

**LAND APPLICATION SITE**

**ASHLEY LOGGING CO.**

**KQALC 2-7**

**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 3-13-18 between Ashley Logging Co. Inc. 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>1623-137L-1274</u>			
<u>1623-160R-719, 720, 721, 722</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

Ashley Logging Co. Inc.

Michael Ashley Owner

Landowner - Printed Name, Title

[Signature]

Signature

24123 The Trail

Matteoni, Va. 23110

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: Ashley Logging Co. Inc  
Michael Ashley

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).

Michael Ashley  
Landowner's Signature

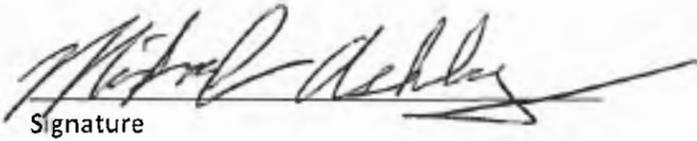
3-13-18  
Date

T. O. Lanza Jr  
Farm Operator Signature

P.O. Box 126  
King & Queen Courthouse Va.  
Mailing Address & Phone Number 23085

Ashley Hopping Co. Inc.  
Title of Landowner Michael Ashley

Power, Capacity and Authority. Such Party has the right, power, legal capacity, and authority to execute and enter into this Agreement and to execute all other documents and perform all other acts as may be necessary in connection with the performance of this Agreement.

  
Signature

Michael Ashley  
Printed Name of Signer

3-13-18  
Date

**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 3-13-18 between The Dorothy T. Ashley Trust referred to here as "Landowner", and Recyc Systems, Inc, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

The Landowner is the owner of record of the real property located in 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>1423-137L-1274A</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

The Dorothy T. Ashley Trust  
 Landowner - Printed Name, Title

Dorothy T. Ashley, Trustee  
 Signature

26712 The Trail  
Mathaponi Va. 23110  
 Mailing Address & Phone Number  
 Tel#

**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: The Dorothy T. Ashley Trust

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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  - 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).

Dorothy T. Ashley, Trustee  
Landowner's Signature

3-13-18

Date

T. O. Longest Jr  
Farm Operator Signature

P.O. Box 126  
King & Queen Courthouse, Va.  
Mailing Address & Phone Number 23086

The Dorothy T. Ashley Trust  
Title of Landowner

Power, Capacity and Authority. Such Party has the right, power, legal capacity, and authority to execute and enter into this Agreement and to execute all other documents and perform all other acts as may be necessary in connection with the performance of this Agreement.

Dorothy T. Ashley  
Signature

Dorothy T. Ashley  
Printed Name of Signer

3-13-18  
Date

**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 3-13-18 between Dorothy T. Ashley 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:**

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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>1623-137R-1225</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       Yes     No

Dorothy T. Ashley (Owner)  
 Landowner - Printed Name, Title

Dorothy T. Ashley  
 Signature

26712 The Trail  
Mattaponi, Va. 23110  
 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.

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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)

[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: Dorothy T. Ashley

Landowner Site Management Requirements:

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4. Livestock Access Restrictions:
 

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).

Dorothy T. Ashley  
Landowner's Signature

3-13-18  
Date

T. O. Longest Jr  
Farm Operator Signature

P.O. Box 126  
King & Queen Courthouse, Va.  
Mailing Address & Phone Number 23085

Dorothy T. Ashley  
Title of Landowner

**Power, Capacity and Authority.** Such Party has the right, power, legal capacity, and authority to execute and enter into this Agreement and to execute all other documents and perform all other acts as may be necessary in connection with the performance of this Agreement.

Dorothy T. Ashley  
Signature

Dorothy T. Ashley  
Printed Name of Signer

3-13-18  
Date



# 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			
KQALC 2	51097-00140-0000	42.2	3B Dec.-Apr. 15B Nov.-Apr.	-	-	-	CB 08	1623-160R-720 1623-160R-722	T 406 F 1
KQALC 3	51097-00141-0000	17.5	-	-	-	-	CB 08	1623-160R-721	T 406 F 2, 3
KQALC 4	51097-00142-0000	27.8	15B Nov.-Apr.	-	-	-	CB 08	1623-160R-719	T 406 F 2
KQALC 5	51097-00143-0000	59.2	15B Nov.-Apr. 15C Nov.-Apr.	-	-	-	CB 09	1623-137L-1274 1623-137L-1274A	T 218 F 1
KQALC 6	51097-00144-0000	21.2	5D Nov.-Apr. 15A Nov.-Apr.	-	-	-	CB 09	1623-137R-1225	T 209 F 1, 2, 3
KQALC 7	51097-00145-0000	8.7	5D Nov.-Apr.	-	-	-	CB 09	1623-137R-1225	T 209 F 7
TOTAL ACRES IN SITE		176.6							





www.aeastern.com

# A&L Eastern Laboratories

7621 Whiteplne 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:  
 ASHLEY LOGGING/KQALC  
 KING & QUEEN CO

Submitted By: SD  
 Farm ID:

## SOIL ANALYSIS REPORT

Analytical Method(s):  
 Mehlich 3

Date Received: 11/06/2014 Date Of Analysis: 11/07/2014 Date Of Report: 11/07/2014

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	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
2A	10169	2.0	L	84	111	VH			69	M	30	L	627	H					6.3	6.89	0.4	4.0
2B	10170	2.0	L	85	90	H			65	L	28	L	591	H					6.3	6.89	0.4	3.8
5A	10171	3.1	M	103	62	H			76	L	60	L	1082	H					6.5		0.5	6.6
5B	10172	3.2	M	104	69	H			73	L	61	L	1133	H					6.5		0.5	6.9

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> 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
2A	4.4	6.3	78.4		10.5										
2B	4.4	6.1	77.8		10.4										
5A	3.0	7.6	82.0		7.4										
5B	2.7	7.4	82.1		7.4										

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 McGeary*

Paucic McGeary

Report Number: 16-328-0682

Account Number: 70594



"Every acre... Every year."™

7621 Whitepine Road, Richmond, VA 23237

Main 804-743-9401 • Fax 804-271-6446

www.waypointanalytical.com

Send To: Recyc Systems Inc  
Susan Trumbo  
8455 Whiteshop Road  
Culpeper VA 22701

Grower: Ashley Logging  
K&Q Co

### SOIL ANALYSIS REPORT

Analytical Method(s) SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

Date Received 11/23/2016

Date Of Analysis 11/28/2016

Date Of Report: 11/28/2016

Sample ID Field ID	Lab Number	OM	W/V	ENR	Phosphorus			Potassium	Magnesium	Calcium	Sodium	pH		Acidity	C.E.C
		% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
KQALC 3	24162	1.6 L		80	80 H			38 VL	2 VL	243 H		5.6	6.89	0.4	1.7
KQALC 4	24163	2.7 M		98	40 M			41 L	36 L	549 H		5.9	6.86	0.7	3.9

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts		
	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> 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		
KQALC 3	5.7	1.0	71.5		23.5			3.0 M	30 H						
KQALC 4	2.7	7.7	70.4		17.9			1.8 L	21 H						

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 Waypoint Analytical Virginia Inc.

by: *Paucic McGroary*

Paucic McGroary

Report Number: 16-319-0684

Account Number: 70594



7621 Whitepine Road, Richmond, VA 23237  
 Main 804-743-9401 ° Fax 804-271-6446  
 www.waypointanalytical.com

Send To: Recyc Systems Inc  
 Susan Trumbo  
 8455 Whiteshop Road  
 Culpepper VA 22701

"Every acre. Every year."™

Grower: Ashley Logging

### SOIL ANALYSIS REPORT

Analytical Method(s) SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

Date Received: 11/14/2016

Date Of Analysis: 11/15/2016

Date Of Report: 11/15/2016

Sample ID Field ID	Lab Number	OM	W/V	ENR	Phosphorus			Potassium	Magnesium	Calcium	Sodium	pH		Acidity	C.E.C		
		% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g		
KQALC 6	15910	2.1 L		86	87	H		87	M	63	M	640	H	6.4	6.89	0.4	4.3

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts
	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> 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
KQALC 6	5.2	12.2	74.4		9.3			2.2	L	10	M		

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 Waypoint Analytical Virginia, Inc

by *Paucic McGroary*

Paucic McGroary

Date Received: 11/14/2016

Date Of Report: 11/15/2016

### SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P <sub>2</sub> O <sub>5</sub> lb/A	Potash K <sub>2</sub> O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
KQALC 6	Adjust pH to 6.5	0	0.8				17			2			

**Comments:**

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Report Number: 16-321-0646

Account Number: 70594



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Main 804-743-9401 ° Fax 804-271-6446  
www.waypointanalytical.com

Send To: Recyc Systems Inc  
Susan Trumbo  
8455 Whiteshop Road  
Culpeper VA 22701

Grower: Ashley Logging Co  
King & Queen Co

Submitted By: SD

### SOIL ANALYSIS REPORT

Analytical Method(s): SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

Date Received: 11/16/2016 Date Of Analysis: 11/17/2016 Date Of Report: 11/17/2016

Sample ID Field ID	Lab Number	OM	W/V	ENR	Phosphorus			Potassium	Magnesium	Calcium	Sodium	pH		Acidity	C.E.C
		% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
7 KQALC	18395	16 L		75	39 M			50 L	92 H	717 H		6.9		0.1	4.6

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Sats
	K %	Mg %	Ca %	Na %	H %	NO <sub>3</sub> 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
7 KQALC	2.8	16.7	77.9		2.2			1.2 L	19 M				

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 Waypoint Analytical Virginia, Inc

by *Paucic McGroary*

Paucic McGroary

Date Received: 11/16/2016

Date Of Report: 11/17/2016

### SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P <sub>2</sub> O <sub>5</sub> lb/A	Potash K <sub>2</sub> O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
7 KQALC	Adjust pH to 6.5	0	0.0				0			2			

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made"

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THE PLANNER IS NOT STATE CERTIFIED

**Nutrient Management Plan Balance Sheet**  
**(Spring, 2018-Summer, 2020)**  
**Ashley Logging Co.**  
**Planner: John Doe**

Tract: 209      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 - apld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes
1, 2, 3/KQALC 6(N)	21/21	2018	Wheat (grain)	100-30-60	0/0				100-30-60	N/A		
7/KQALC 7(N)	9/9	2018	Wheat (grain)	100-60-80	0/0				100-60-80	N/A		

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 218

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/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
1/KQALC 5(N)	59/59	2018	Wheat (grain)	100-40-60	0/0				100-40-60	N/A		

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 406 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/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
1/KQALC 2(N)	42/42	2018	Corn (grain)	140-20-80	20/0				120-20-80	N/A		
2, 3/KQALC 3(N)	18/18	2018	Corn (grain)	140-30-100	20/0				120-30-100	N/A		
2/KQALC 4(N)	28/28	2018	Corn (grain)	140-40-80	20/0				120-40-80	N/A		

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

**Soil Test Summary**

<b>Tract</b>	<b>Field</b>	<b>Acre</b>	<b>Date</b>	<b>P2O5</b>	<b>K2O</b>	<b>Lab</b>	<b>Soil pH</b>	<b>Lime Date</b>	<b>rec. lime tons/Ac</b>
209	KQALC 6	21	2016-Fa	H (87 P ppm)	M (87 K ppm)	A&L MIII	6.4		
209	KQALC 7	9	2016-Fa	M (39 P ppm)	L+ (50 K ppm)	A&L MIII	6.9		
218	KQALC 5	59	2014-Fa	H- (62 P ppm)	M (76 K ppm)	A&L MIII	6.5		
406	KQALC 2	42	2014-Fa	H+ (111 P ppm)	M- (69 K ppm)	A&L MIII	6.3		
406	KQALC 3	18	2016-Fa	H (80 P ppm)	L (38 K ppm)	A&L MIII	5.6		
406	KQALC 4	28	2016-Fa	M+ (40 P ppm)	L+ (41 K ppm)	A&L MIII	5.9		

**Field Productivities for Major Crops**

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
209	209/1, 2, 3	KQALC 6	21	Emporia	IIIa	II	III	II	
	209/7	KQALC 7	9	Emporia	IIIa	II	III	II	
218	218/1	KQALC 5	59	Emporia	IIIa	II	III	II	
406	406/1	KQALC 2	42	Emporia	IIIa	II	III	II	
	406/2, 3	KQALC 3	18	Emporia	IIIa	II	III	II	
	406/2	KQALC 4	28	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**        **Spring, 2018 - Summer, 2020**

**Farm Name:**    **Ashley Logging Co.**

Location:        King & Queen

Specialist:      John Doe

N-based Acres: 176.6

P-based Acres: 0.0

**Tract Name:**    **209**

FSA Number:    209

Location:                    King & Queen

**Field Name:**     **KQALC 6**

Total Acres:    21.20    Usable Acres:    21.20

FSA Number:    1, 2, 3

Tract:            209

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-2016	6.4	H(87 P ppm)	M(87 K ppm)	A&L MIII	

### **Soils:**

PERCENT	SYMBOL	SOIL SERIES
73	4B	Emporia
11	4C	Emporia
2	5D	Emporia Slagle

12            15A    Slagle  
2            11A    Pits, gravel

**Field Warnings:**

**Field Name:**        **KQALC 7**  
Total Acres:    8.70    Usable Acres:    8.70  
FSA Number:    7  
Tract:            209  
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-2016	6.9	M(39 P ppm)	L+(50 K ppm)	A&L MIII	

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
91	4B	Emporia
9	5D	Emporia Slagle

**Field Warnings:**

**Tract Name:**    **218**  
FSA Number:    218  
Location:            King & Queen

**Field Name:**        **KQALC 5**  
Total Acres:    59.20    Usable Acres:    59.20  
FSA Number:    1  
Tract:            218

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	6.5	H-(62 P ppm)	M(76 K ppm)	A&L MIII	

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
6	15B	Slagle
21	15C	Slagle
33	4A	Emporia
40	4B	Emporia

**Field Warnings:**

**Tract Name:** 406  
FSA Number: 406  
Location: King & Queen

**Field Name:** KQALC 2  
Total Acres: 42.20 Usable Acres: 42.20  
FSA Number: 1  
Tract: 406  
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	6.3	H+(111 P ppm)	M-(69 K ppm)	A&L MIII	

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
4	3B	Craven
16	4A	Emporia
54	4B	Emporia
2	5D	Emporia Slagle
24	15B	Slagle

**Field Warnings:**

**Field Name:** KQALC 3

Total Acres: 17.50 Usable Acres: 17.50

FSA Number: 2, 3

Tract: 406

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-2016	5.6	H(80 P ppm)	L(38 K ppm)	A&L MIII	

**Soils:**

PERCENT	SYMBOL	SOIL SERIES
16	4A	Emporia
74	4B	Emporia
2	4C	Emporia
8	5D	Emporia Slagle

**Field Warnings:**

**Field Name: KQALC 4**

Total Acres: 27.80 Usable Acres: 27.80

FSA Number: 2

Tract: 406

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-2016	5.9	M+(40 P ppm)	L+(41 K ppm)	A&L MIII

**Soils:**

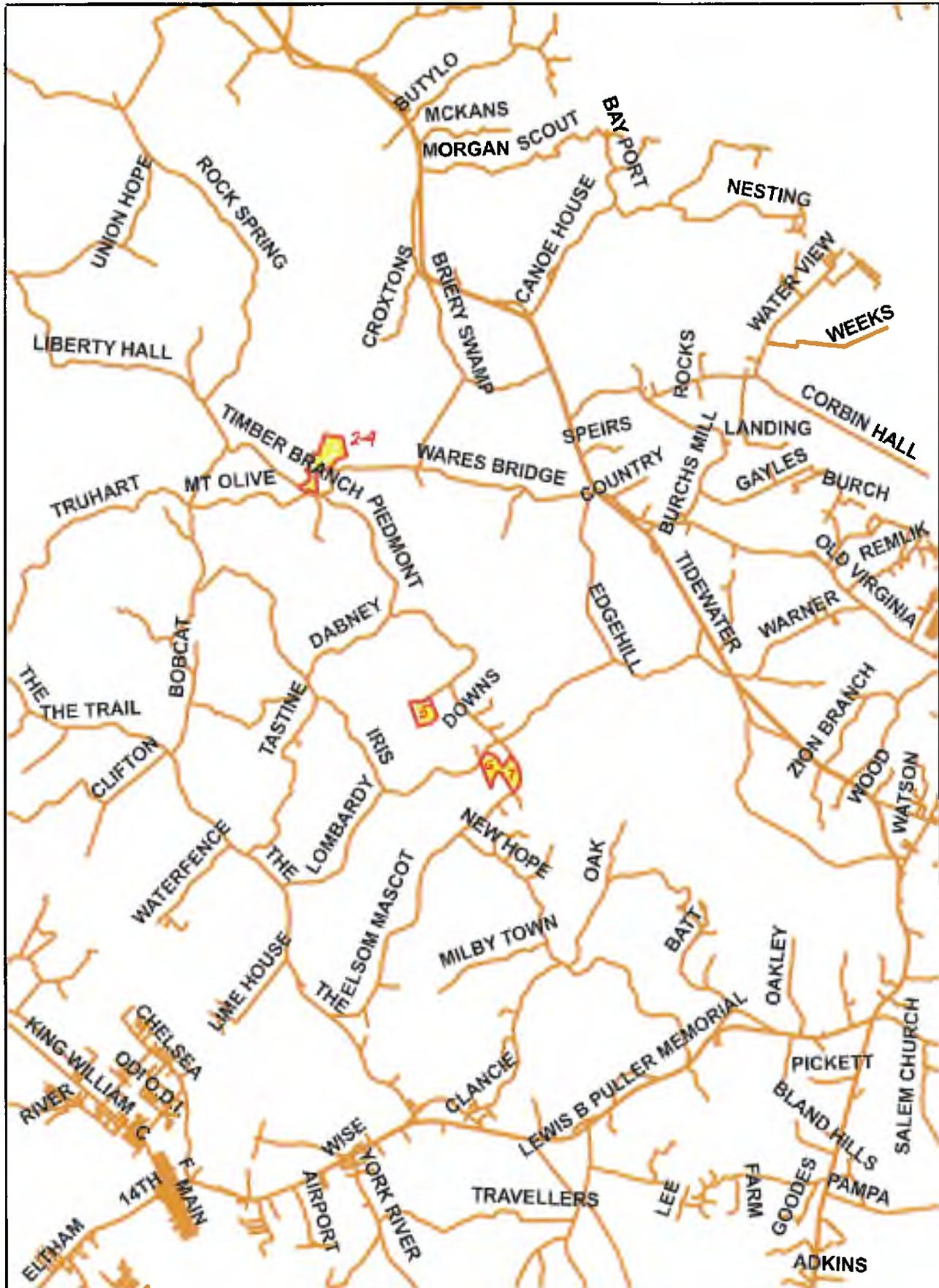
PERCENT	SYMBOL	SOIL SERIES
37	4B	Emporia
23	4C	Emporia
40	15B	Slagle

**Field Warnings:**

**M P**







**VICINITY MAP**

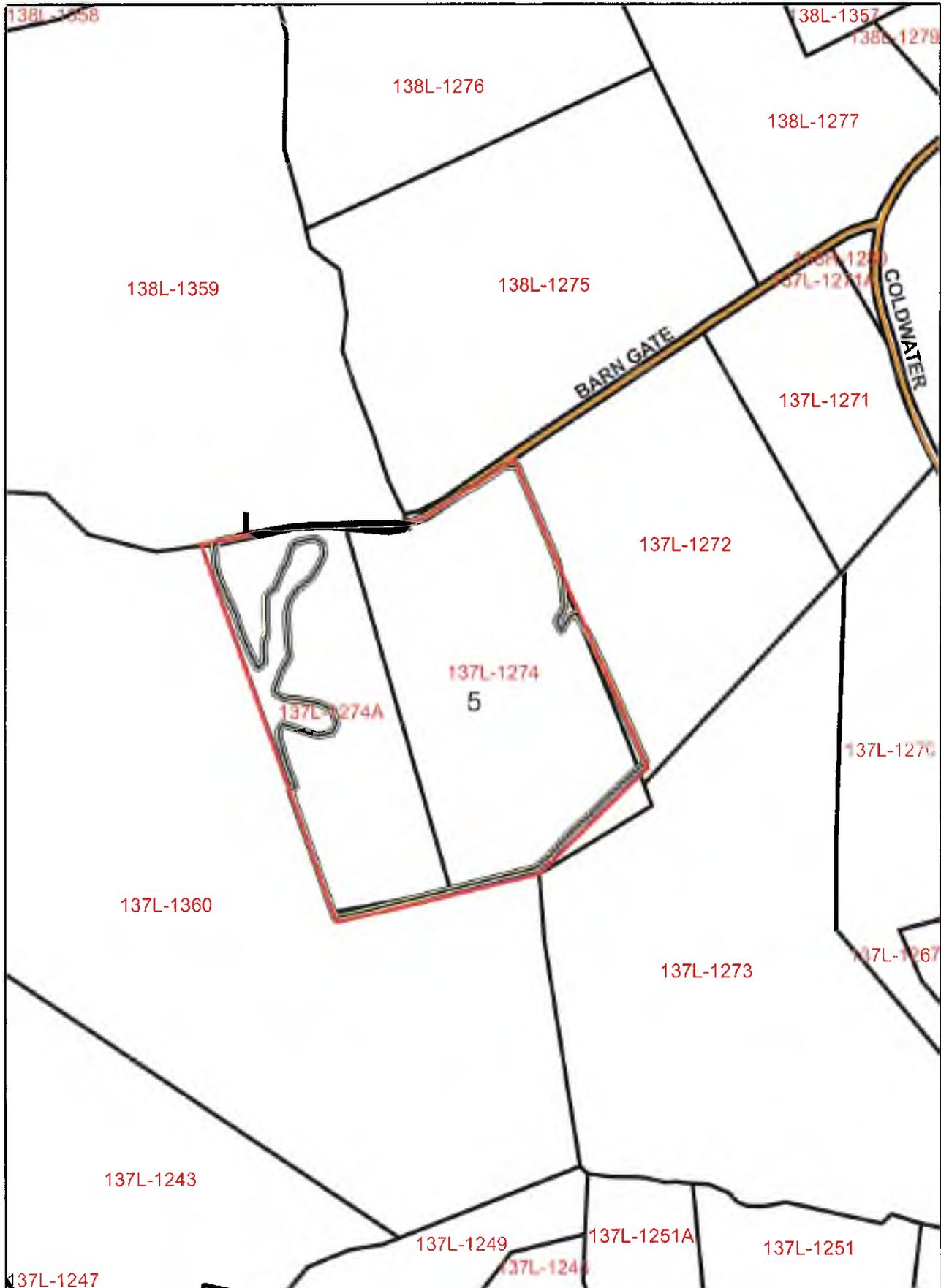
1 in = 2 miles

1-14-18









**TAX MAP**

1 in = 660 feet  
1-14-18



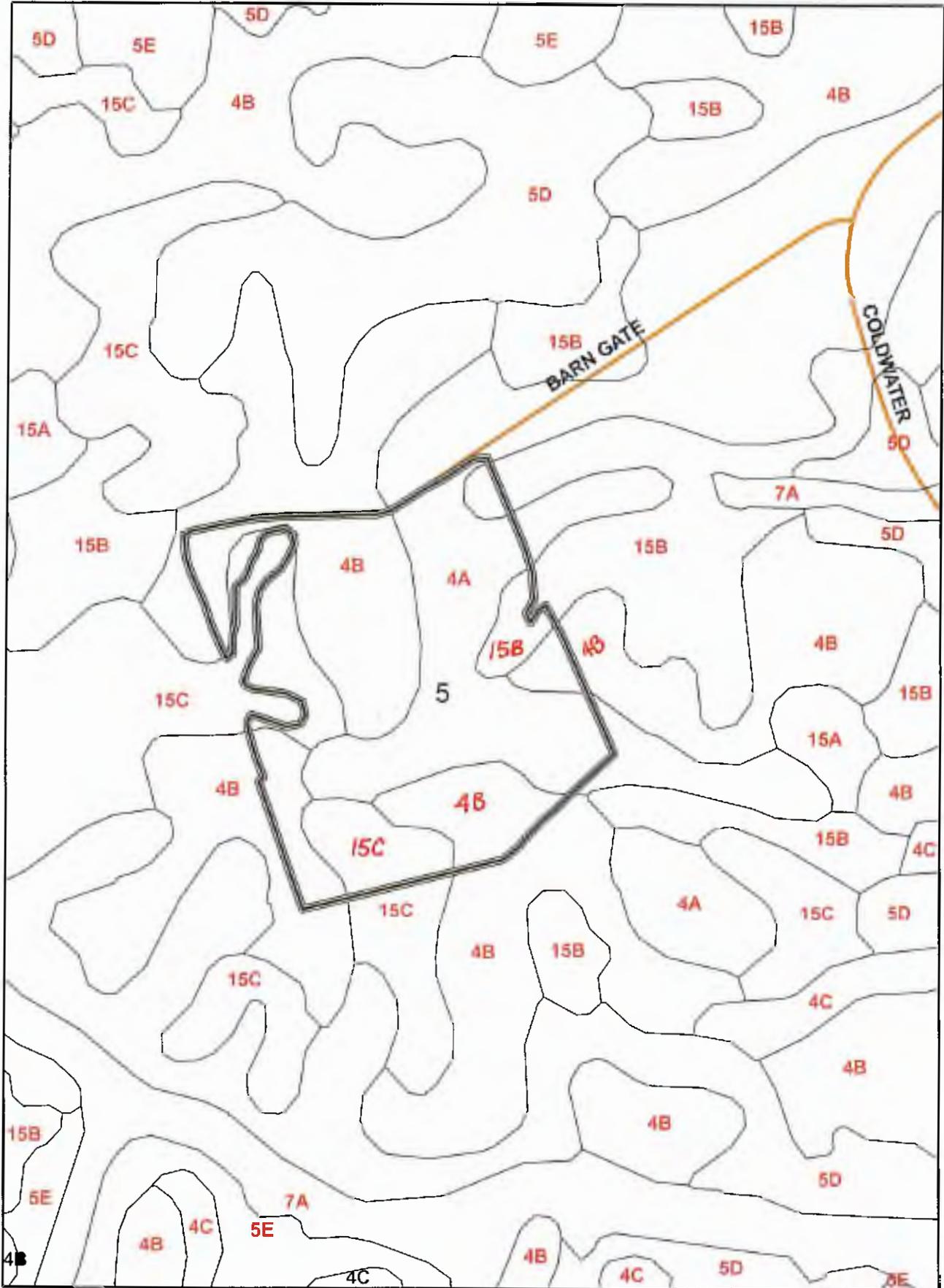
# ADJOINING LANDOWNERS

Ashley Logging Co.

KING & QUEEN COUNTY

Tax Map	Parcel #	Owner Name(s)
1623	137L-1272	Helen Page Garrett et. als.
	137L-1273	Helen Page Garrett et. als.
	137L-1360	Commonwealth of Va. Department of Forestry
	137R-1175-8	John and Brenda Moorefield
	137R-1215	Norman P. and Nancy E. Coggeshall
	137R-1216	Michael H. and Kathy F. Barrow
	137R-1217	Don and Thelma Sheppard
	137R-1218	Robert E. and Nettie C. Gibson Trustees
	137R-1221	Robert E. and Nettie C. Gibson Trustees
	137R-1222	Roger and Paula Peoples
	137R-1222M	Arthur and Annick Ensley
	137R-1222T	Roger and Paula Peoples
	137R-1224	Janice S. Richardson
	137R-1226	Carolyn Kay King Young and Roy D.
	137R-1253	Kenny Wilburne Realty and Const. Co.
	137R-1254A	John F. Turner, Jr. and John F. Turner III
	137R-1254B	Monica Vantrieste
	137R-1254C	Joseph W. McGuire
	137R-1255	Michael and Pamela Burton
	137R-1256A	Michael and Pamela Burton
	138L-1275	George M. Walker, Jr. and Virginia R.
	138L-1359	Cauthorne Properties LLC
	139L-723	P.C. Glenn Estate
	160R-706	Heartwood Forestland Fund VI LP
	160R-712	William L. taliaferro et. als. T/A Agriland
	160R-716	John Franklin Longest
	160R-717	T. O'Niel Longest, Jr. Trustee
	160R-718	John Franklin Longest
	160R-719A	Lower King & Queen Baptist Church
	160R-719C	Dilman and Tracey Andrick
160R-1303A	Wares Baptist Church	
161R-1303	Commonwealth of Va. Department of Forestry	

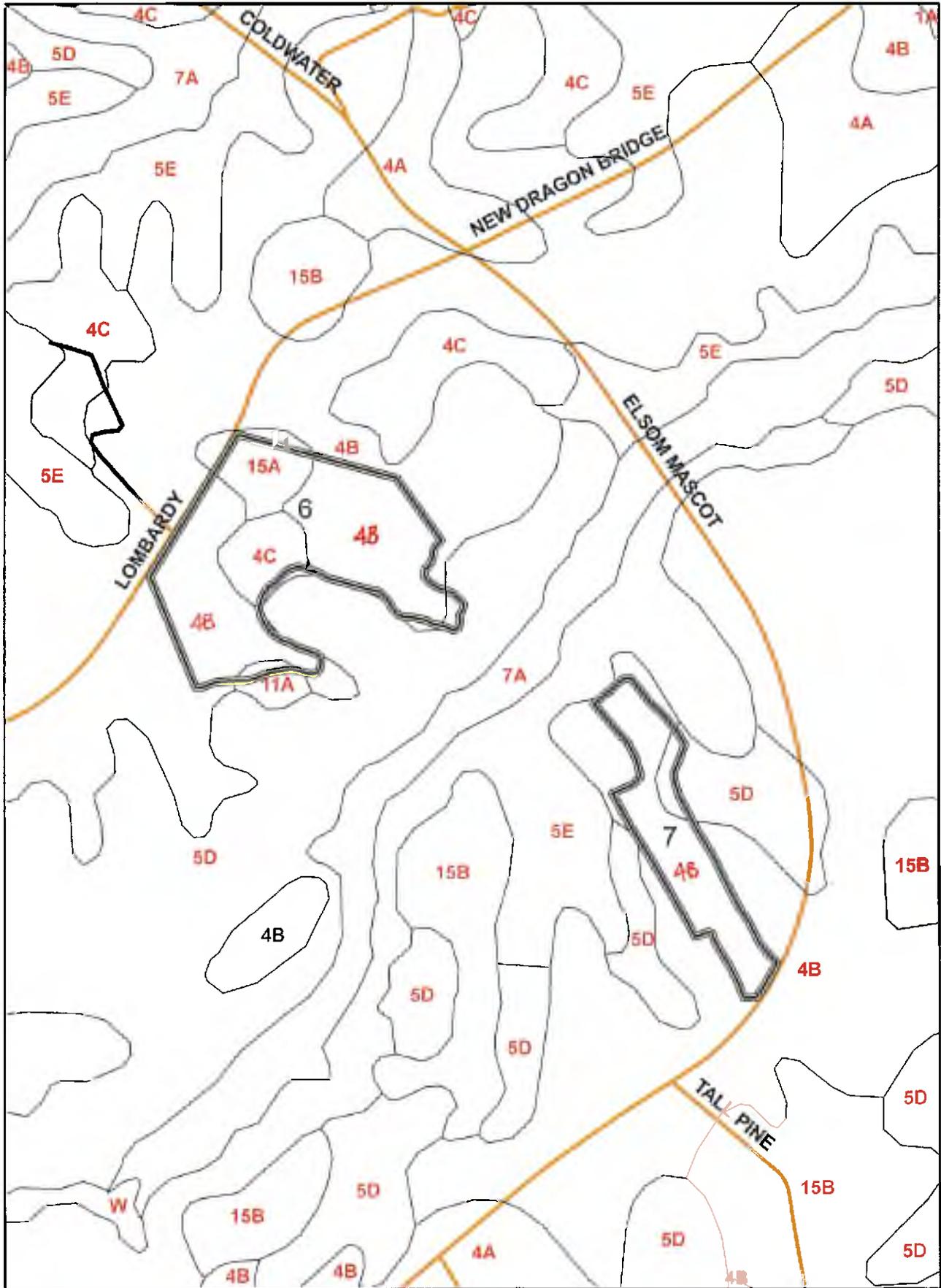




**SOIL MAP**

1 in = 660 feet  
1-14-18

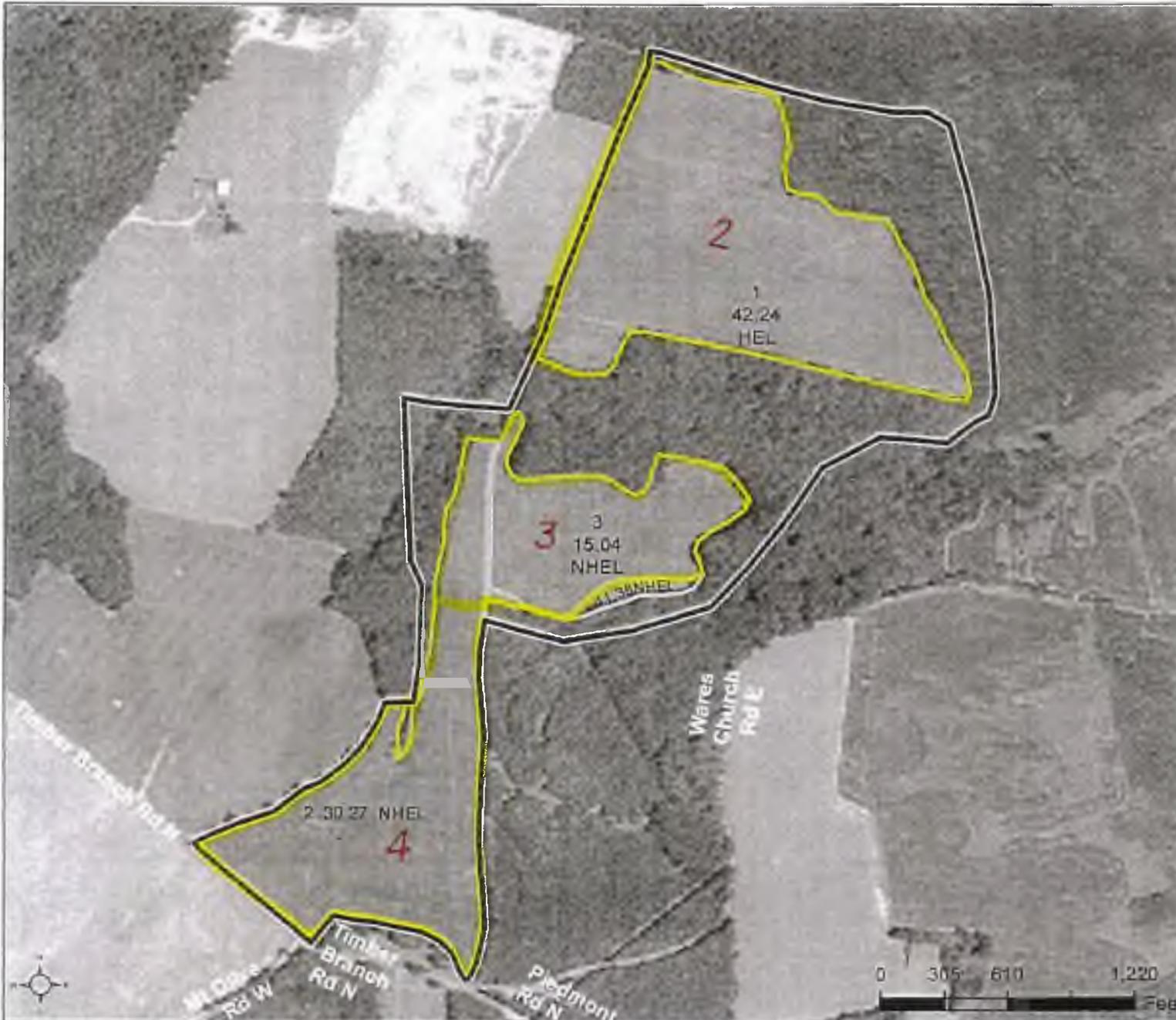




**SOIL MAP**

1 in = 660 feet  
1-14-18

Farm 2982  
Tract 406



2018 Program Year  
Map Created July 31, 2017

**Common Land Unit**  
Common Land Unit  
rcl\_l\_va057\_va099\_va101  
Tract Boundary

**Wetland Determination Identifiers**

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

Tract Cropland Total: 88.93 acres

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Farm 2982  
Tract 218



2018 Program Year  
Map Created July 31, 2017

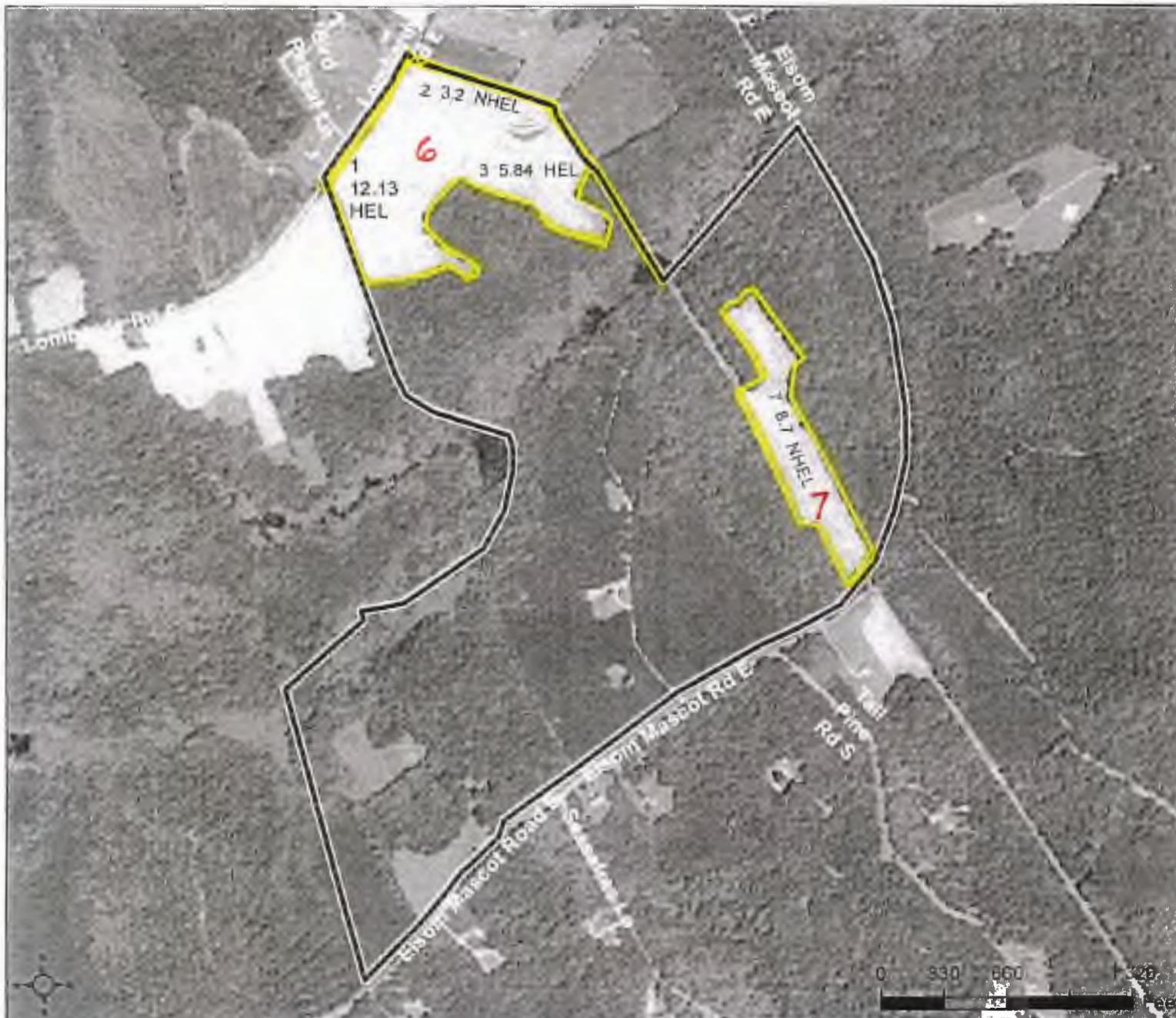
**Common Land Unit**  
Common Land Unit  
rcl\_l\_va057\_va099\_va101  
Tract Boundary

**Wetland Determination Identifiers**  
● Restricted Use  
▽ Limited Restrictions  
■ Exempt from Conservation  
■ Compliance Provisions

Tract Cropland Total 59.20 acres

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**Farm 2982**  
**Tract 209**



2018 Program Year  
Map Created July 31, 2017

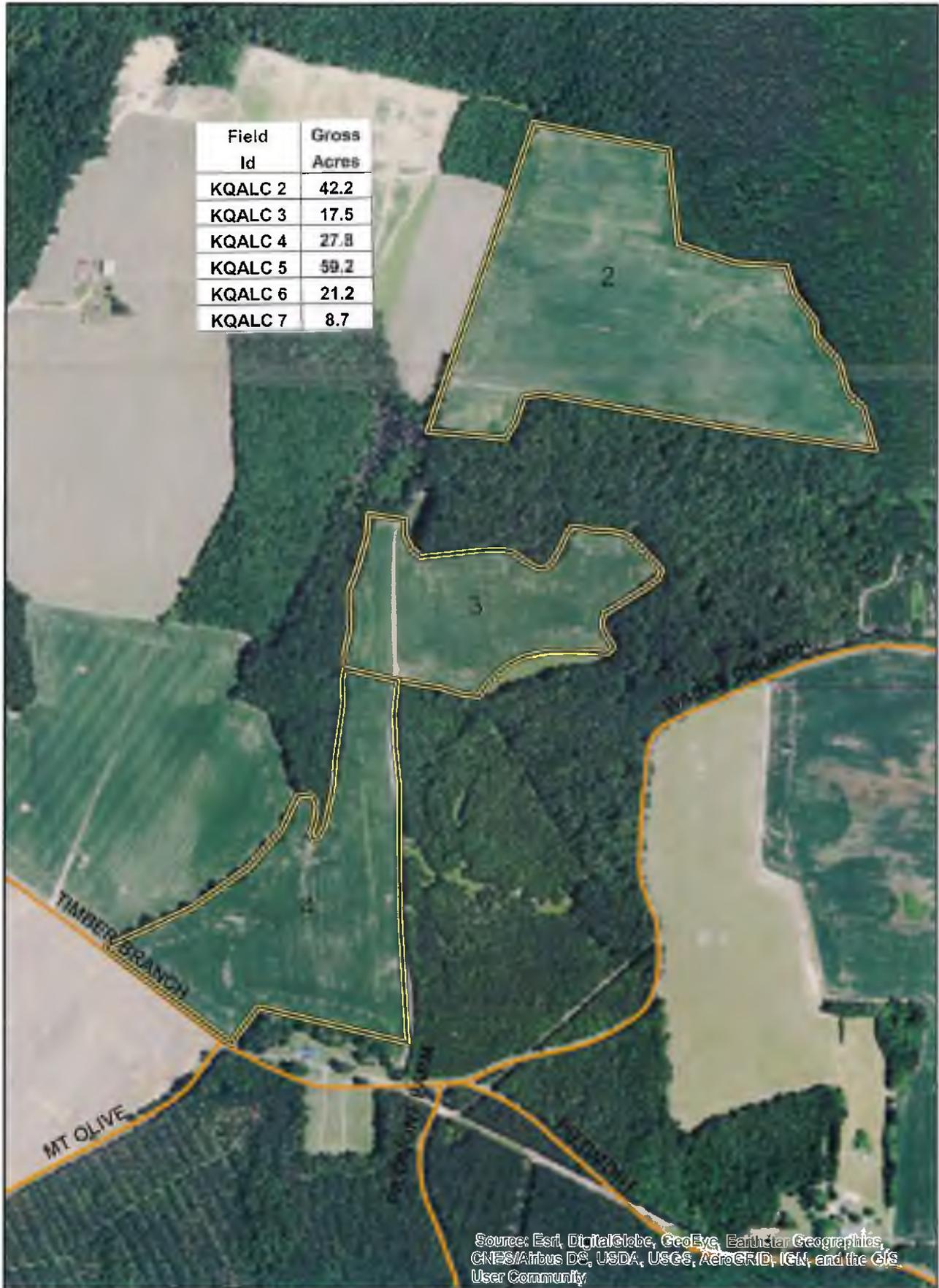
**Common Land Unit**  
Common Land Unit  
rcl\_i\_va057\_va099\_va101  
Tract Boundary

**Wetland Determination Identifiers**

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

Tract Cropland Total 29.87 acres

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AERIAL MAP

1 in = 660 feet

1-14-18



Field Id	Gross Acres
KQALC 2	42.2
KQALC 3	17.5
KQALC 4	27.8
KQALC 5	59.2
KQALC 6	21.2
KQALC 7	8.7



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



# AERIAL MAP

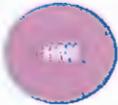
1 in = 665 feet  
1-14-18



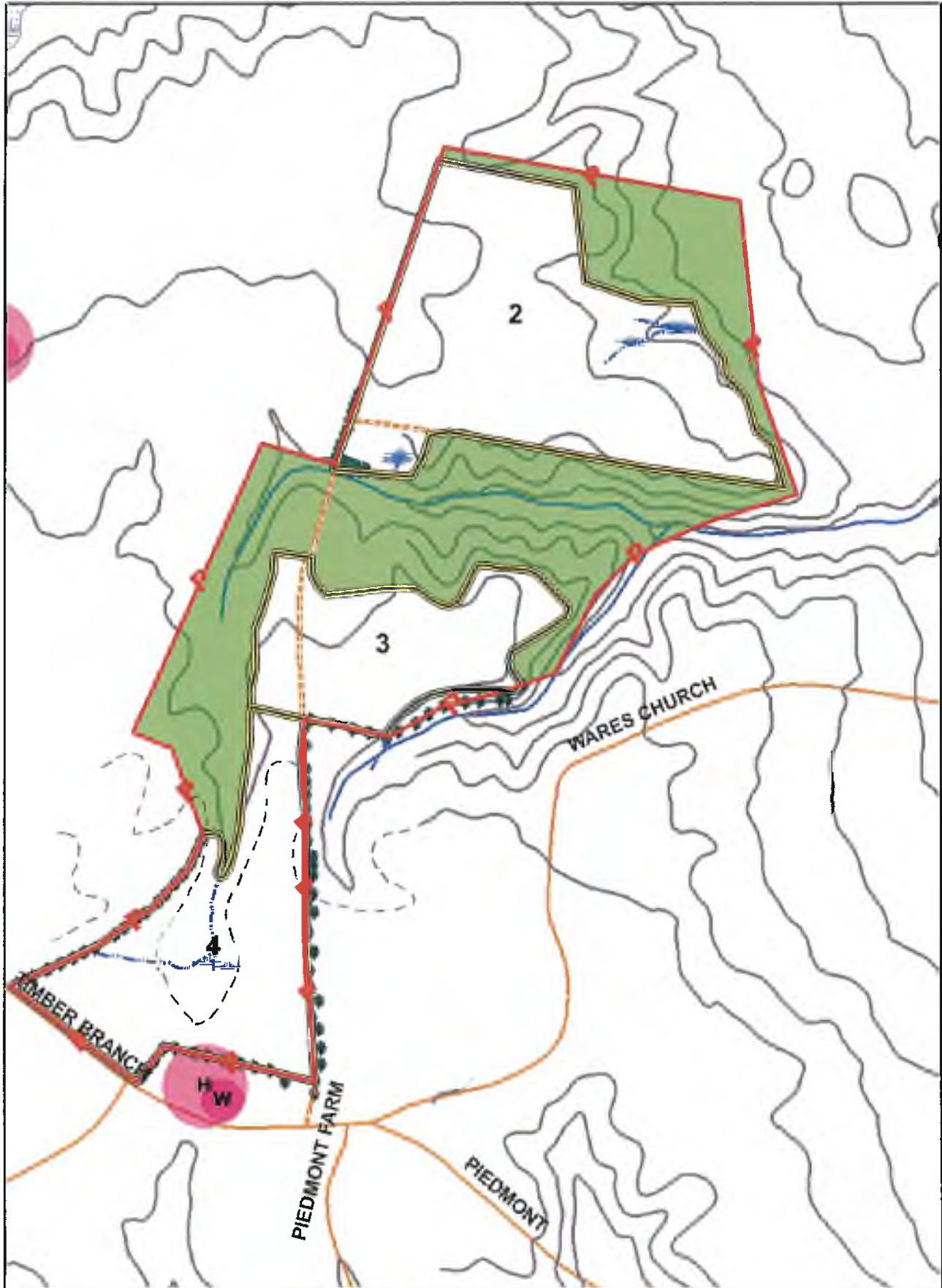
**AERIAL MAP**

1 in = 665 feet  
1-14-18

# Legend For Site Plan

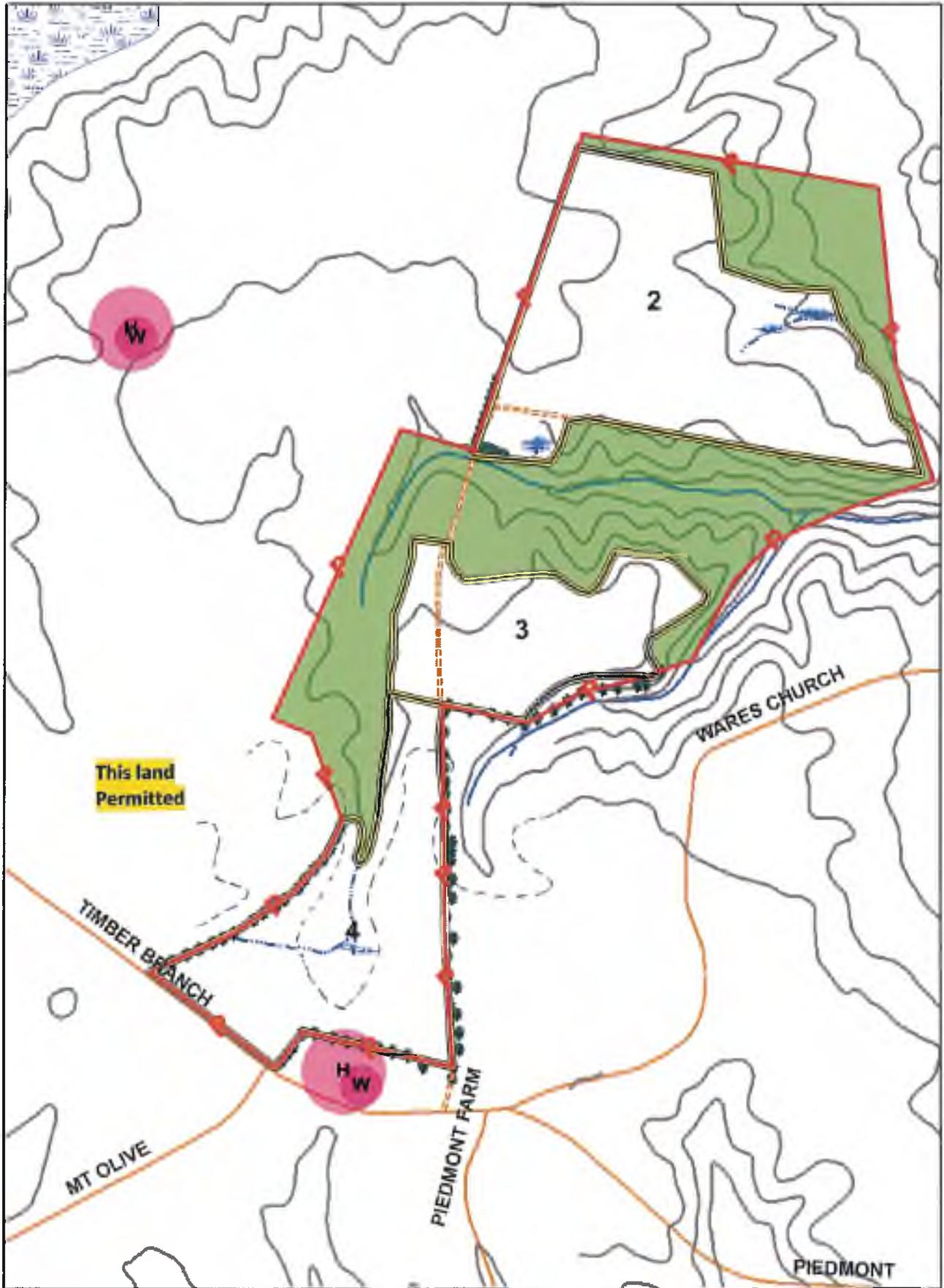
Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
	Wet Spot	
	Trees 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.



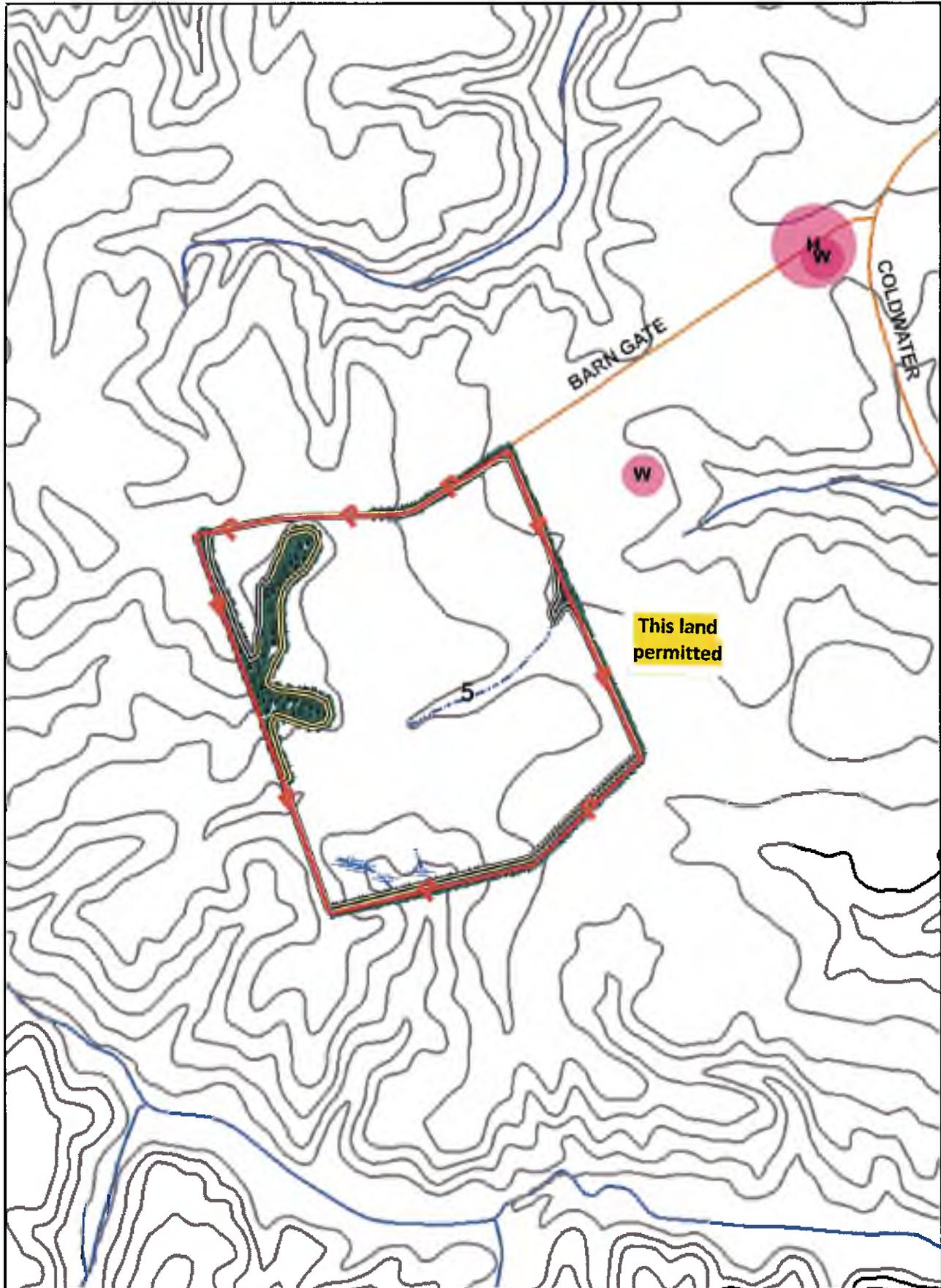
**SITE PLAN**

1 in = 660 feet



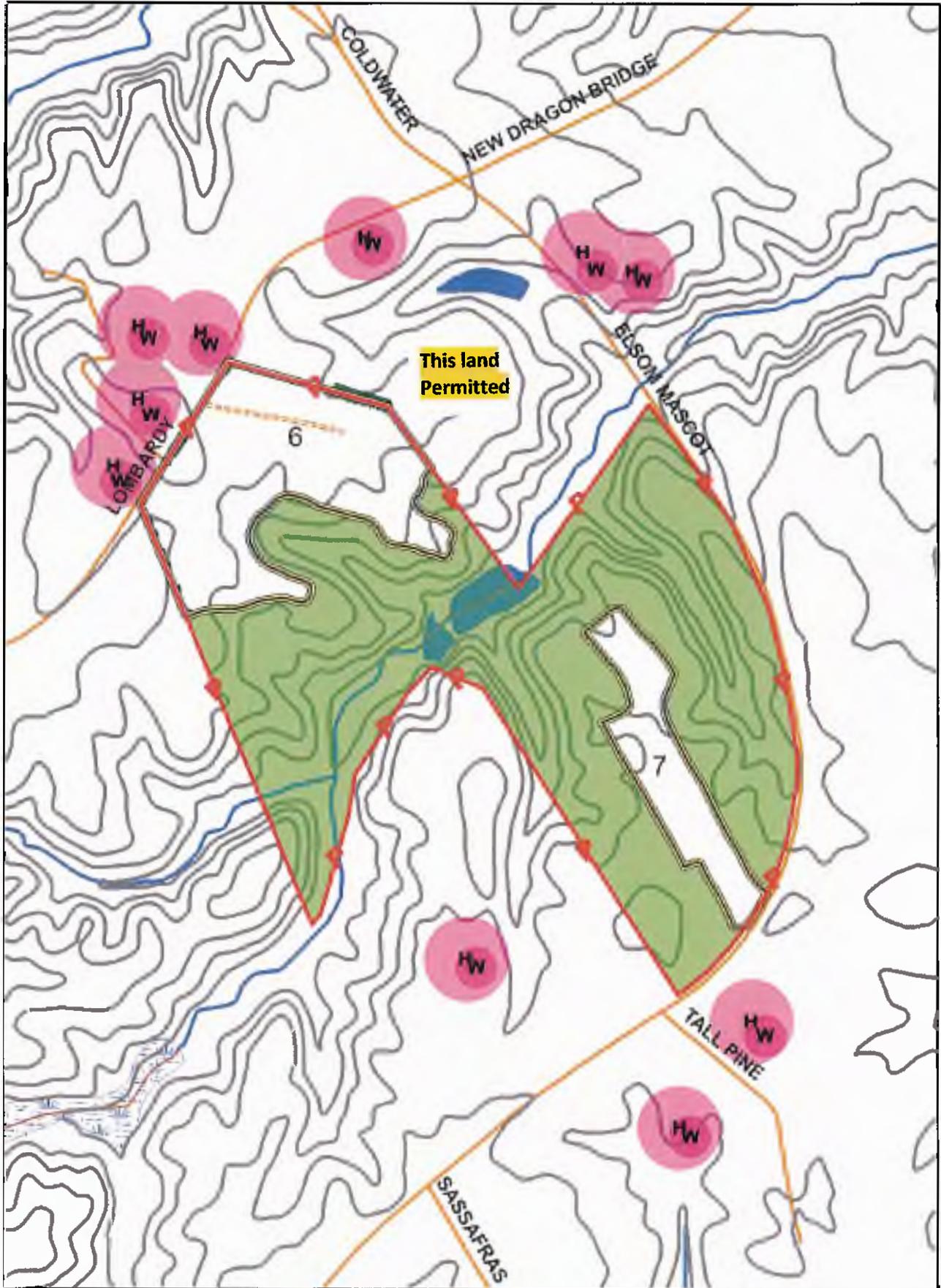
SITE PLAN

1 in = 660 feet



**SITE PLAN**

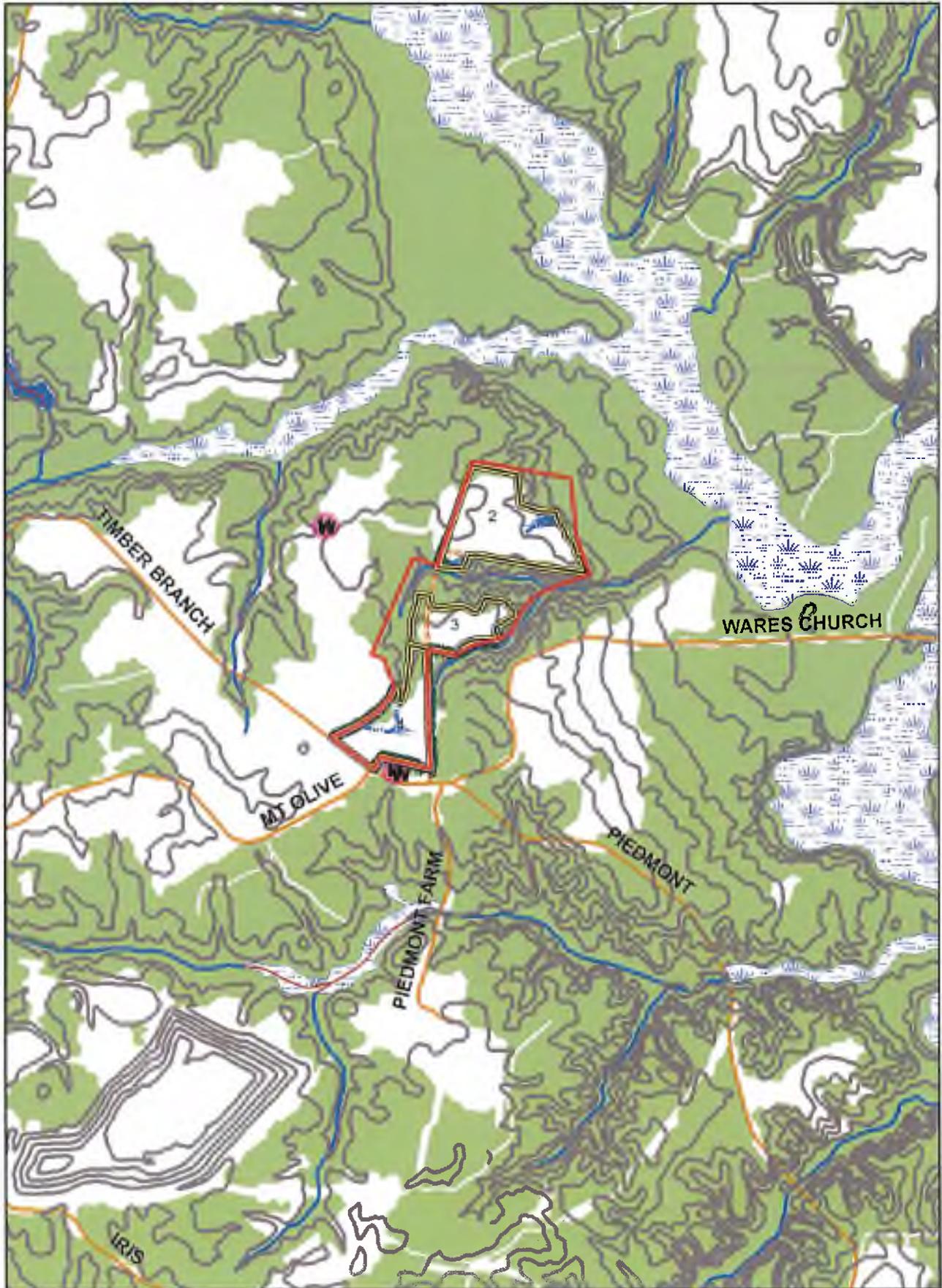
1 in = 660 feet



**SITE PLAN**

1 in = 660 feet

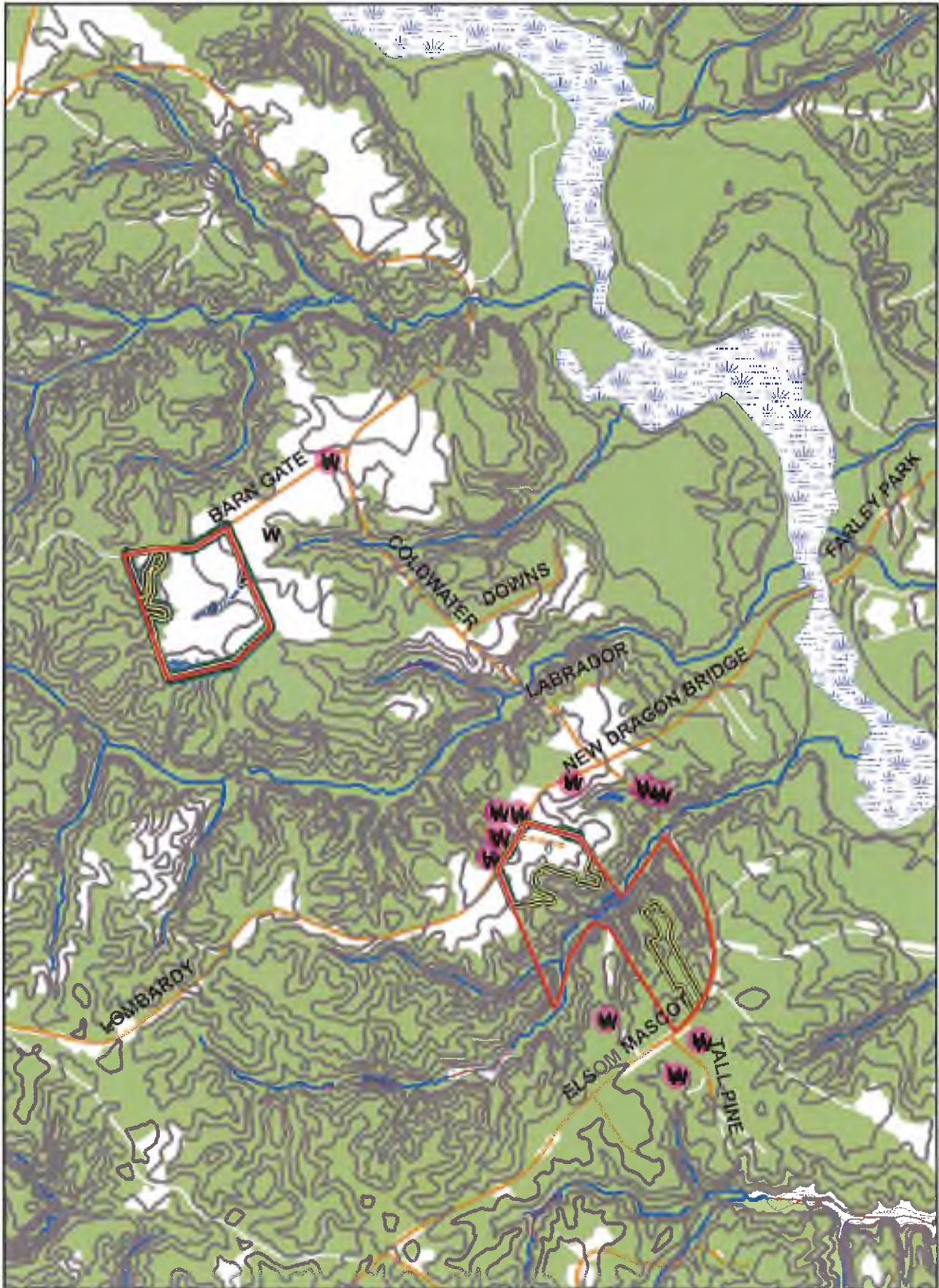
1-14-18



TOPOGRAPHIC MAP

1 in = 2,000 feet

1-14-18



**TOPOGRAPHIC MAP**

1 in = 2,000 feet  
1-14-18