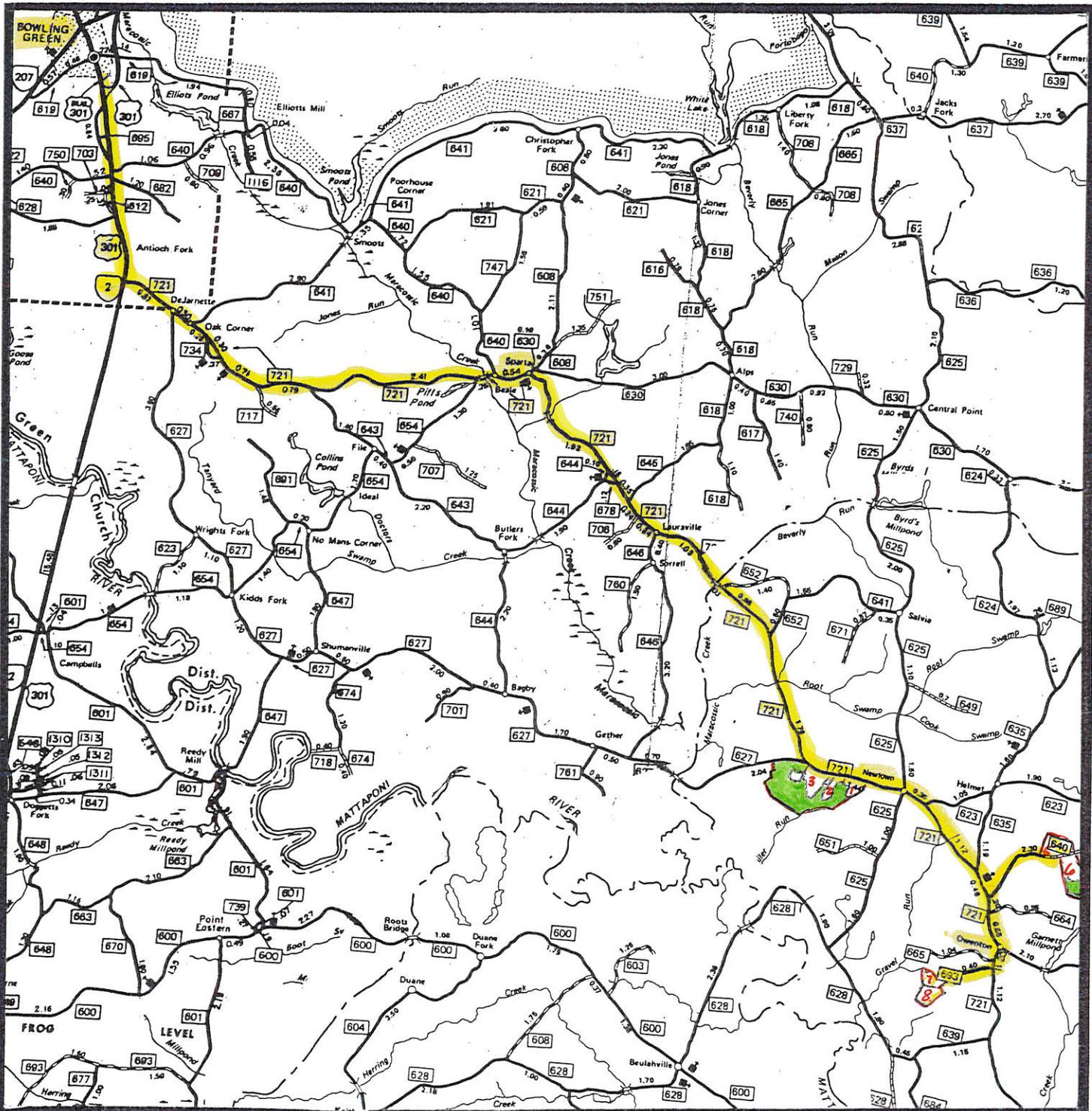
PERCENT	SYMBOL	SOIL SERIES
11	4B	Emporia
12	4C	Emporia
1	5E	Emporia Slagle
1	14C	Rumford
67	17B	Suffolk
8	17C	Suffolk

Field Warnings:

MAPS

Recyc SystemsTM Inc.

(Biosolids Land Application)

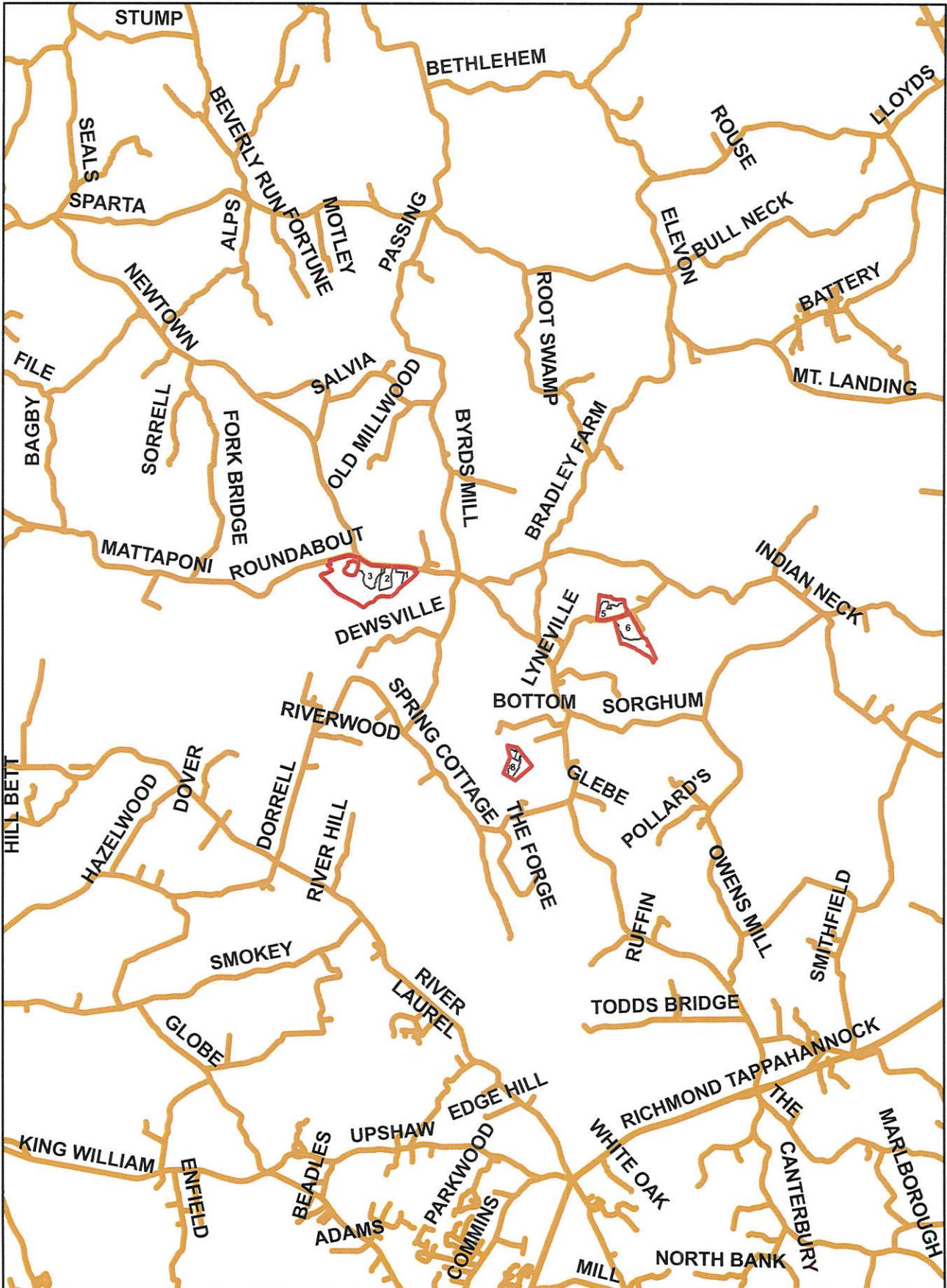


Scale: 1 inch=2 miles

6-11-18

VICINITY MAP



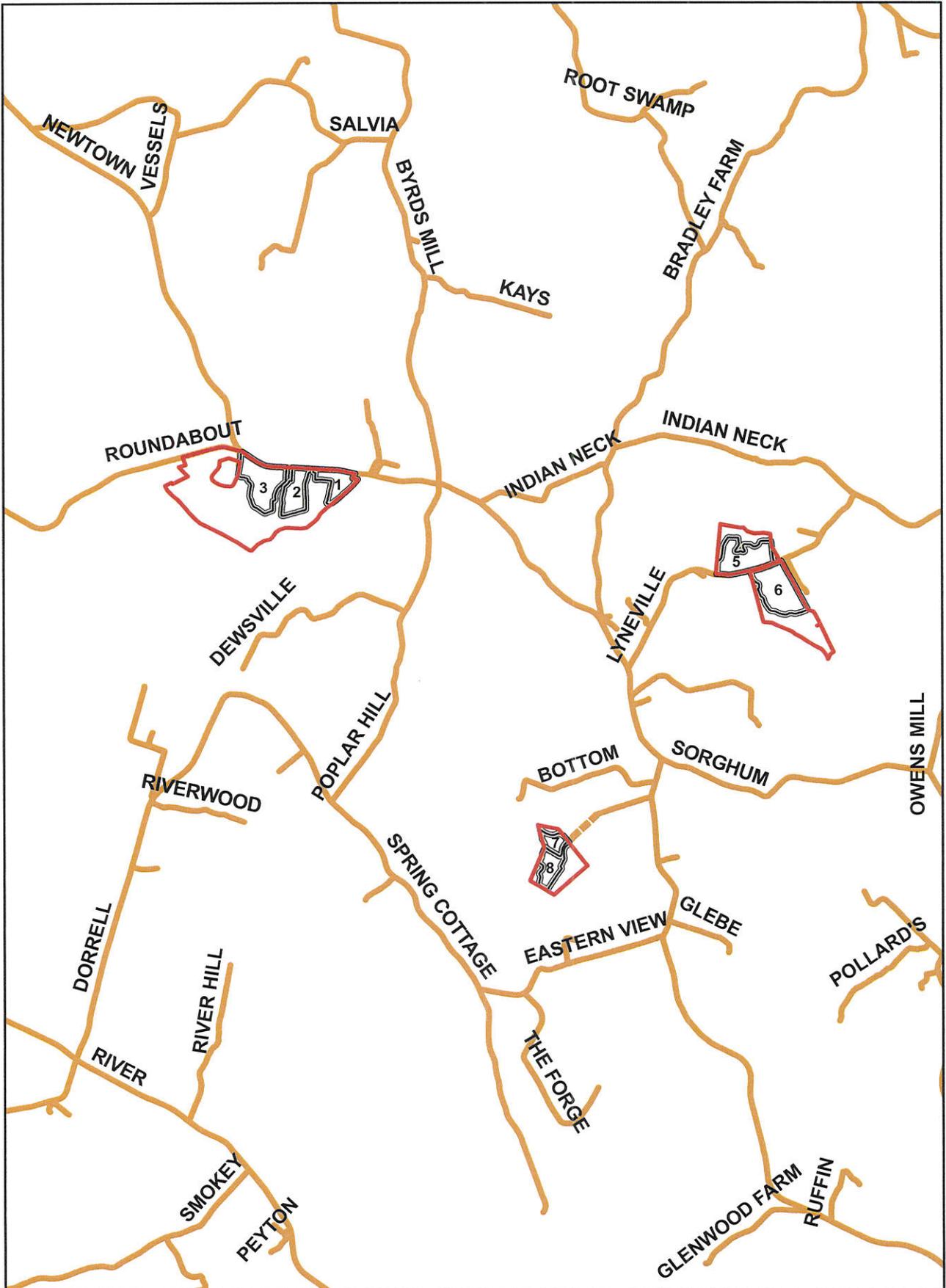


6-11-18

VICINITY MAP

1 in = 2 miles



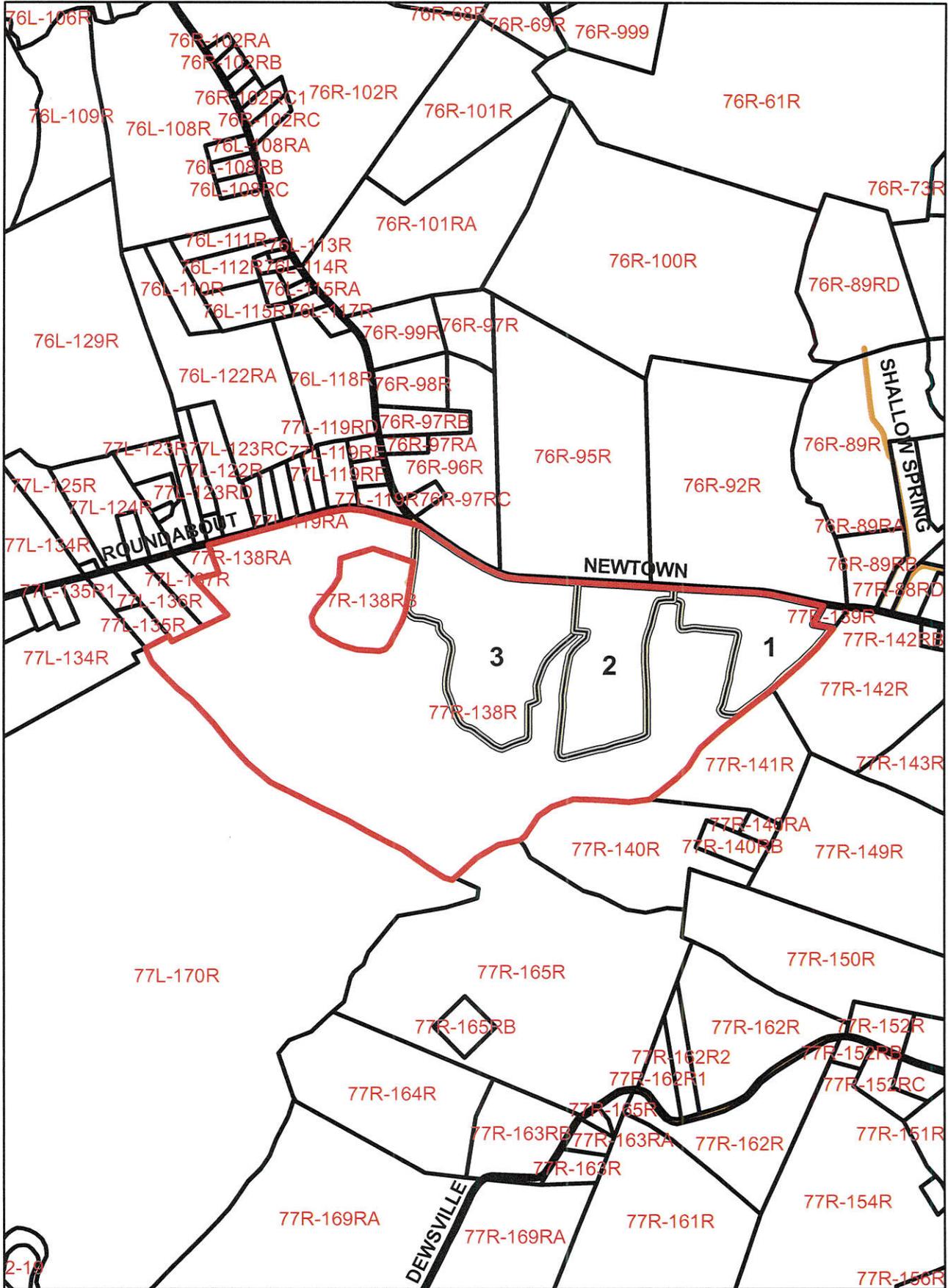


6-11-18

VICINITY MAP

1 in = 1 miles

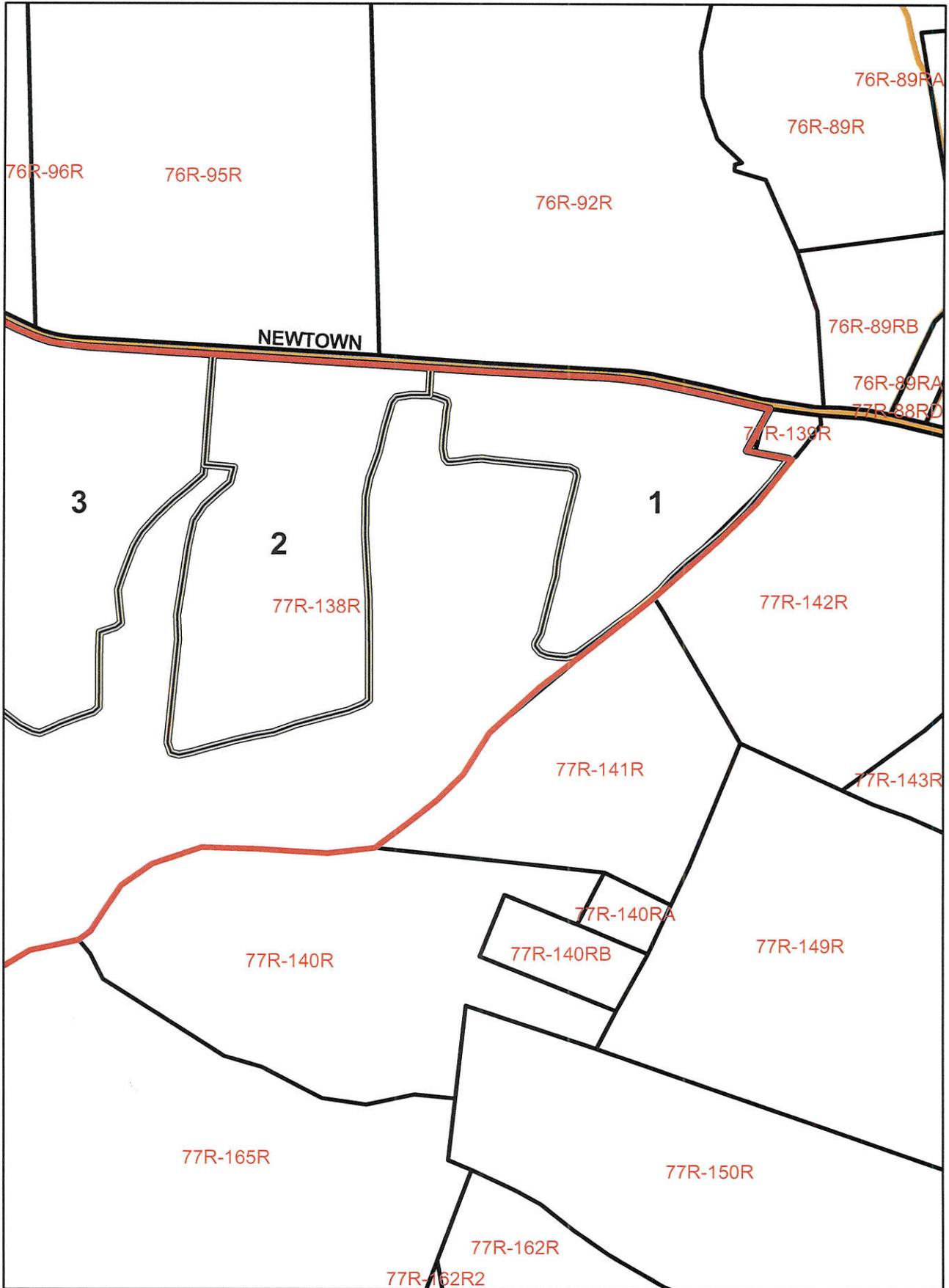




6-11-18

TAX MAP

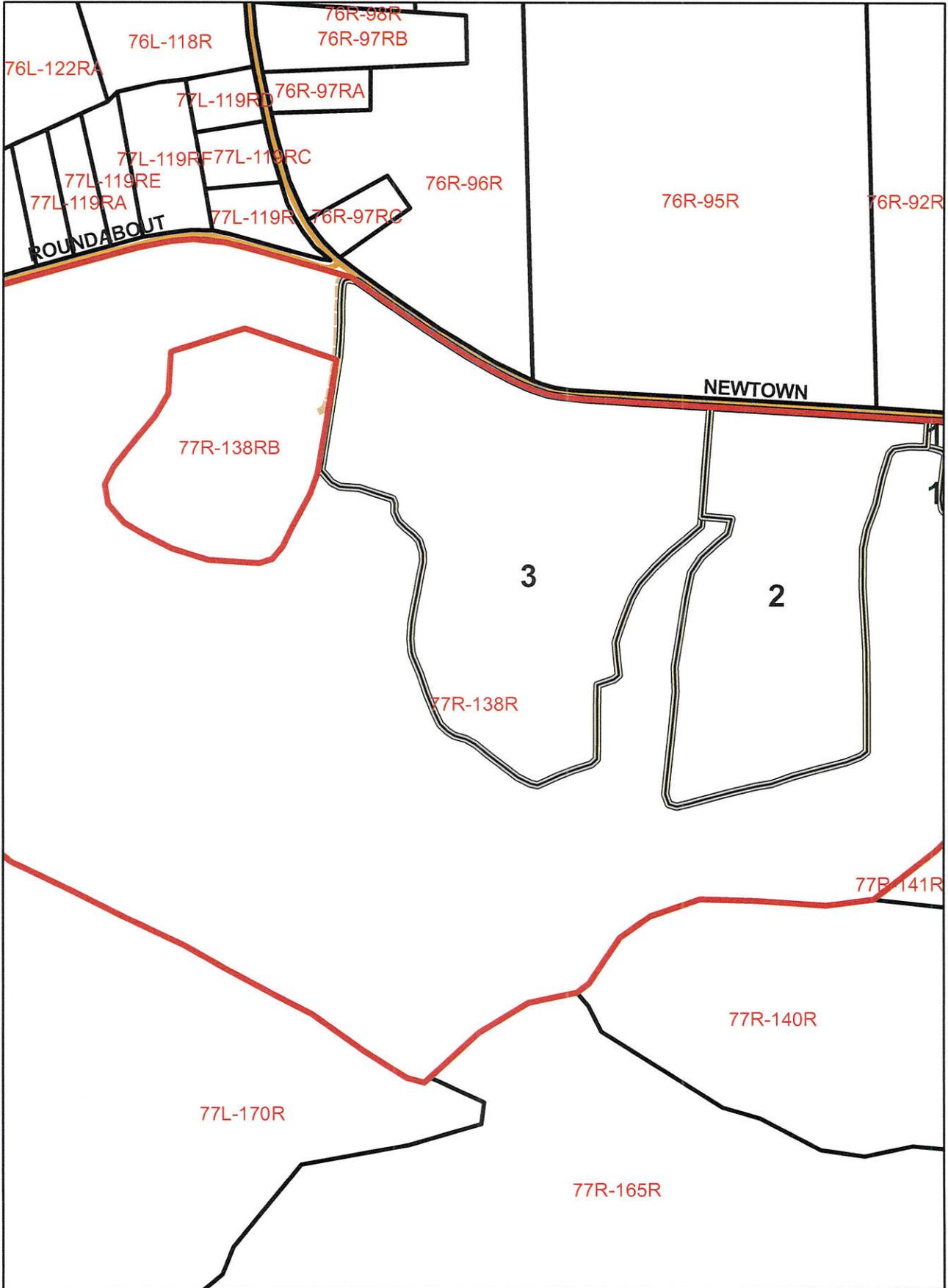
1 in = 1,500 feet



6-11-18

TAX MAP

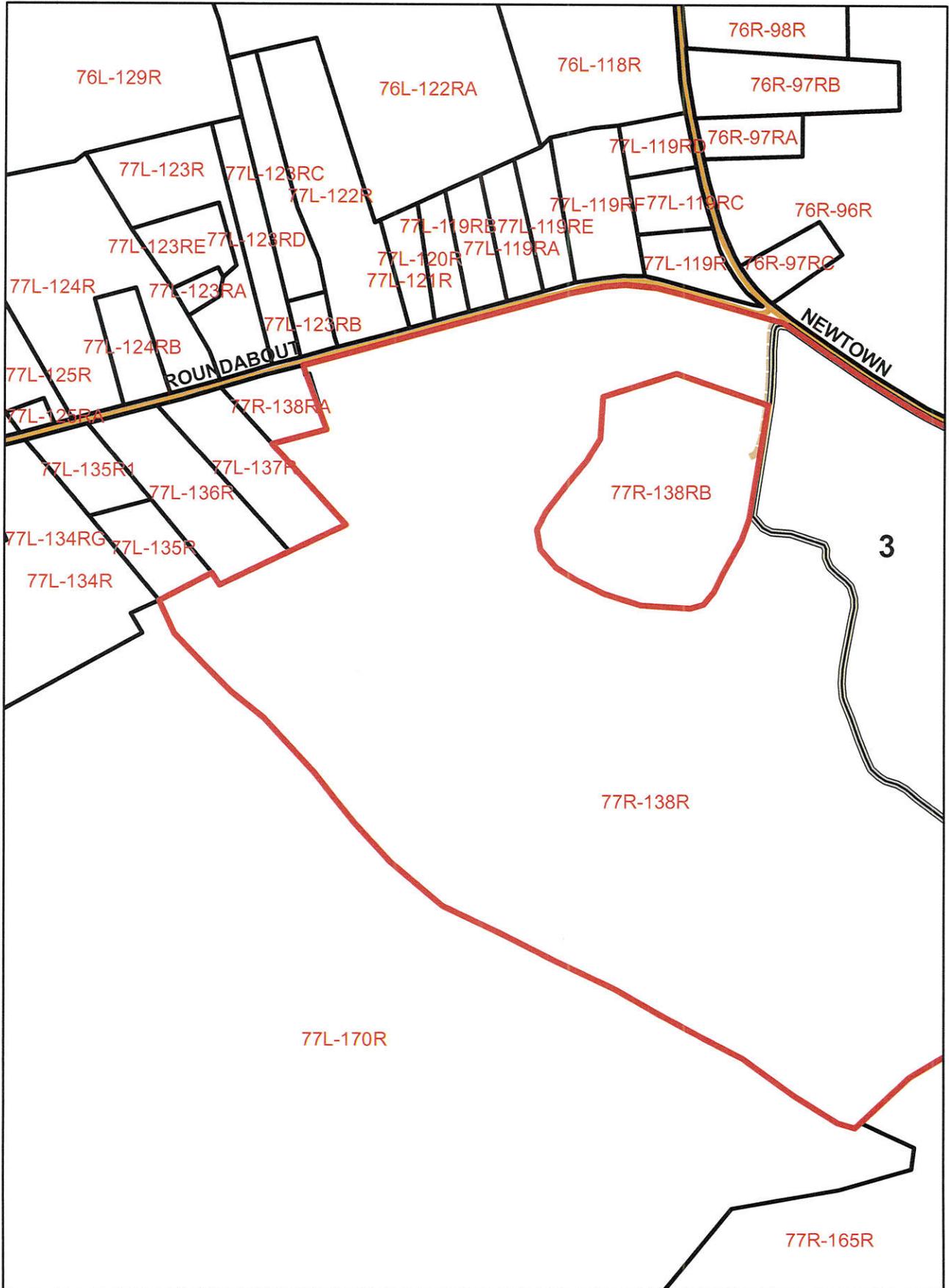
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6-11-18

TAX MAP

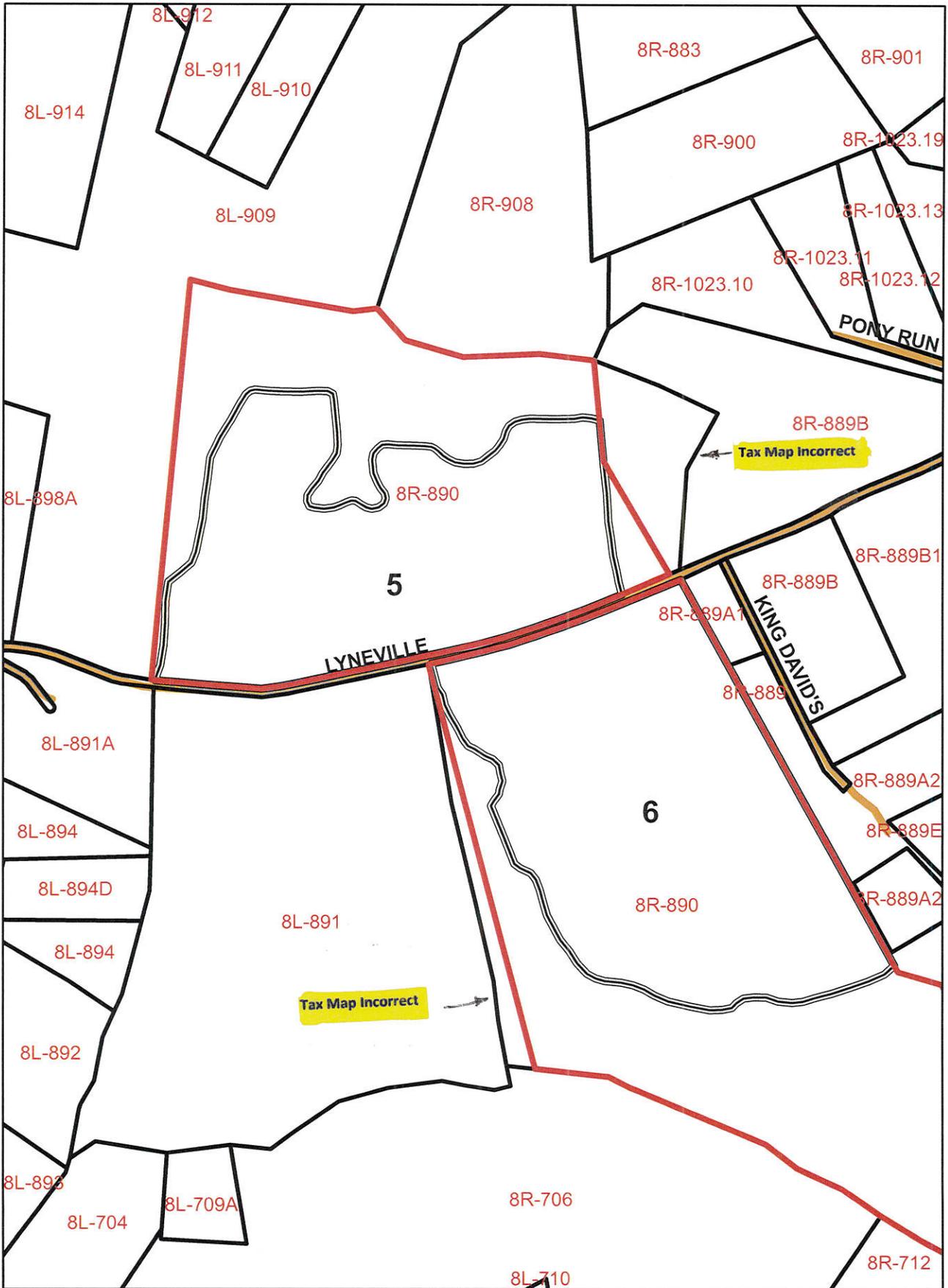
1 in = 660 feet



6-11-18

TAX MAP

1 in = 660 feet

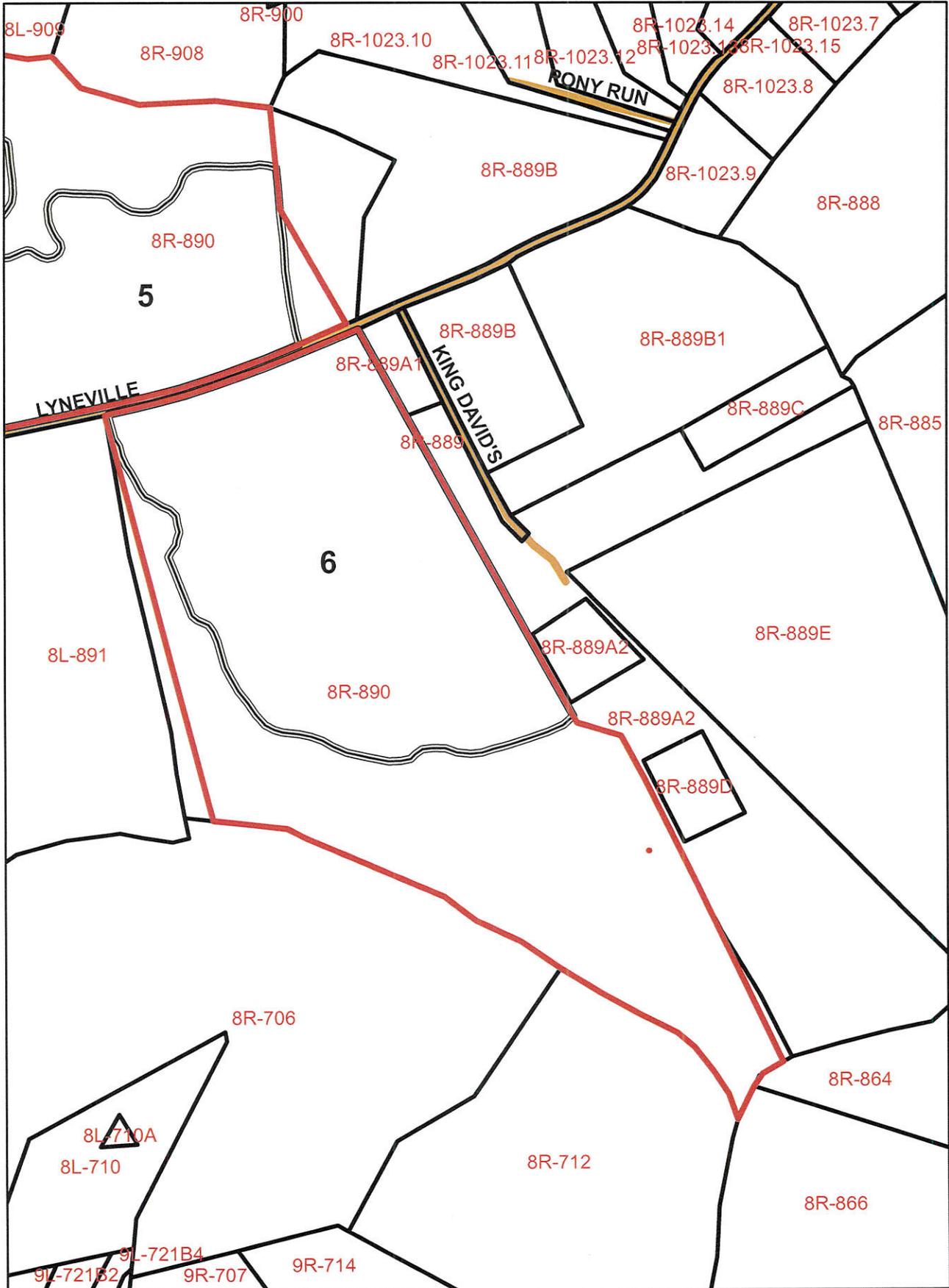


6-11-18

TAX MAP

1 in = 660 feet





6-11-18

TAX MAP

1 in = 660 feet

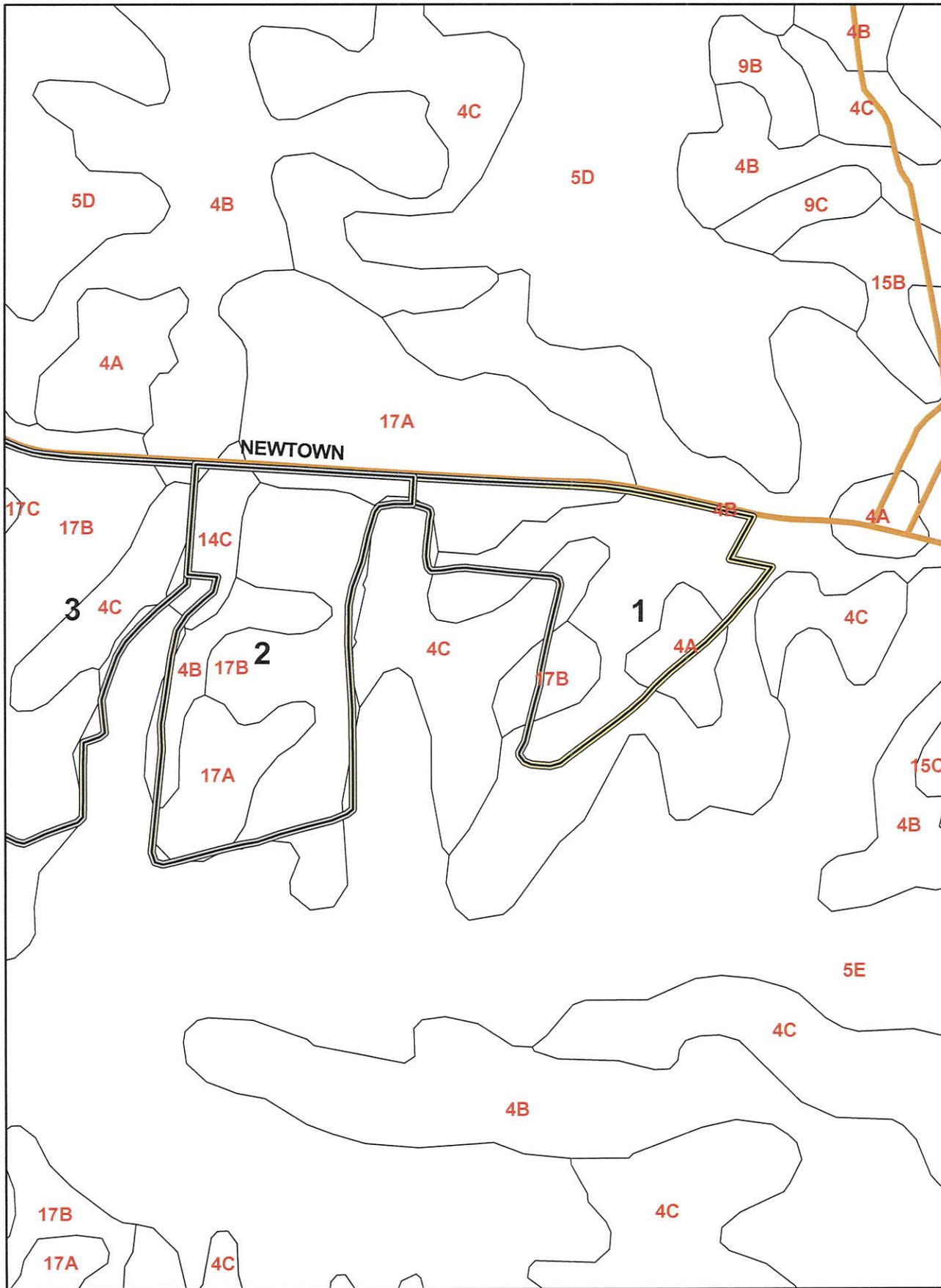
ADJOINING LANDOWNERS

Richard M. Schools, Jr.

KING & QUEEN COUNTY

Tax Map Parcel #	Owner Name(s)
32-76R-96R	Henry and R. Byrd Acree
32-76R-95R	B. Trust
32-76R-92R	B. Trust
32-77R-139R	John W. and Cathy Worrell
32-76R-89RB	Edward amd Joan Martin
32-77R-142R	Nora C. Howell Trustee
32-77R-141R	Glenn C. Branscome et. als.
32-77R-140R	William Holmes Estate
32-77R-165R	Anna Rowe Fogg et. als.
32-77R-170R	Cherry Tree Timber LLC
32-77R-134R	Christine Loving Fogg
32-77R-135R	Ollie Kelly et. als.
32-77R-136R	Fannie J. Johnson
32-77R-137R	W. H. Young Estate
32-77R-138RA	Richard M. Schools, Jr. et. ux.
32-77R-138RB	Virginia Sand and Stone LLC
32-77R-123R	William G. Johnson
32-77R-123RD	Barbara Rene Bryant
32-77R-123RC	Ira E. and Patricia Johnson
32-77R-122R	William G. Johnson
32-77R-120R	Ryan S. Dennison
32-77R-119RB	Steven E. Johnson
32-77R-119RA	James E. Hill
32-77R-119RE	Doris R. Harvey
32-77R-119RF	Roger and Lalonnie Miller
32-77R-119R	Thelma and Lorenza Boxley
32-77R-119RC	Lucy and Andrea Johnson
32-8L-909	John Hancock Mutal Life Ins. Co.,
32-8R-908	Steven and Mildred Fischer
32-8R-1023-10	William E. Flowers

Tax Map	Owner Name(s)
32-8R-889B	Theodore Nelson Gaines
32-8R-889A1	Wayne Anthony Pollard, Sr. and Sylvia
32-8L-889	Essex Industries Inc.
32-8L-889A	Keith L. King Sr.
32-8L-889A2	Ereka L. King
32-8L-889D	Keith L. King Sr.
32-8L-864	Ann M. Ransone
32-8L-712	Docotr Roane
32-8L-706	Carl Brown
32-8L-891	John Hancock Mutal Life Ins. Co.
32-8L-891A	King & Queen Co,
32-9L-634	Vivian Broaddus et. als.
32-9L-623	Dora Crouch Fogg
32-9L-618	Phillip and Linda Minor
32-9L-617	Briar Hill Holding LLC
32-9L-617A	Cynthia W. Norman
32-78R-679	Thomas Franklin Fines
32-78R-678	Thomas Franklin Fines
32-78R-677	Charles and Patricia Dyson
32-9L-637	Peter and Susan Buckley



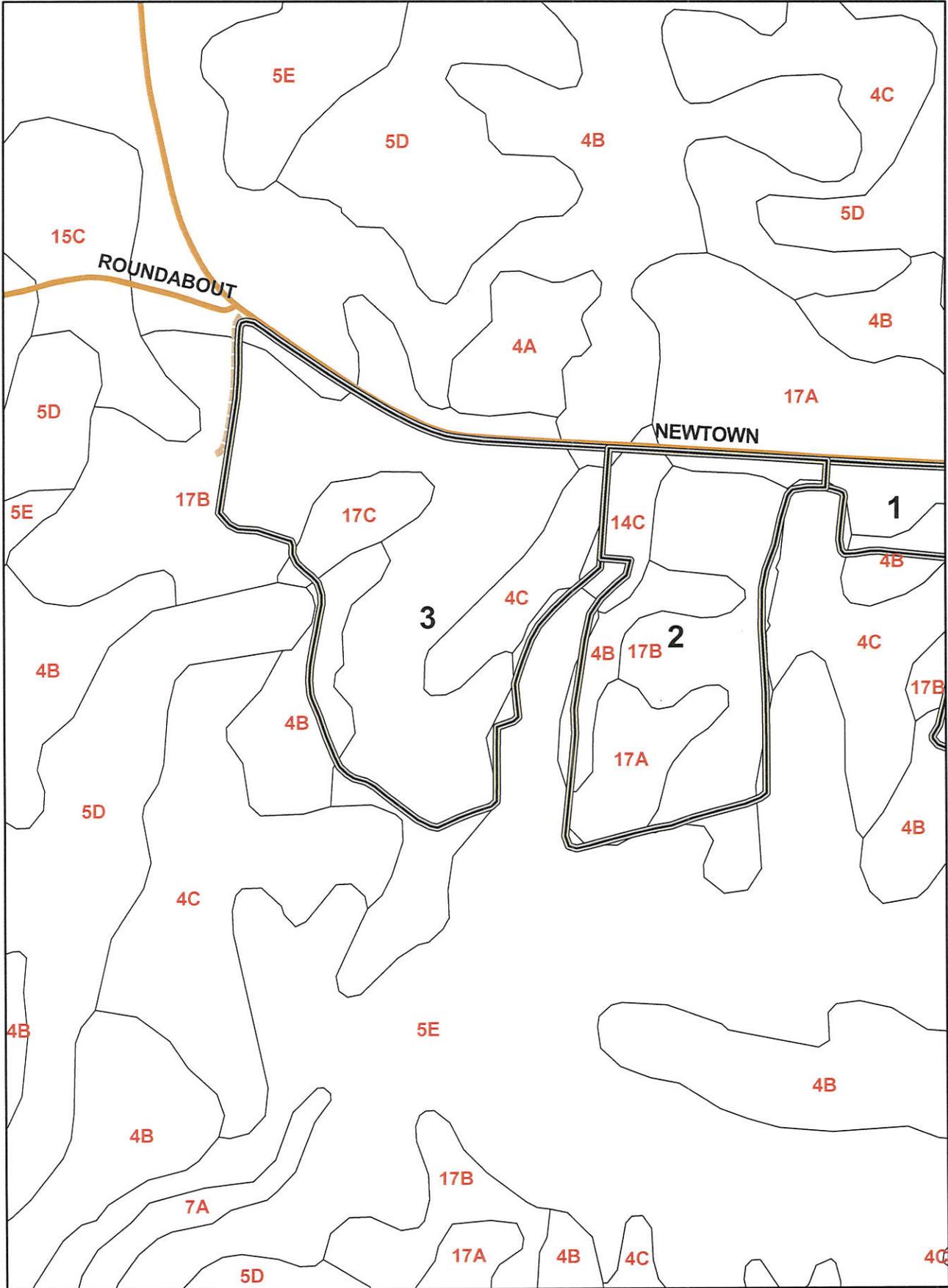
6-11-18



Frequent
Flooding

SOIL MAP

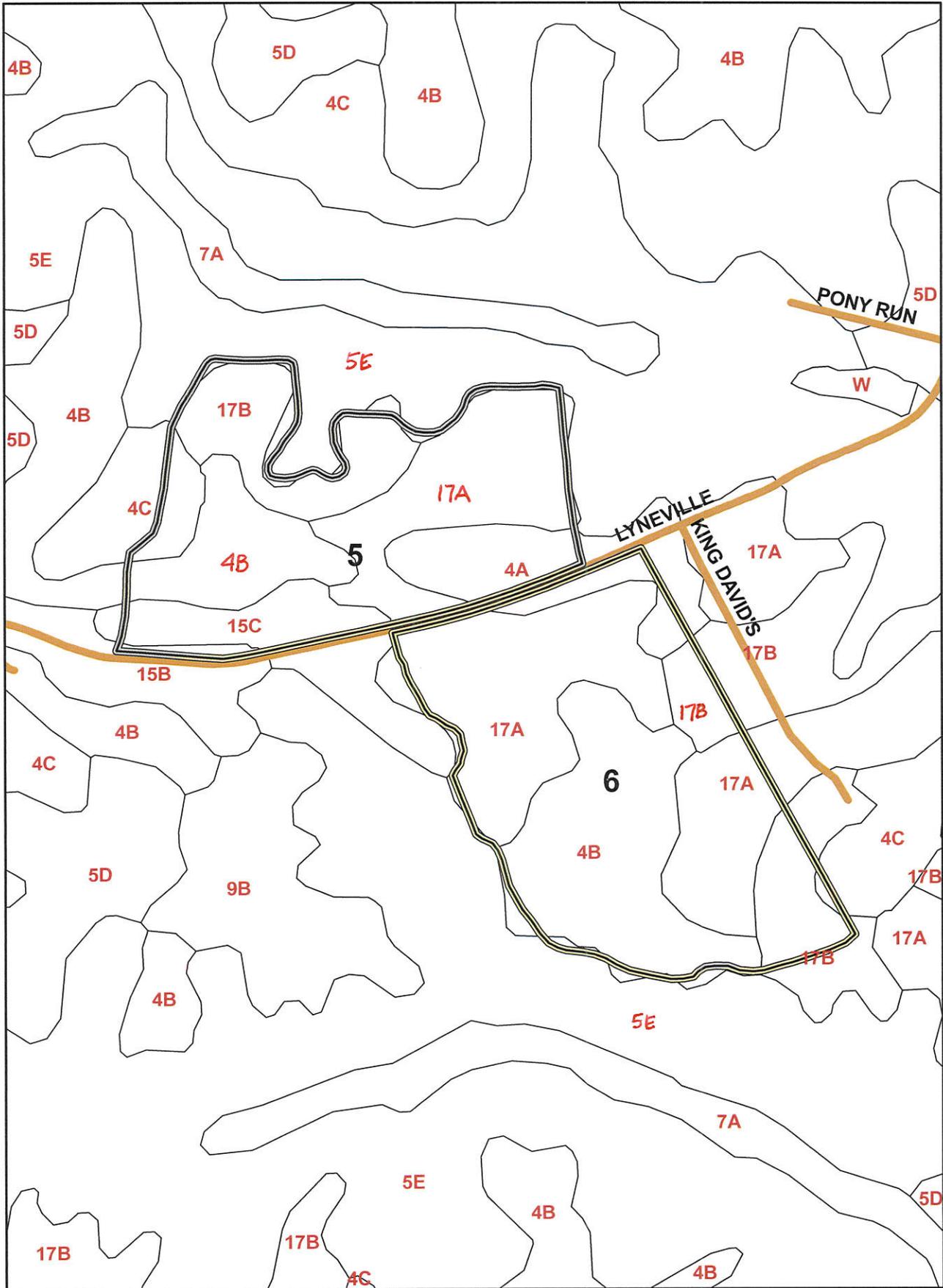
1 in = 660 feet



6-11-18

SOIL MAP

1 in = 660 feet

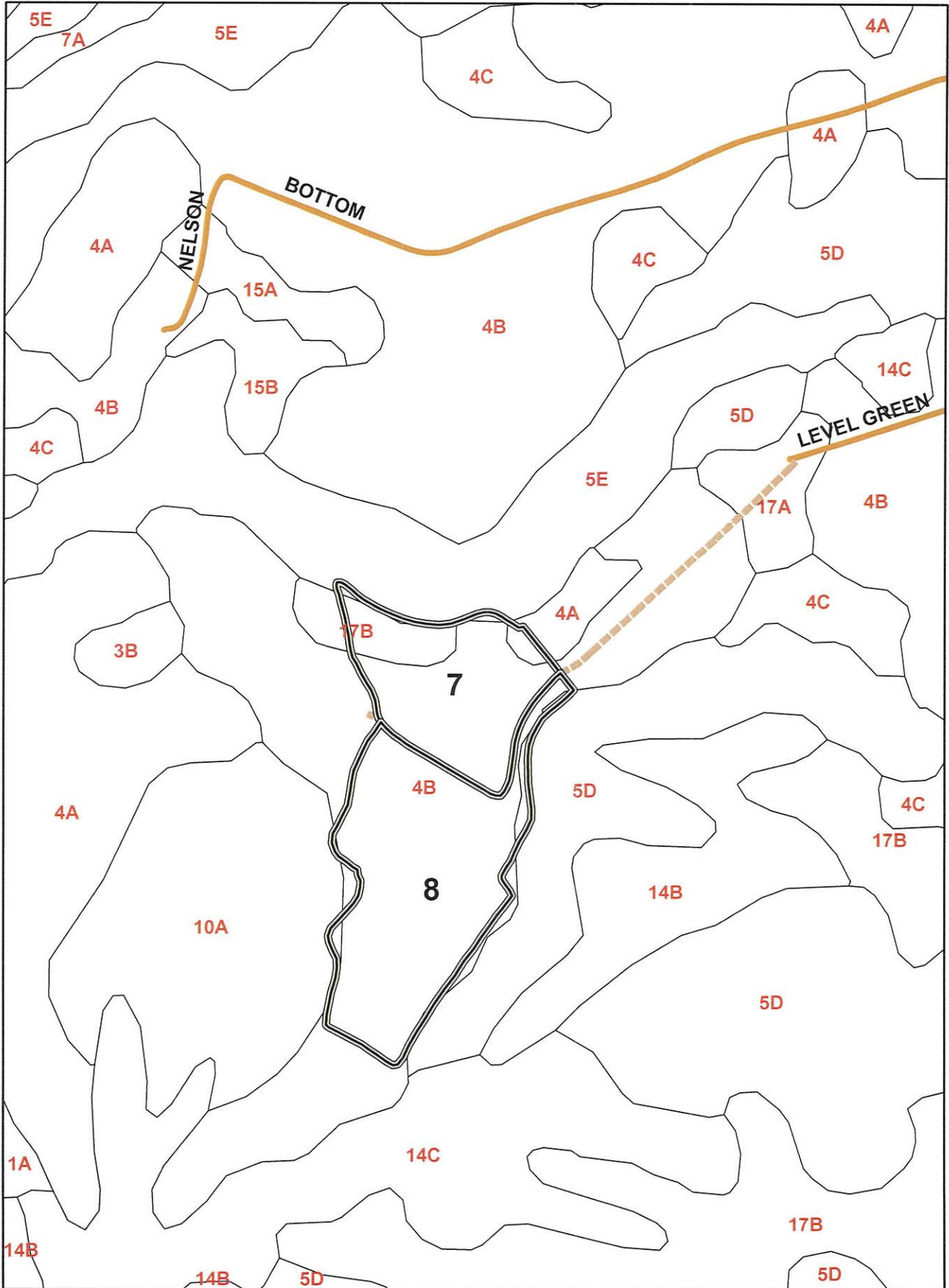


 Frequent Flooding

6-11-18

SOIL MAP

1 in = 660 feet



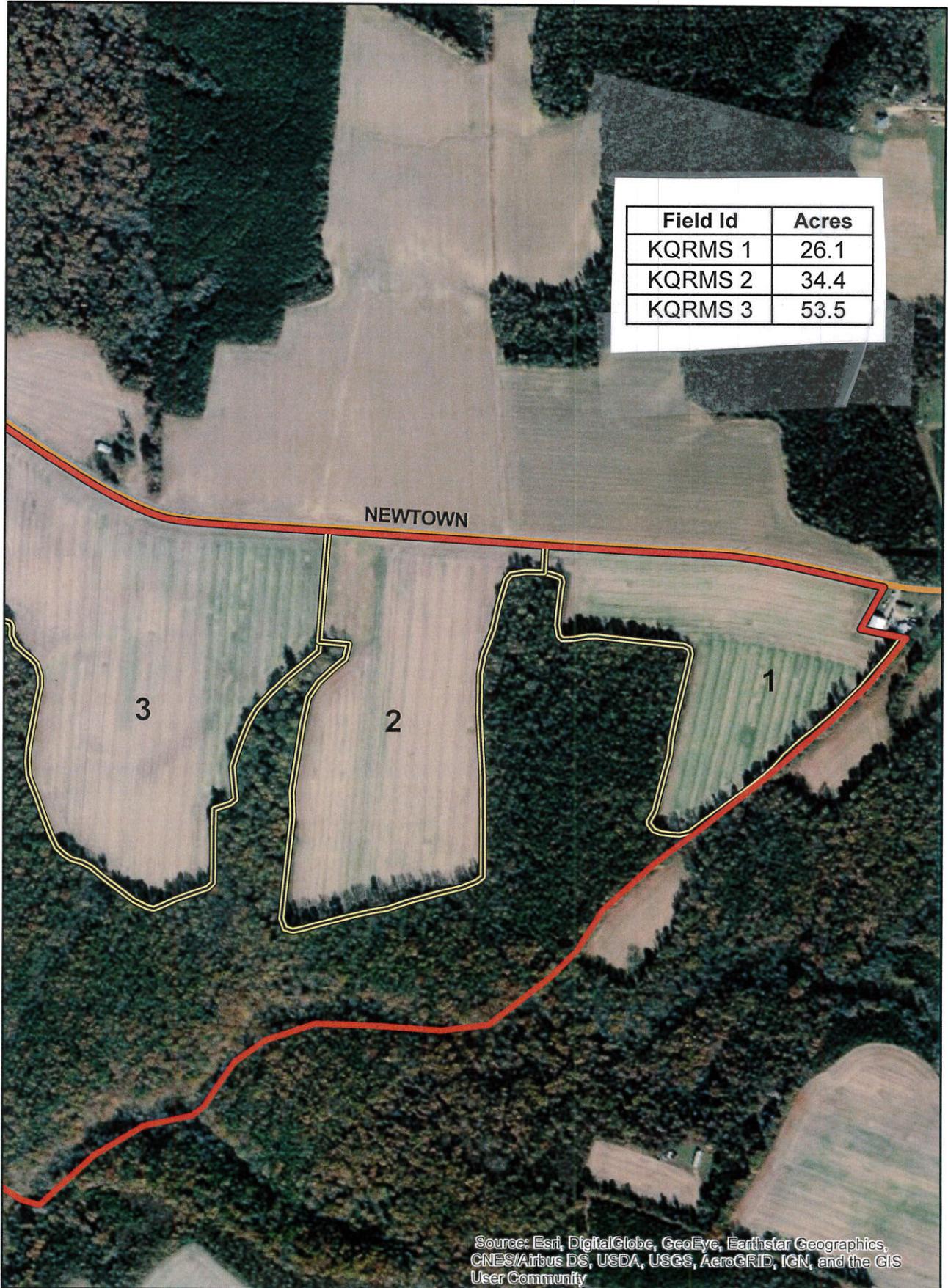
6-11-18



Frequent
Flooding

SOIL MAP

1 in = 660 feet



6-11-18

AERIAL MAP

1 in = 660 feet



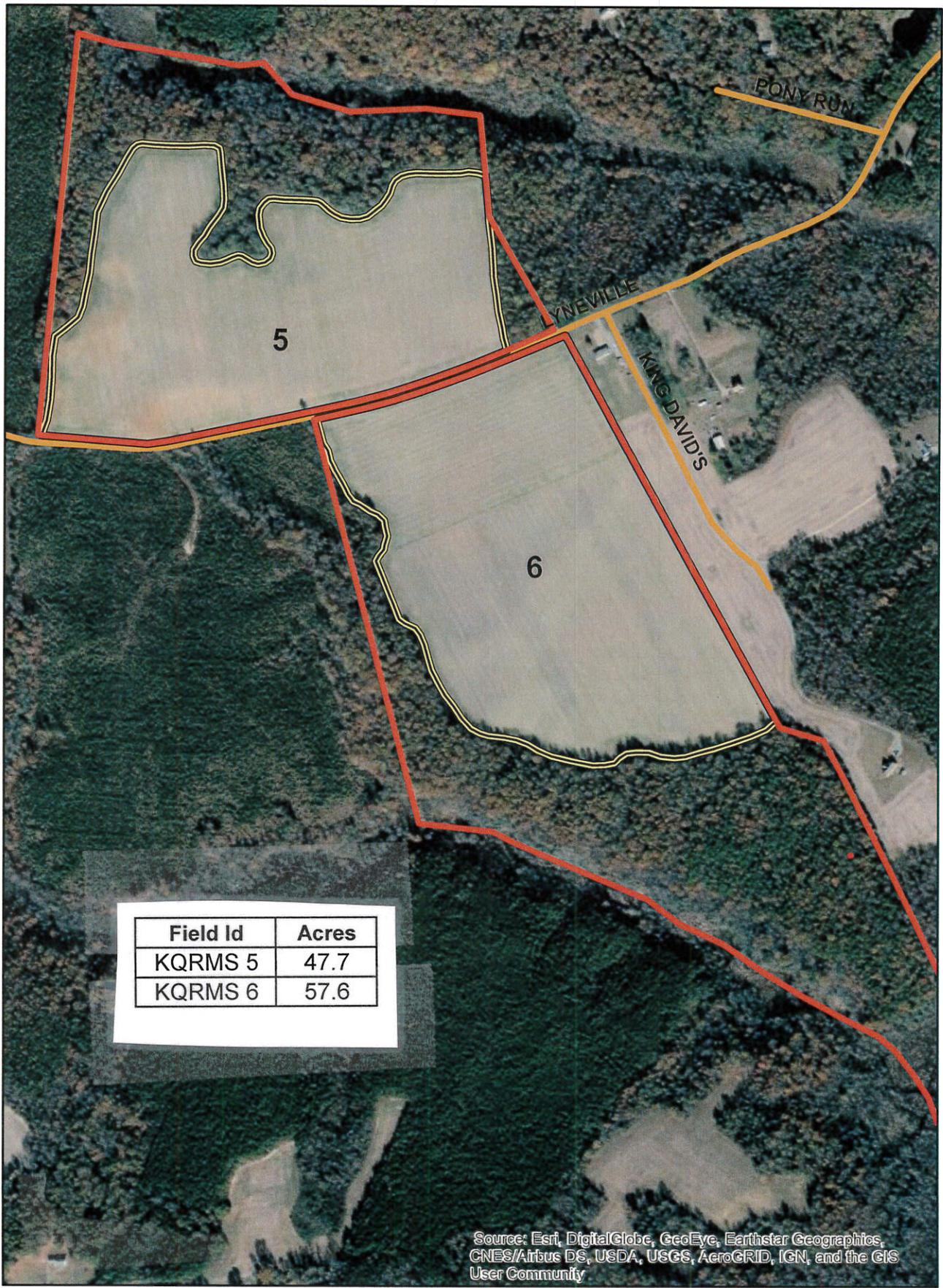
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



6-11-18

AERIAL MAP

1 in = 660 feet



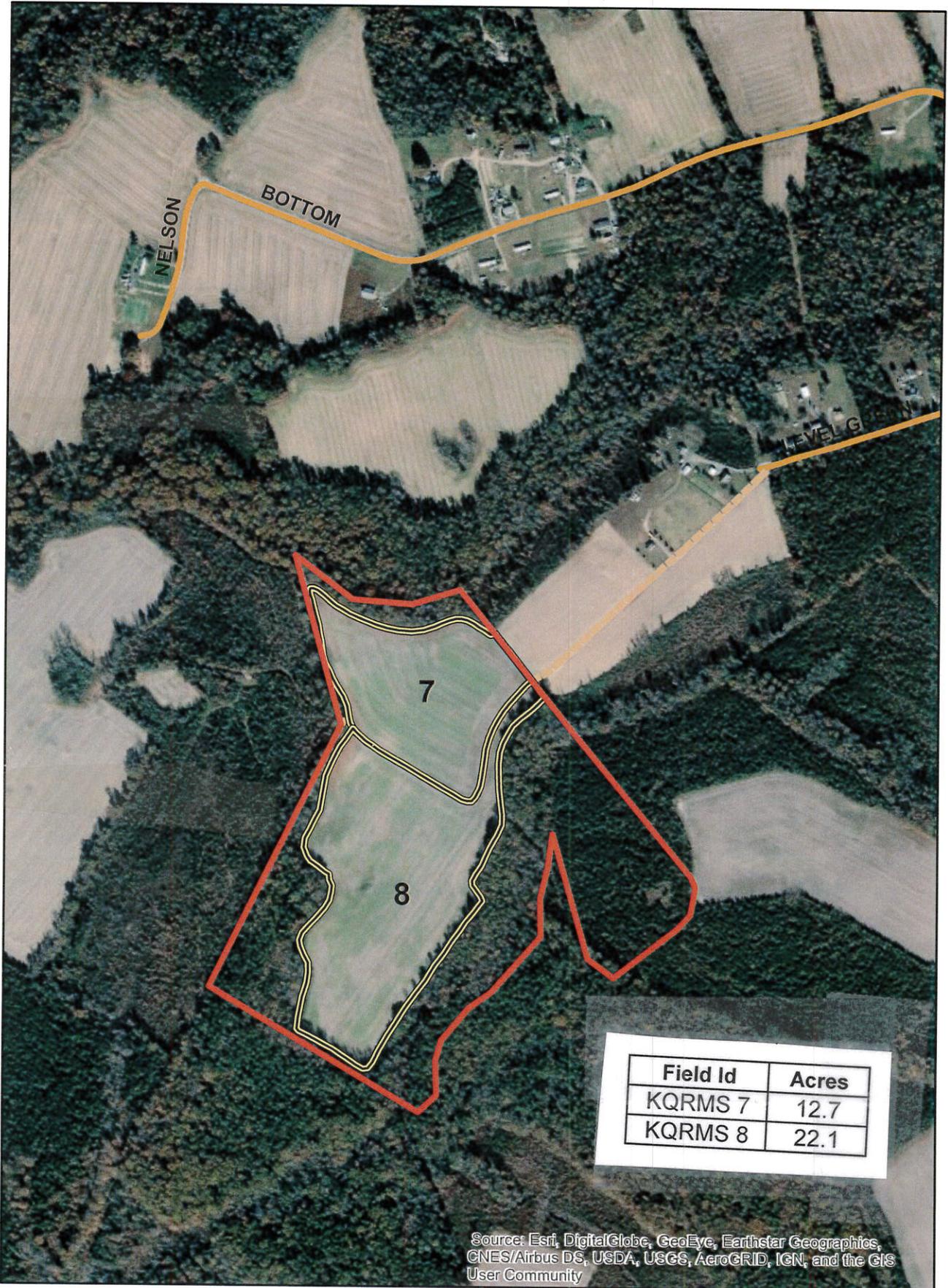
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



6-11-18

AERIAL MAP

1 in = 660 feet



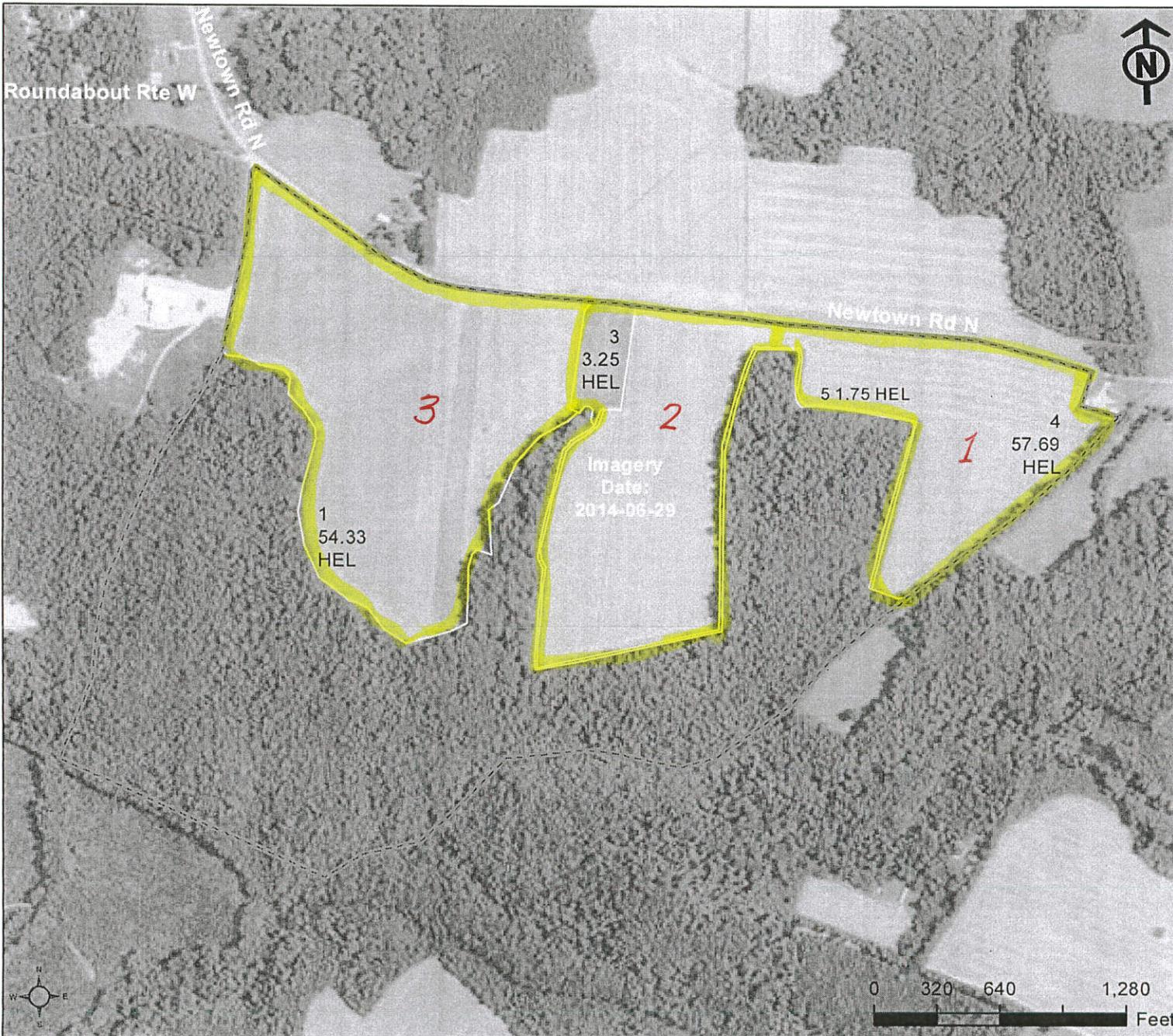
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



6-11-18

AERIAL MAP

1 in = 660 feet



Farm 2928

Tract 2528

2016 Program Year

Map Created November 25, 2015

Legend

Tract Boundary

Wetland Determination Identifiers

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

Tract Cropland Total: 117.02 acres

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1-3

April 21, 2006

Farm Number: 2929
Tract Number: 1647



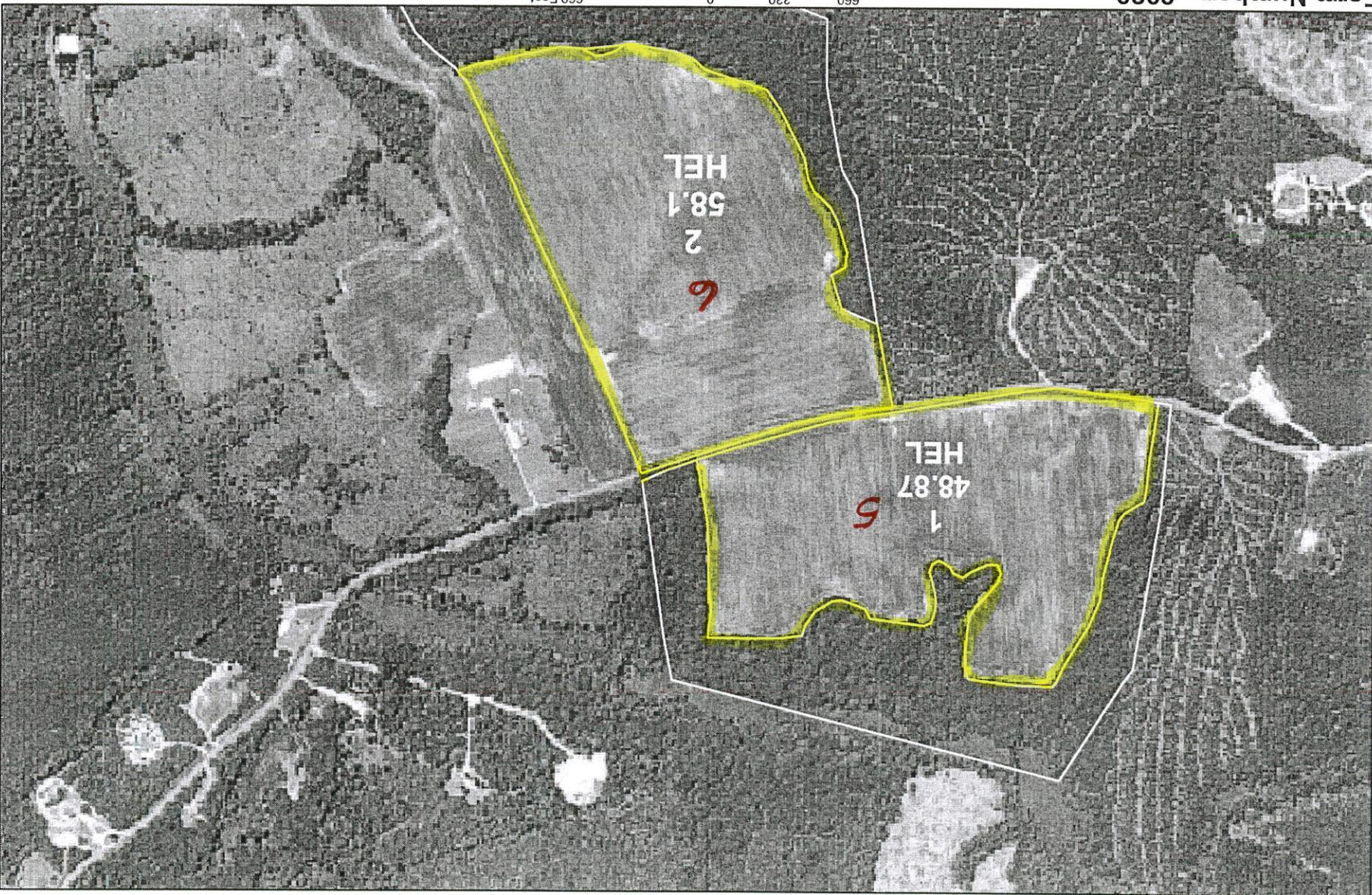
AGRICULTURE
UNITED STATES DEPARTMENT OF

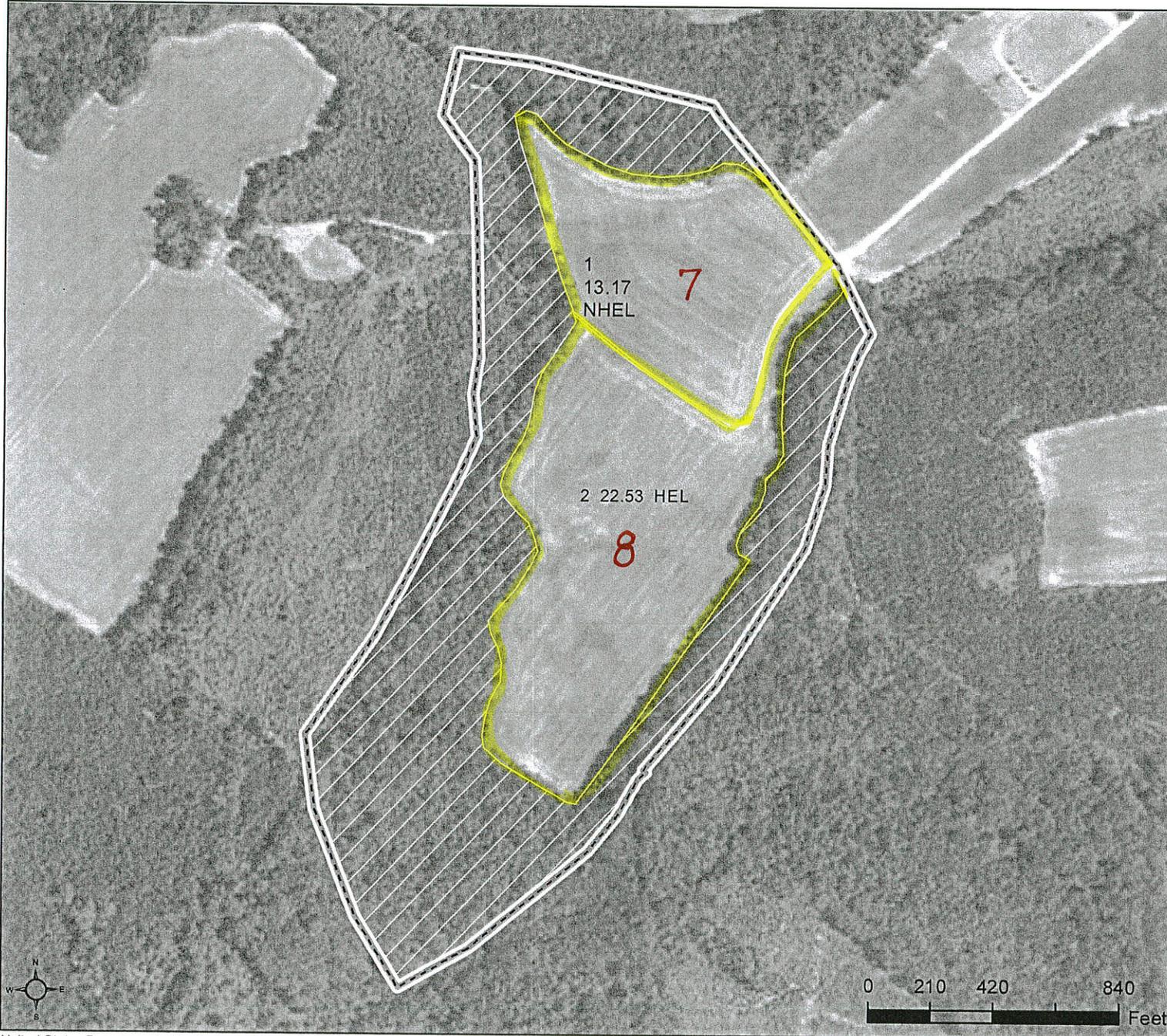
King & Queen County, Virginia

1 inch equals 660 feet



Farm Service Agency
772 Richmond Beach Road
Tappahannock, VA 22560
(804) 443-3571





2018 Program Year

Map Created January 11, 2018

Common Land Unit

- Non-Cropland
- Cropland
- Tract Boundary

Wetland Determination Identifiers

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

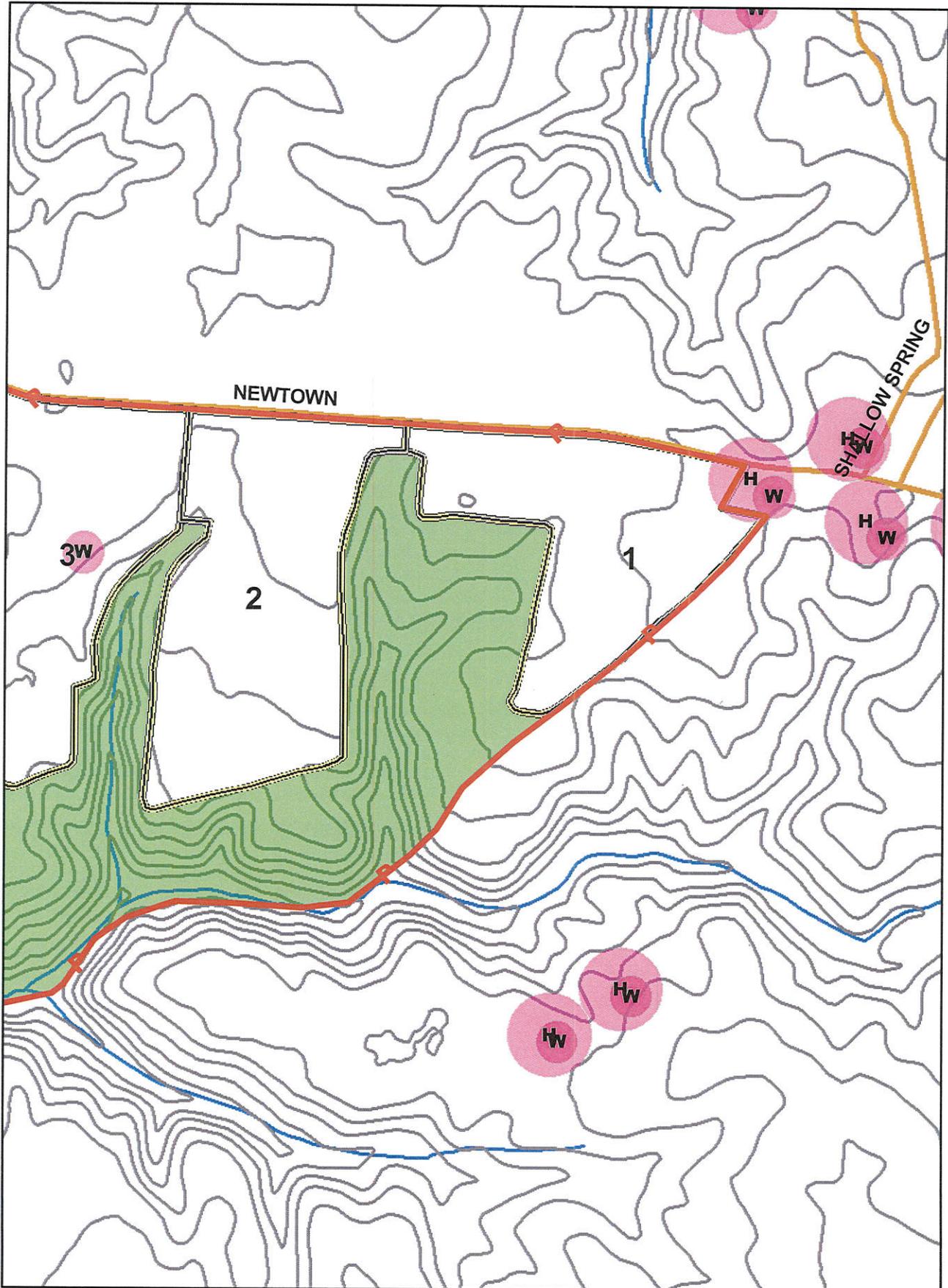
Tract Cropland Total: 35.70 acres

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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

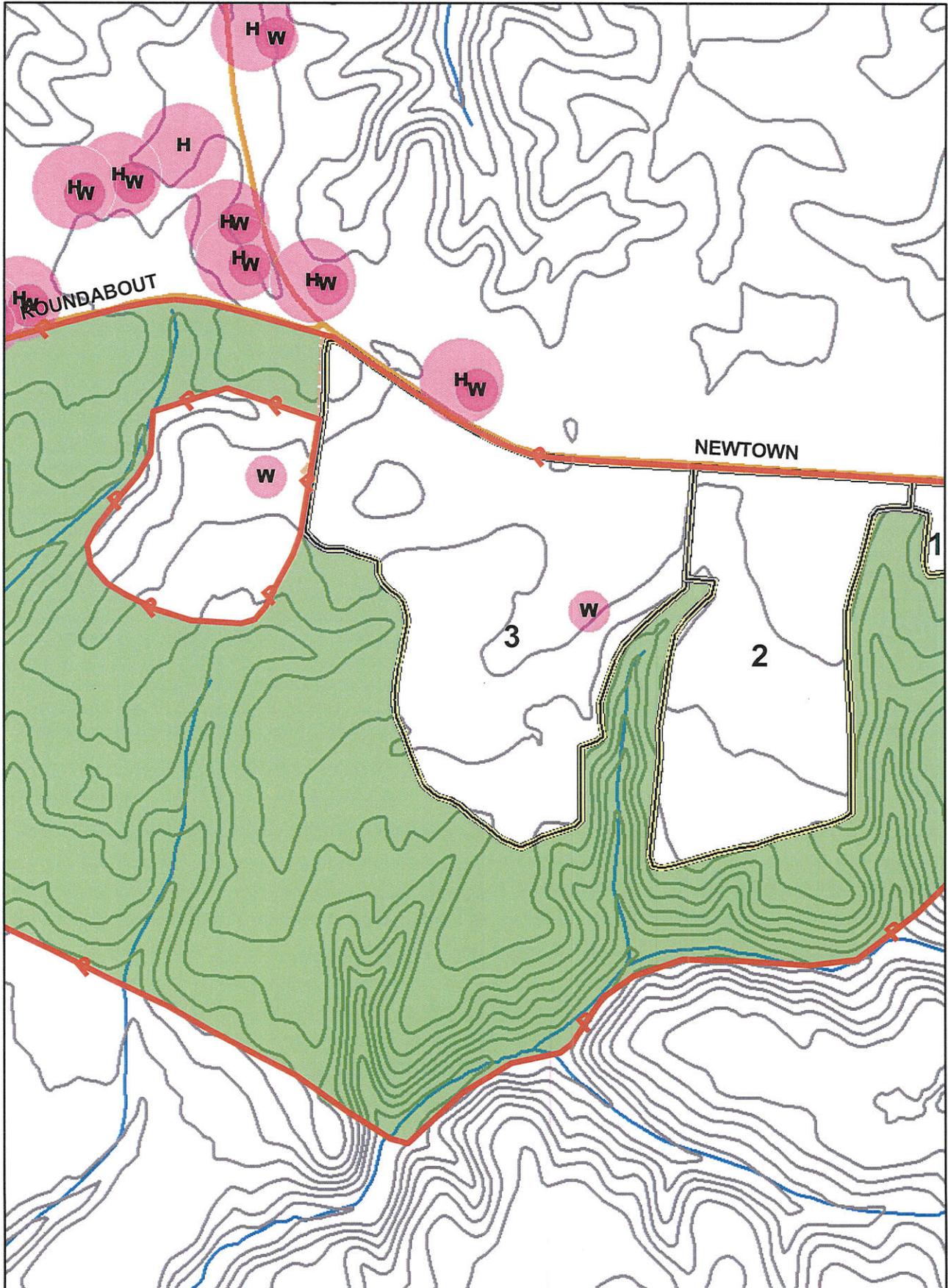
*Buffer can be reduced or waived upon written consent from landowner.



6-11-18

SITE PLAN

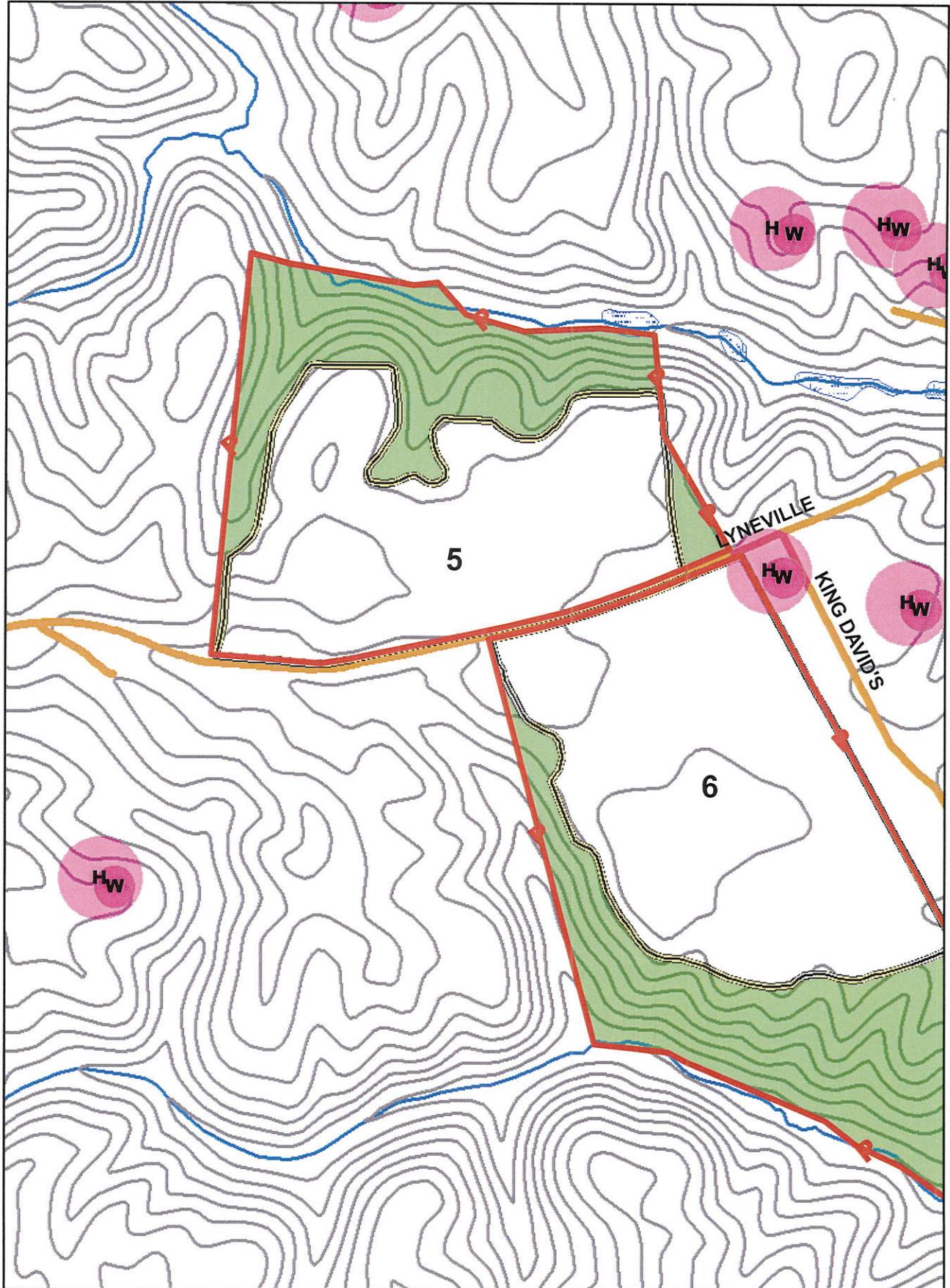
1 in = 660 feet



6-11-18

SITE PLAN

1 in = 660 feet

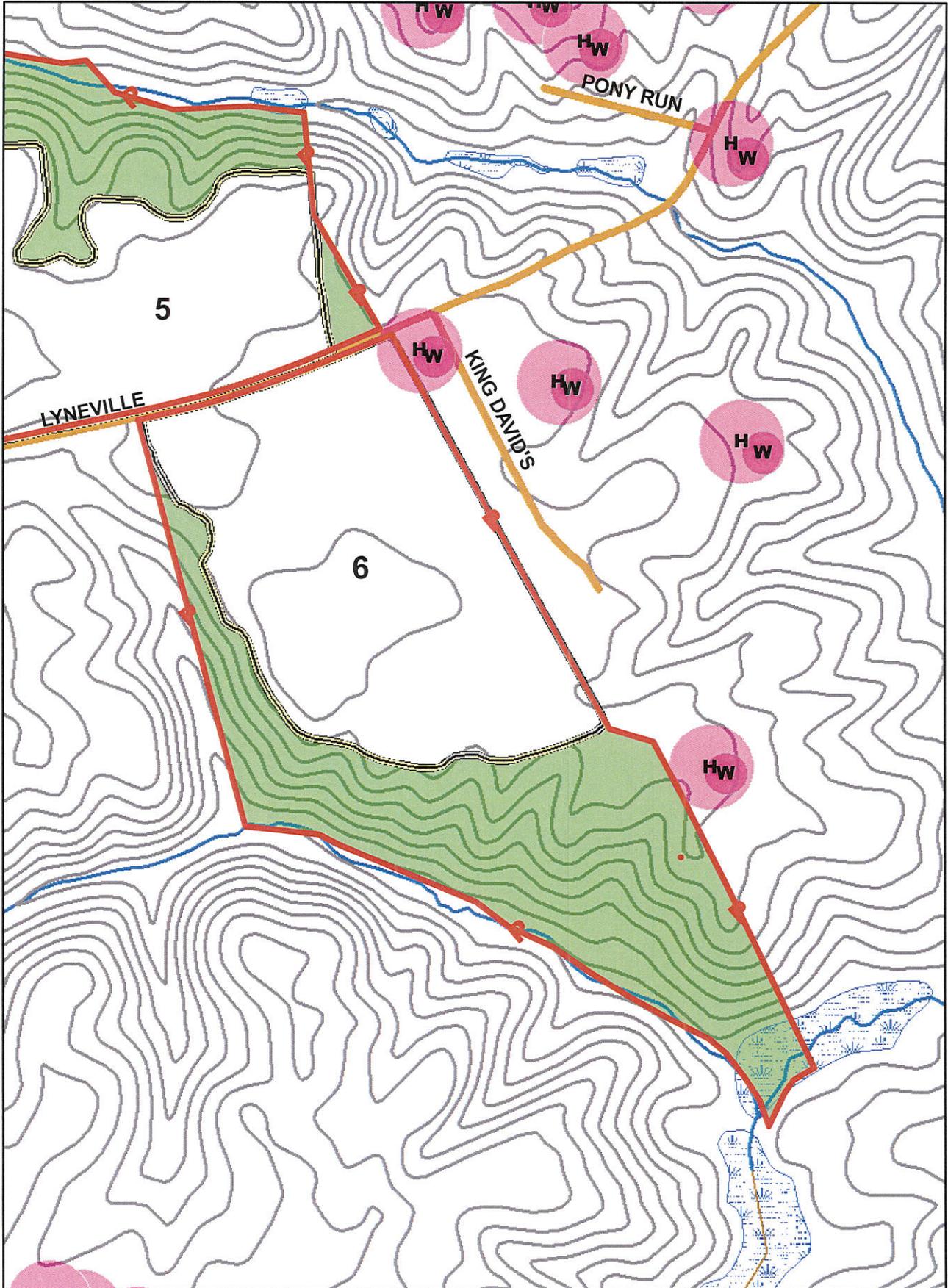


6-11-18

SITE PLAN

1 in = 660 feet



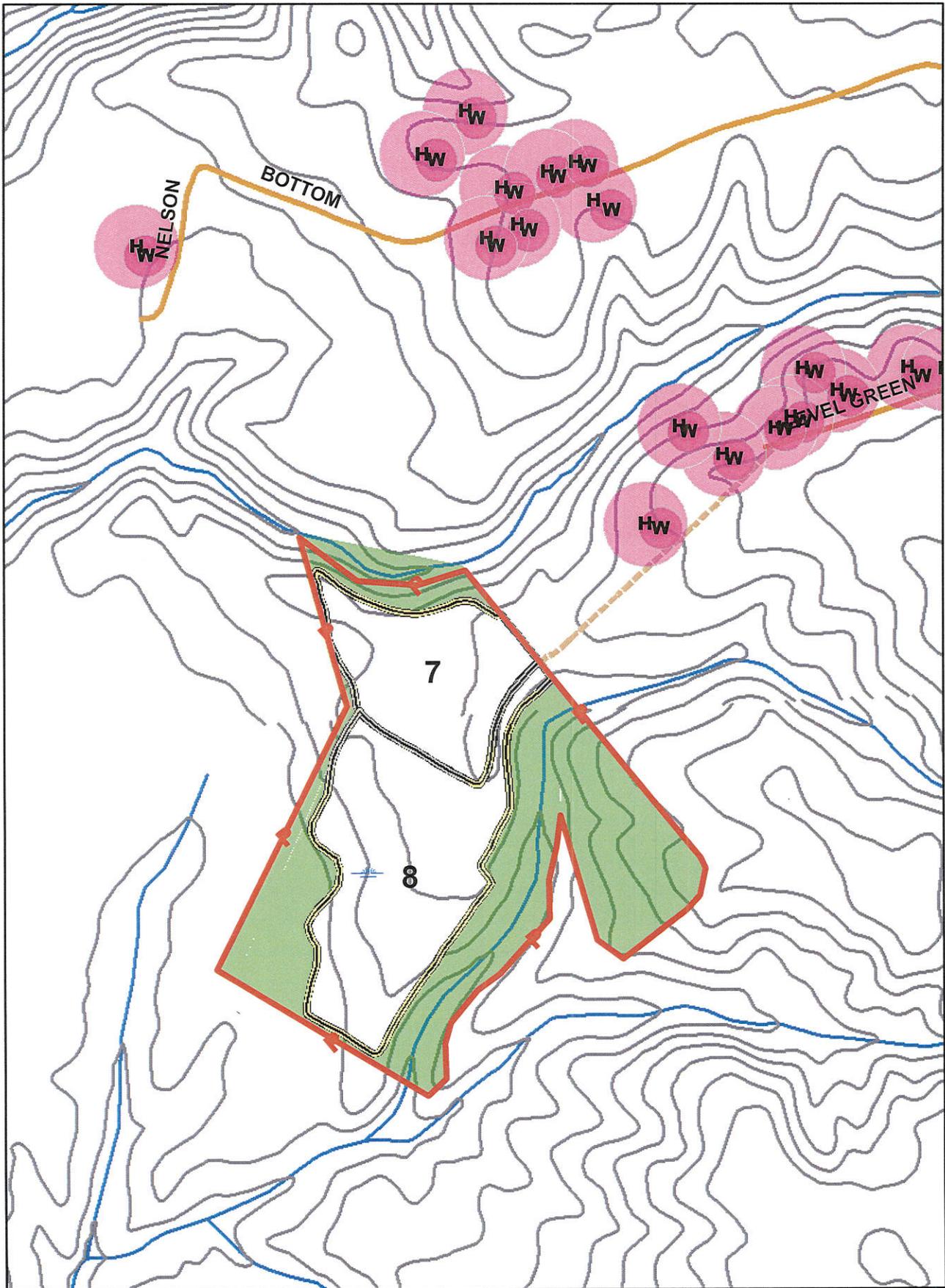


6-11-18

SITE PLAN

1 in = 660 feet

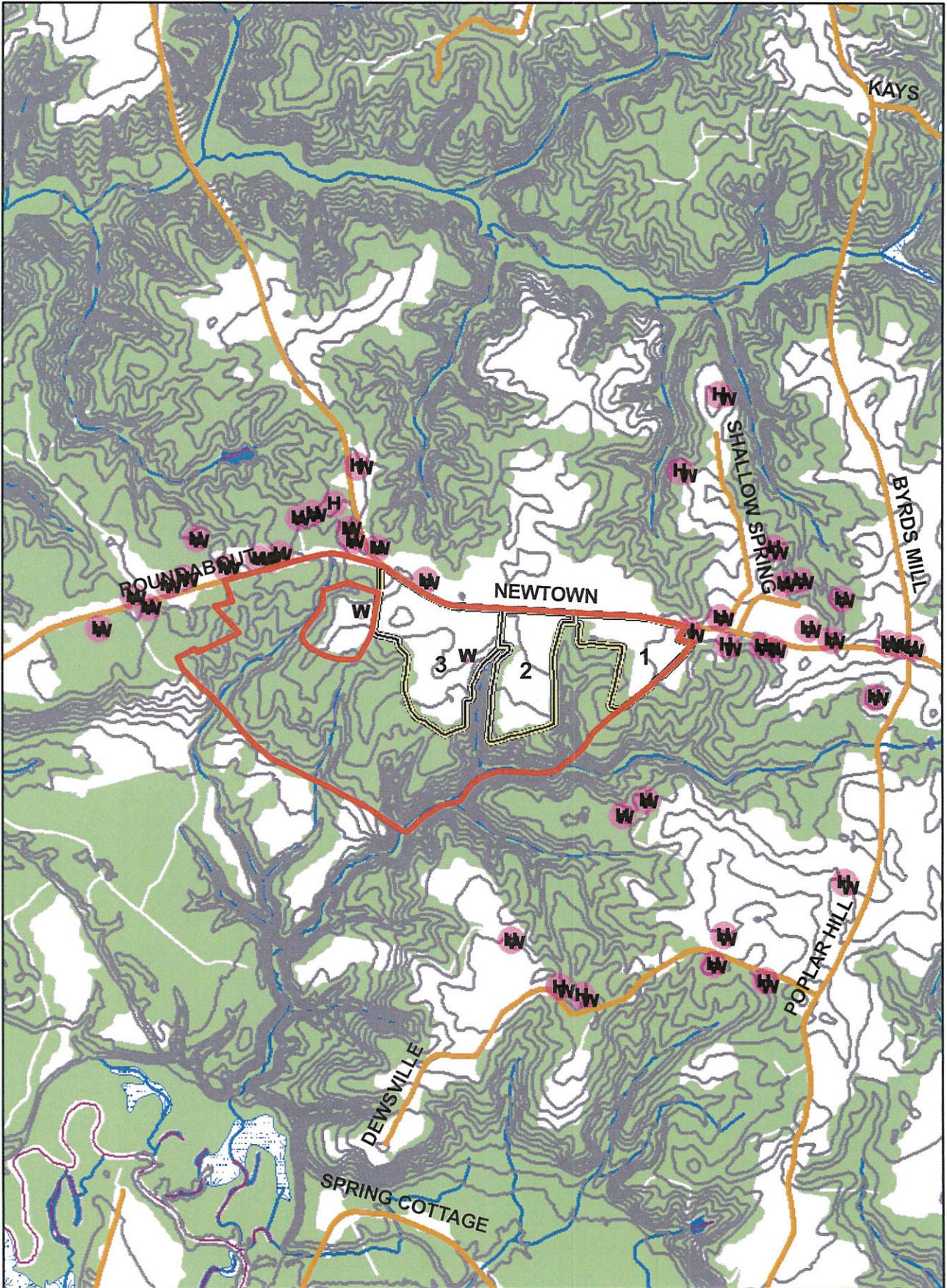




6-11-18

SITE PLAN

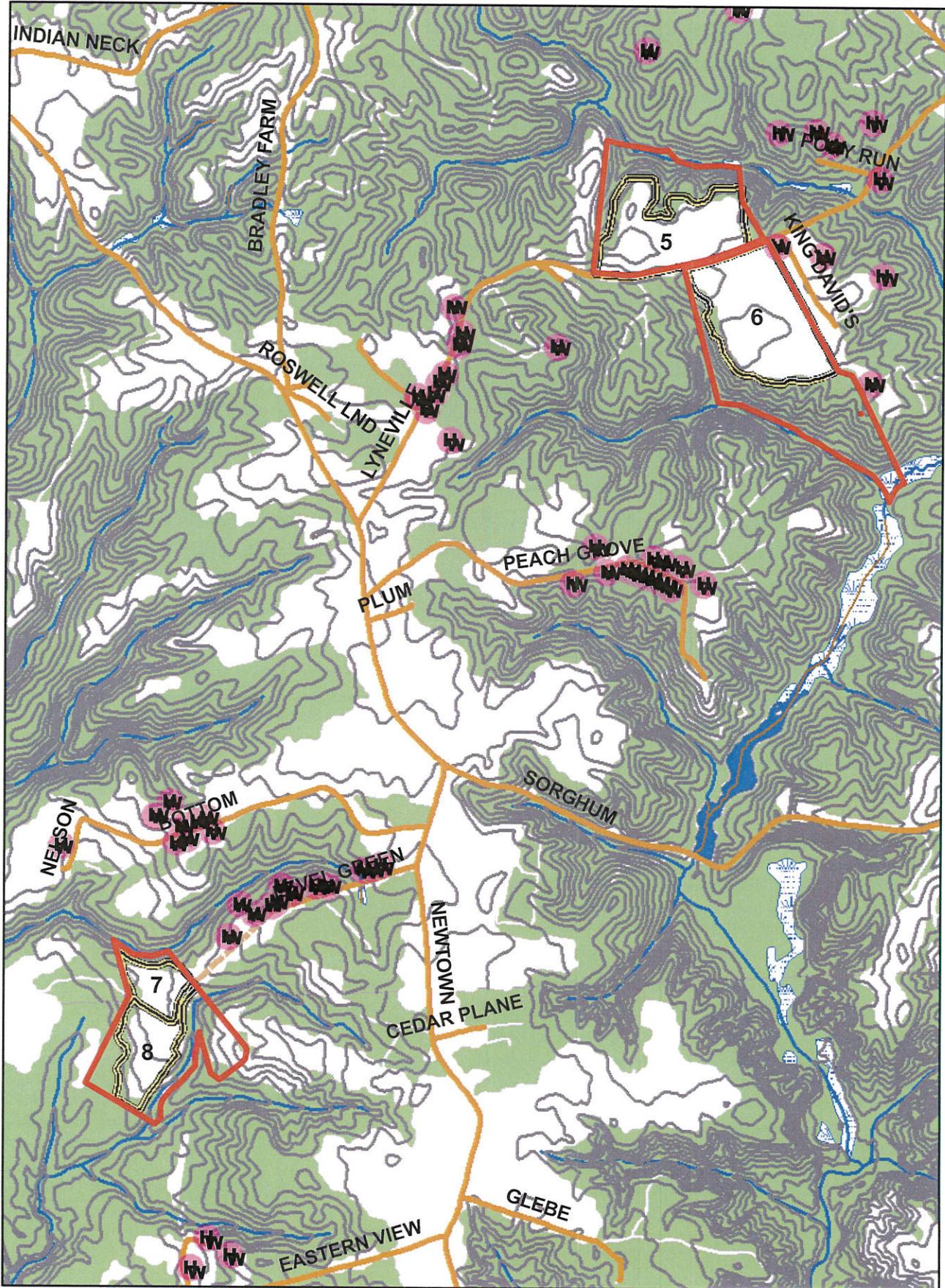
1 in = 660 feet



6-11-18

TOPOGRAPHIC MAP

1 in = 2,000 feet



6-11-18

TOPOGRAPHIC MAP

1 in = 2,000 feet