

LAND APPLICATION SITE
JOHN & LYNWOOD BROADDUS
CRJCB 1 - 23
CAROLINE 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 5-29-19 between John Carroll Broaddus 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 Cowline Co., Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
99-A-3			
99-A-4			

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: The Landowner is the sole owner of the properties identified herein.
 The Landowner is one of multiple owners of the properties identified herein.

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

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

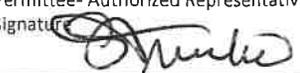
<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Printed name <u>John Carroll Broaddus</u>	Mailing Address <u>25038 Mattaponi Trail Mt. Leonard Va. 22514</u>	Landowner Signature 
By: <u>Owner</u>	Phone No. <u>(804) 512-9134</u>	
* <input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
* <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee- Authorized Representative Signature 
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: John Carroll Broadus

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).

John C. Broadus
Landowner's Signature

5/29/19
Date

John C. Broadus
Operator's Signature

25038 Mattaponi Trail
Milford, Va. 22514
mailing address & phone
Tel 804-512-9134

5/29/19
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 5-29-19 between Lynwood Broadbus 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 Caroline, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
99-A-3			
99-A-4			

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: The Landowner is the sole owner of the properties identified herein.
 The Landowner is one of multiple owners of the properties identified herein.

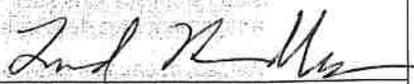
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

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

Printed name <u>Lynwood Broadbus</u>	Mailing Address <u>25038 Mattaponi Trail</u>	Landowner Signature 
By: <u>Z. M. Miller</u>	<u>Milford, Va. 22514</u>	
Title* <u>Owner</u>	Phone No. <u>804-512-4068</u>	

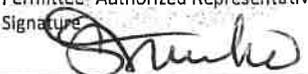
I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.

I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name Susan Trumbo	Mailing Address PO Box 562, Remington Virginia 22734	Permittee- Authorized Representative Signature 
Title Technical Manager	Phone No. 540-547-3300	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: Lynwood Broadus

Landowner Site Management Requirements:

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

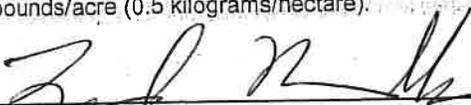
I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

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

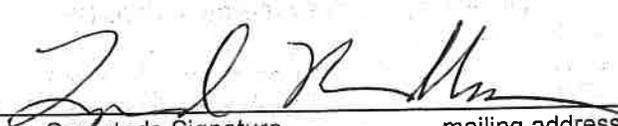
1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to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

Following biosolids application to pasture or hayland sites:

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


Landowner's Signature

5-29-19
Date


Operator's Signature

25038 Mattaponi Trail
M: 1ford, Va. 22514
Tel 804-512-4068
5-29-19
mailing address & phone 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 4/28/17 between Rebecca Broadus 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 Caroline, 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
99-A-3	88-A-36		
99-A-4			

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- The Landowner is the sole owner of the properties identified herein.
 The Landowner is one of multiple owners of the properties identified herein.

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

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<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			

Rebecca B. Broadus

Rebecca B. Broadus

25015 Mattaponi Trl.
Milford, Va. 22574

Landowner - Printed Name, Title

Signature

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)

Strumbo

Strumbo

PO Box 562 Remington, Virginia 22734

Permittee - Authorized Representative
Printed Name

Signature

Mailing Address

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

Permittee: Recyc Systems, Inc

County or City: Hanover

Landowner: Rebecca B Broadus

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).

Rebecca B. Broadus
Landowner's Signature

4/28/17
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 5-29-19 between Curtis Bates Broadhus 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 Caroline Co. Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
99-A-3			
99-A-4			

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: The Landowner is the sole owner of the properties identified herein.
 The Landowner is one of multiple owners of the properties identified herein.

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

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

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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			

Printed name <u>Curtis Bates Broadhus</u>	Mailing Address <u>25038 Mattaponi Trail Milford Va. 22514</u>	Landowner Signature 
By: <u>owner</u>	Phone No. <u>804-512-4152</u>	

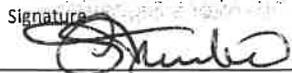
I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.

I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.

Permittee:

Recyc Systems, Inc. the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name Susan Trumbo	Mailing Address PO Box 562, Remington Virginia 22734	Permittee- Authorized Representative Signature 
Title Technical Manager	Phone No. 540-547-3300	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: Curtis Bates Broadus

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.

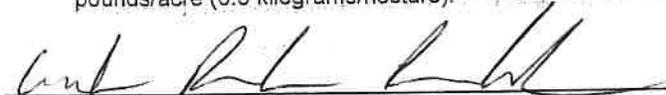
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 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
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 - 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,
 - 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;
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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).


Landowner's Signature

5-29-19
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 5-29-19 between Stephanie Broadus 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 Caroline Co, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
99-A-3			
99-A-4			

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: The Landowner is the sole owner of the properties identified herein.
 The Landowner is one of multiple owners of the properties identified herein.

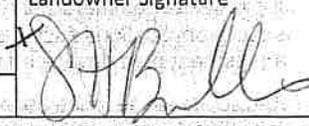
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

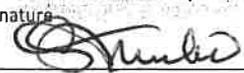
Class B biosolids Water treatment residuals Food processing waste Other industrial sludges
 Yes No Yes No Yes No Yes No

Printed name <u>Stephanie Broadus</u>	Mailing Address <u>25038 Mattaponi Trail</u>	Landowner Signature 
By: <u>Stephanie Broadus</u>	<u>Milford, Va. 22514</u>	
Title* <u>Owner</u>	Phone No. <u>804-512-4152</u>	
* <input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
* <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee- Authorized Representative Signature 
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: Stephanie Broadus

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).

x Stephanie Broadus
Landowner's Signature

5/29/19
Date

FARM DATA SHEET

SITE NAME:	John & Lynwood Broaddus	COUNTY:	Caroline
OWNER:	John Carroll Broaddus et. als.	OPERATOR:	John Broaddus Lynwood Broaddus
OWNER'S ADDRESS:	See List Below	OPERATOR'S ADDRESS:	25038 Mattaponi Trail Milford, VA 22514
OWNER'S TELEPHONE:	See List Below	OPERATOR'S TELEPHONE:	804-633-5518
GENERAL FARM TYPE:	Row Crops/ Pasture/ Hay	CELL PHONE:	804-512-9134 (John) 804-512-4068 (Lynwood)
# CATTLE:	40	EMAIL:	jbroadus4@gmail.com
LAGOON or SLURRY:	N/A	LATITUDE:	F 1-15 37.904 F 16-23 37.893
TOPO QUAD:	Sparta	LONGITUDE:	F 1-15 -77.208 F 16-23 -77.209
COMMENTS:		METHOD OF DETERMINATION:	Online Maps
	John Carroll Broaddus 25038 Mattaponi Trail Milford, VA 22514 804-512-9134	Lynwood and Rebecca Broaddus 25028 Mattaponi Trail Milford, VA 22514	Curtis Bates Broaddus and Stephanie Broaddus 25038 Mattaponi Trail Milford, VA 22514

NEW FIELD CHANGES JOHN & LYNWOOD BROADDUS CAROLINE COUNTY

This farm is part of the old Robert F Upshaw Site

Field 1	old field RFU 2
Field 2	old field RFU 3
Field 3	old field RFU 4
Field 4	old field RFU 6
Field 5	part of old field RFU 7
Field 6	part of old field RFU 7
Field 7	part of old field RFU 5
Field 8	part of old field RFU 5
Field 9	part of old field RFU 9
Field 10	old field RFU 8
Field 11	part of old field RFU 5
Field 12	part of old field RFU 5
Field 13	part of old field RFU 9
Field 14	part of old field RFU 10
Field 15	part of old field RFU 10
Field 16	part of old field RFU 11
Field 17	old field RFU 14
Field 18	part of old field RFU 11
Field 19	old field RFU 12
Field 20	part of old field RFU 13
Field 21	part of old field RFU 13
Field 22	part of old field RFU 13
Field 23	part of old field RFU 13

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			
CRJCB 1	51033-00434-0000	7.4	-	-	-	YO 50	99-A-3	T 3796 F 35
CRJCB 2	51033-00435-0000	8.4	-	-	-	YO 50	99-A-3	T 3796 F 2
CRJCB 3	51033-00436-0000	9.4	-	-	-	YO 50	99-A-3	T 3796 F 3
CRJCB 4	51033-00438-0000	11.8	-	-	-	YO 50	99-A-3 99-A-4	T 3796 F 4
CRJCB 5	51033-00439-0000	4.9	-	-	-	YO 50	99-A-4	T 3796 F 5
CRJCB 6	51033-00439-0000	7.6	-	-	-	YO 50	99-A-4	T 3796 F 6
CRJCB 7	51033-00437-0000	4.8	-	-	-	YO 50	99-A-3	T 3796 F 7
CRJCB 8	51033-00437-0000	16.6	12A Nov.-Apr.	-	-	YO 50	99-A-3	T 3796 F 8
CRJCB 9	51033-00441-0000	12.1	-	-	-	YO 50	99-A-4	T 3796 F 9
CRJCB 10	51033-00440-0000	10.2	-	-	-	YO 50	99-A-4	T 3796 F 10

7-3-19

CRJCB 11	51033-00437-0000	1.5	-	-	-	-	-	YO 50	99-A-3	T 3796 F 11
CRJCB 12	51033-00437-0000	3.1	1A Dec.-Apr. 8A Nov.-Apr.	-	-	-	-	YO 50	99-A-3	T 3796 F 12
CRJCB 13	51033-00441-0000	10.3	-	-	-	-	-	YO 50	99-A-4	T 3796 F 13, 34
CRJCB 14	51033-00442-0000	3.5	-	-	-	-	-	YO 50	99-A-4	T 3796 F 15
CRJCB 15	51033-00442-0000	7.8	1A Dec.-Apr.	-	-	-	-	YO 50	99-A-4	T 3796 F 14
CRJCB 16	51033-00443-0000	5.2	1A Dec.-Apr.	-	-	-	-	YO 50	99-A-4	T 3796 F 24
CRJCB 17	51033-00446-0000	14.6	1A Dec.-Apr.	-	-	-	-	YO 50	99-A-4	T 3796 F 17
CRJCB 18	51033-00443-0000	63.3	1A Dec.-Apr.	-	-	-	-	YO 50	99-A-4	T 3796 F 1, 16
CRJCB 19	51033-00444-0000	25.1	8A Nov.-Apr.	-	-	-	-	YO 50	99-A-4	T 3796 F 18
CRJCB 20	51033-00445-0000	16.0	8A Nov.-Apr.	-	-	-	-	YO 50	99-A-4	T 3796 F 19
CRJCB 21	51033-00445-0000	2.0	4A Nov.-July 8A Nov.-Apr.	-	-	-	-	YO 50	99-A-4	T 3796 F 22
CRJCB 22	51033-00445-0000	1.3	-	-	-	-	-	YO 50	99-A-4	T 3796 F 20
CRJCB 23	51033-00445-0000	4.8	4A Nov.-July 8A Nov.-Apr.	-	-	-	-	YO 50	99-A-4	T 3796 F 21
TOTAL ACRES IN SITE		251.7								

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: John & Lynwood Broaddus

County or City: Caroline Co.

Please Print

Signature not required on this page

<u>Tax Parcel ID(s)</u>	<u>Landowners (s)</u>
99-A-3	John Carroll Broaddus et. als.
99-A-4	John Carroll Broaddus et. als.

Nutrient Management Plan Balance Sheet
(Fall, 2019-Winter, 2021)
John & Lynwood Broadus
Planner: John Doe (cert. No. 103)

Tract: 3796 Location: Caroline
 (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 - applied N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes
35/CRJCB 1(N)	7/7	2019 2020	Wheat (grain) Soybeans (DC)	100-60-60 --- 0-60-60	0/0 0/0				100-60-60 0-120-120	N/A N/A		
2/CRJCB 2(N)	8/8	2019 2020	Wheat (grain)	100-60-60 ---	0/0				100-60-60	N/A		
3/CRJCB 3(N)	9/9	2019	Fescue grass hay mt.	90-80-170 ---	0/0				90-80-170	N/A		
4/CRJCB 4(N)	12/12	2019 2020	Wheat (grain)	100-60-60 ---	20/0				80-60-60	N/A		
5/CRJCB 5(N)	5/5	2019 2020	Wheat (grain)	100-60-60 ---	20/0				80-60-60	N/A		
6/CRJCB 6(N)	8/8	2019 2020	Wheat (grain)	100-60-60 ---	20/0				80-60-60	N/A		
7/CRJCB 7(N)	5/5	2019 2020	Wheat (grain)	100-60-60 ---	0/0				100-60-60	N/A		
8/CRJCB 8(N)	17/17	2019 2020	Soybeans (DC) Wheat (grain)	0-60-60 100-60-60 ---	0/0 0/0				0-120-120 100-60-60	N/A N/A		
9/CRJCB 9(N)	12/12	2019 2020	Soybeans (DC) Wheat (grain)	0-60-60 100-60-60 ---	0/0 20/0				0-120-120 80-60-60	N/A N/A		
10/CRJCB 10(N)	10/10	2019 2020	Wheat (grain)	100-60-60 ---	20/0				80-60-60	N/A		
11/CRJCB 11(N)	2/2	2019 2020	Wheat (grain)	100-60-60 ---	0/0				100-60-60	N/A		
12/CRJCB 12(N)	3/3	2019 2020	Soybeans (DC) Wheat (grain)	0-60-60 100-60-60 ---	0/0 0/0				0-120-120 100-60-60	N/A N/A		
			Soybeans (DC)	0-60-60 ---	0/0				0-120-120	N/A		

Tract: 3796 Location: Caroline

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
13, 34/CRJCB 13(N)	10/10	2019 2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
15/CRJCB 14(N)	4/4	2019 2020	Wheat (grain)	100-60-60	0/0				100-60-60	N/A		
14/CRJCB 15(N)	8/8	2019	Grass Pasture	50-80-80	0/0				50-80-80	N/A		
24/CRJCB 16(N)	5/5	2019	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
17/CRJCB 17(N)	15/15	2019 2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
1, 16/CRJCB 18(N)	63/63	2019 2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
18/CRJCB 19(N)	25/25	2019 2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
19/CRJCB 20(N)	16/16	2019 2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
22/CRJCB 21(N)	2/2	2019 2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
20/CRJCB 22(N)	1/1	2019 2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
21/CRJCB 23(N)	5/5	2019 2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		

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

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
3796	CRJCB 1	7	[No Test]						
3796	CRJCB 2	8	[No Test]						
3796	CRJCB 3	9	[No Test]						
3796	CRJCB 4	12	[No Test]						
3796	CRJCB 5	5	[No Test]						
3796	CRJCB 6	8	[No Test]						
3796	CRJCB 7	5	[No Test]						
3796	CRJCB 8	17	[No Test]						
3796	CRJCB 9	12	[No Test]						
3796	CRJCB 10	10	[No Test]						
3796	CRJCB 11	2	[No Test]						
3796	CRJCB 12	3	[No Test]						
3796	CRJCB 13	10	[No Test]						
3796	CRJCB 14	4	[No Test]						
3796	CRJCB 15	8	[No Test]						
3796	CRJCB 16	5	[No Test]						
3796	CRJCB 17	15	[No Test]						
3796	CRJCB 18	63	[No Test]						

3796	CRJCB 19	25	[No Test]
3796	CRJCB 20	16	[No Test]
3796	CRJCB 21	2	[No Test]
3796	CRJCB 22	1	[No Test]
3796	CRJCB 23	5	[No Test]

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
3796	3796/35	CRJCB 1	7	Slagle	IIa	II	III	II	
	3796/2	CRJCB 2	8	Kempsville	IIb	II	III	III	
	3796/3	CRJCB 3	9	Kempsville	IIa	II	III	II	
	3796/4	CRJCB 4	12	Kempsville	IIa	II	III	II	
	3796/5	CRJCB 5	5	Slagle	IIb	I	III	I	
	3796/6	CRJCB 6	8	Slagle	IIb	I	III	I	
	3796/7	CRJCB 7	5	Slagle	IIa	II	III	II	
	3796/8	CRJCB 8	17	Slagle	IIb	I	III	I	
	3796/9	CRJCB 9	12	Kempsville	IIa	II	Not Suited	II	
3796/10	CRJCB 10	10	Slagle	IIb	I	III	III	II	
	3796/11	CRJCB 11	2	Kempsville	IIa	II	Not Suited	III	
3796/12	CRJCB 12	3	Altavista	Ib	I	II	I	I	
	3796/13, 34	CRJCB 13	10	Kempsville	IIa	II	Not Suited	III	
3796/15	CRJCB 14*	4	Slagle	IIa	I	III	III	II	High Leaching, High Slope
	3796/14	CRJCB 15*	8	Altavista	IIa	I	III	I	High Leaching, High Slope
3796/24	CRJCB 16*	5	Bojac1	IVb	II	Not Suited	IV	High Leaching	
3796/17	CRJCB 17*	15	State1	IIb	I	III	III	II	High Leaching
	3796/1, 16	CRJCB 18*	63	Bojac1	IVb	II	Not Suited	III	High Leaching
3796/18	CRJCB 19	25	Chewacla	IIa	I	Not Suited	I	I	
3796/19	CRJCB 20	16	Chewacla	IIa	I	Not Suited	I	I	
	3796/22	CRJCB 21	2	Chewacla	IIb	I	Not Suited	I	
3796/20	CRJCB 22	1	Riverview	IIa	I	II	III	I	
	3796/21	CRJCB 23	5	Chewacla	IIa	I	Not Suited	I	

* Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applications.

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, 2019 - Winter, 2021

Farm Name: John C. Broaddus

Location: Caroline

Specialist: John Doe

N-based Acres: 251.7

P-based Acres: 0.0

Tract Name: 3796

FSA Number: 3796

Location: Caroline

Field Name: CRJCB 1

Total Acres: 7.40 Usable Acres: 7.40

FSA Number: 35

Tract: 3796

Location: Caroline

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

[NO TEST]

K

Lab

Soils:

PERCENT

17

40

43

SYMBOL

11B

11C

22A

SOIL SERIES

Emporia Kempsville

Emporia Kempsville

Slagle

Field Warnings:

Field Name: CRJCB 2
Total Acres: 8.40 Usable Acres: 8.40
FSA Number: 2
Tract: 3796
Location: Caroline
Slope Class: C **Hydrologic Group:** B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE [NO TEST] **PH** P **K** **Lab**

Soils:

PERCENT	SYMBOL	SOIL SERIES
2	11B	Emporia Kempsville
70	11C	Emporia Kempsville
6	12A	Myatt Slagle
23	22A	Slagle

Field Warnings:

Field Name: CRJCB 3
Total Acres: 9.40 Usable Acres: 9.40
FSA Number: 3
Tract: 3796
Location: Caroline
Slope Class: C **Hydrologic Group:** B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
1	11B	Emporia Kempsville
66	11C	Emporia Kempsville
33	22B	Slagle

Field Warnings:

Field Name: CRJCB 4
Total Acres: 11.80 Usable Acres: 11.80
FSA Number: 4
Tract: 3796
Location: Caroline
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab

[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
56	11B	Emporia Kempsville
17	11C	Emporia Kempsville
9	22A	Slagle
18	22B	Slagle

Field Warnings:

Field Name: CRJCB 5
Total Acres: 4.90 **Usable Acres:** 4.90
FSA Number: 5
Tract: 3796
Location: Caroline
Slope Class: A **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 [NO TEST] **PH** P **K** Lab

Soils:

PERCENT	SYMBOL	SOIL SERIES
93	22A	Slagle
7	11B	Emporia Kempsville

Field Warnings:

Field Name: CRJCB 6

Total Acres: 7.60 Usable Acres: 7.60
FSA Number: 6
Tract: 3796
Location: Caroline
Slope Class: A 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

Soils:

PERCENT	SYMBOL	SOIL SERIES
82	22A	Slagle
18	22B	Slagle

Field Warnings:

Field Name: CRJCB 7
Total Acres: 4.80 Usable Acres: 4.80
FSA Number: 7
Tract: 3796
Location: Caroline
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
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
40	11A	Emporia Kempsville
16	12A	Myatt Slagle
44	22B	Slagle

Field Warnings:

Field Name: CRJCB 8
Total Acres: 16.60 Usable Acres: 16.60
FSA Number: 8
Tract: 3796
Location: Caroline
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
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
5	11A	Emporia Kempsville
6	12A	Myatt Slagle
4	21C	Kempsville Slagle
43	22A	Slagle

43 22B Slagle

Field Warnings:

Field Name: CRJCB 9
Total Acres: 12.10 Usable Acres: 12.10
FSA Number: 9
Tract: 3796
Location: Caroline
Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
21	10E	Emporia Kempsville Remlik
60	11A	Emporia Kempsville
19	22B	Slagle

Field Warnings:

Field Name: CRJCB 10
Total Acres: 10.20 Usable Acres: 10.20
FSA Number: 10
Tract: 3796
Location: Caroline
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 [NO TEST] PH P SYMBOL K Lab

Soils:

PERCENT	SYMBOL	SOIL SERIES
46	11A	Emporia Kempsville
4	22A	Slagle
51	22B	Slagle

Field Warnings:

Field Name: CRJCB 11

Total Acres: 1.50 Usable Acres: 1.50

FSA Number: 11

Tract: 3796

Location: Caroline

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 [NO TEST] PH P SYMBOL K Lab

Soils:

PERCENT	SYMBOL	SOIL SERIES
11	21C	Kempsville Slagle
89	11A	Emporia Kempsville

Field Warnings:

Field Name: CRJCB 12
Total Acres: 3.10 Usable Acres: 3.10
FSA Number: 12
Tract: 3796
Location: Caroline
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

Soils:

PERCENT	SYMBOL	SOIL SERIES
70	1A	Altavista
30	21C	Kempsville Slagle

Field Warnings:

Field Name: CRJCB 13
Total Acres: 10.30 Usable Acres: 10.30
FSA Number: 13, 34
Tract: 3796
Location: Caroline
Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
25	10E	Emporia Kempsville Remlik
75	11A	Emporia Kempsville

Field Warnings:

Field Name: CRJCB 14

Total Acres: 3.50 Usable Acres: 3.50

FSA Number: 15

Tract: 3796

Location: Caroline

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
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
32	10E	Emporia Kempsville Remlik
3	11A	Emporia Kempsville
66	22B	Slagle

Field Warnings:
 Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with percent slope in excess of 15%

Field Name: CRJCB 15
 Total Acres: 7.80 Usable Acres: 7.80
 FSA Number: 14
 Tract: 3796
 Location: Caroline
 Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft
 Distance to stream: 0 ft

Conservation Practices:
 Pasture (>75% cover)

P-Index Summary
 N-based
 Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
 DATE PH P K Lab
 [NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
---------	--------	-------------

71 1A Altavista
4 5B Bojac1
25 10E Emporia Kempsville Remlik

Field Warnings:
Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with percent slope in excess of 15%

Field Name: CRJCB 16
Total Acres: 5.20 Usable Acres: 5.20
FSA Number: 24
Tract: 3796
Location: Caroline
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
64	5B	Bojac1
36	25B	Bojac1 Tarboro

Field Warnings:
Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Field Name: CRJCB 17

Total Acres: 14.60 Usable Acres: 14.60

FSA Number: 17

Tract: 3796

Location: Caroline

Slope Class: A 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 [NO TEST] PH P K Lab

Soils:

PERCENT	SYMBOL	SOIL SERIES
45	23A	State1
36	5B	Bojac1
19	1A	Altavista

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Field Name: CRJCB 18

Total Acres: 63.30 Usable Acres: 63.30

FSA Number: 1, 16

Tract: 3796

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
2	1A	Altavista
85	5B	Bojac1
13	25B	Bojac1 Tarboro

Field Warnings:
Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Field Name: CRJCB 19

Total Acres: 25.10 Usable Acres: 25.10

FSA Number: 18

Tract: 3796

Location: Caroline

Slope Class: A 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
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
2	4A	Bibb Chastain
98	8A	Chewacla

Field Warnings:

Field Name: CRJCB 20

Total Acres: 16.00 Usable Acres: 16.00

FSA Number: 19

Tract: 3796

Location: Caroline

Slope Class: A 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
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
100	8A	Chewacla

Field Warnings:

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
1	4A	Bibb Chastain
99	18A	Riverview

Field Warnings:

Field Name: CRJCB 23

Total Acres: 4.80 Usable Acres: 4.80

FSA Number: 21

Tract: 3796

Location: Caroline

Slope Class: A 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

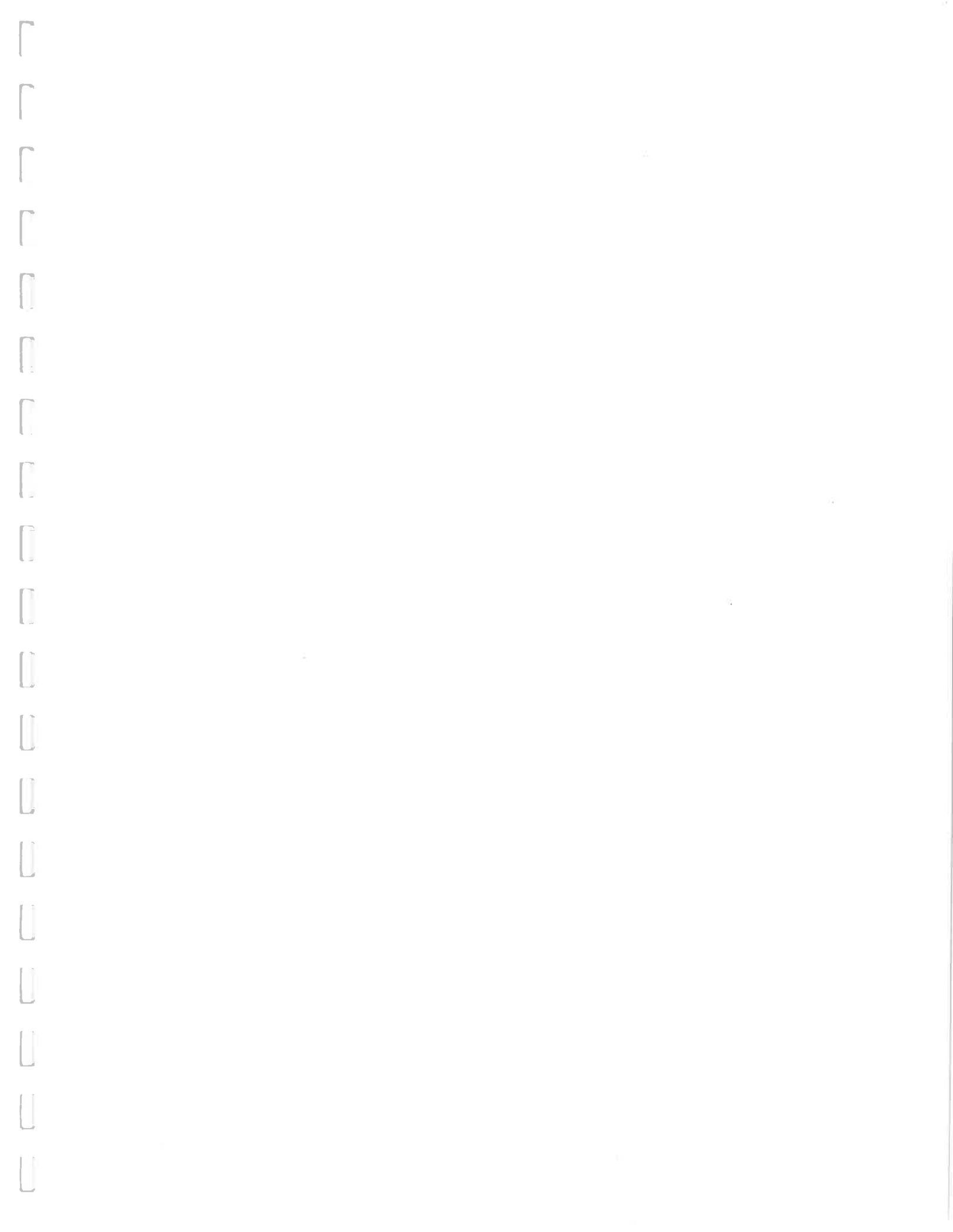
Soil Test Results:

DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
100	8A	Chewacla

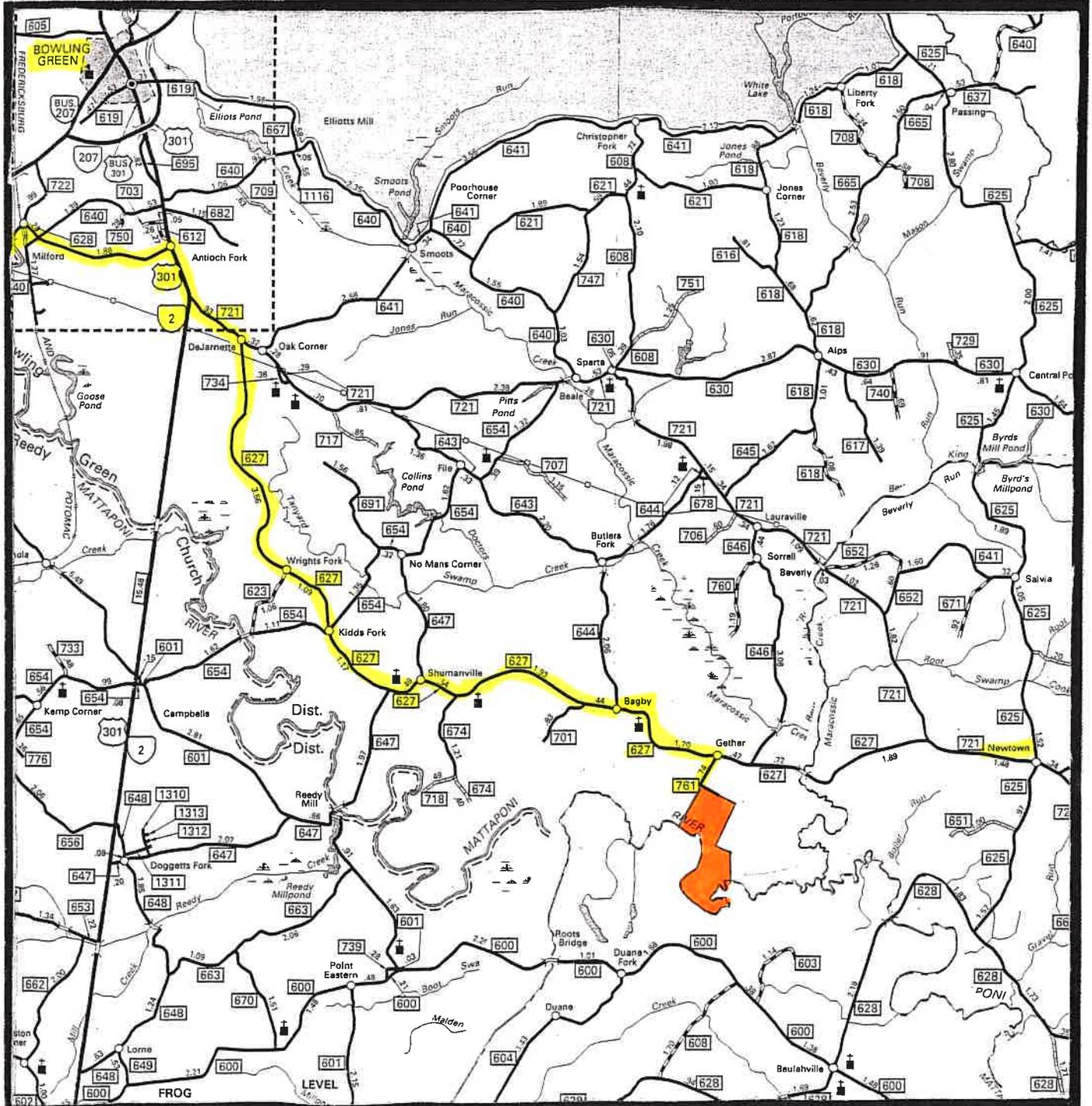
Field Warnings:



MAPS

Recyc Systems™ Inc.

(Biosolids Land Application)



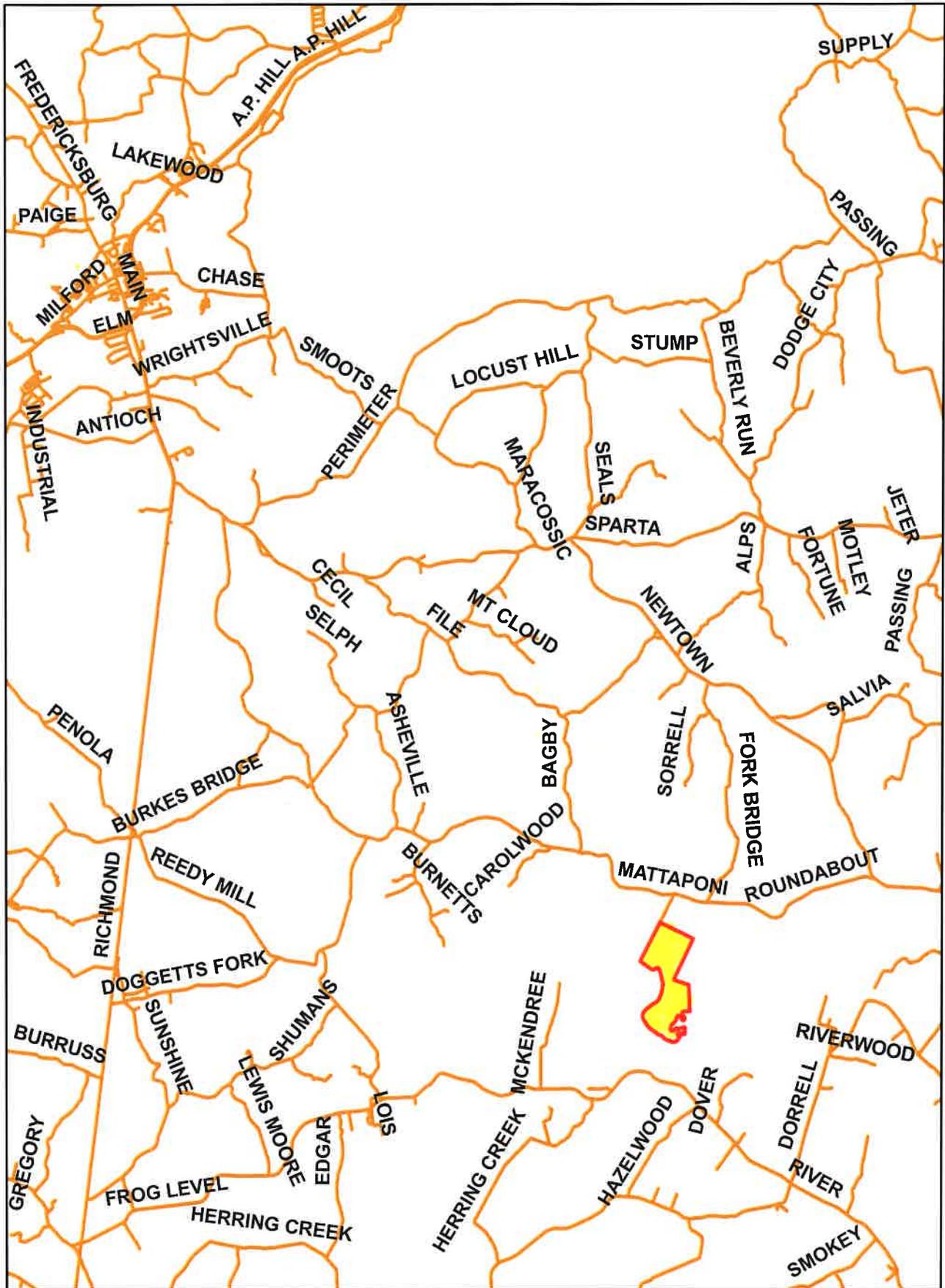
Scale: 1" = 2 Miles

Truck Route marked
in Yellow

VICINITY MAP

7-3-19

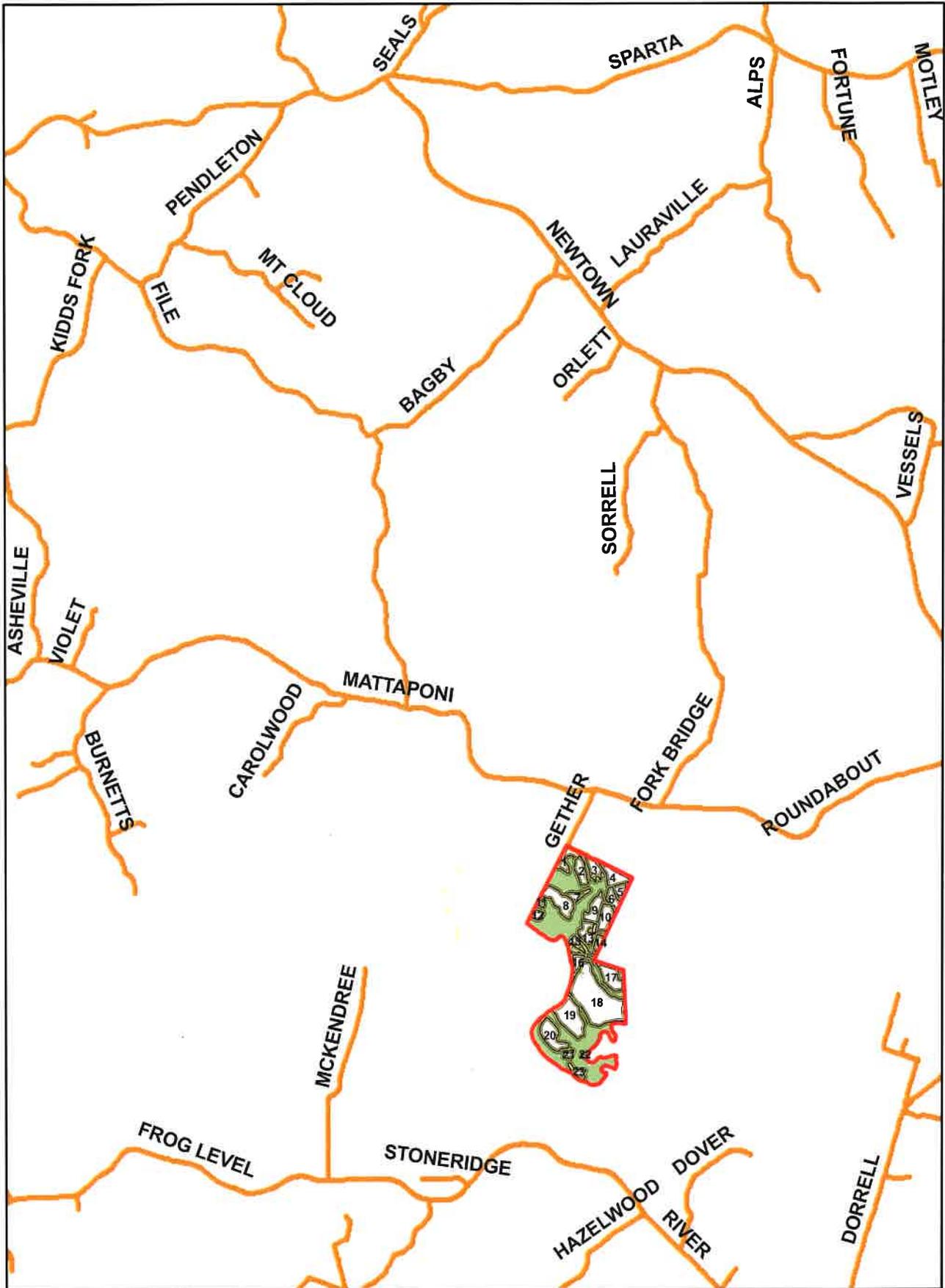




7-3-19

VICINITY MAP

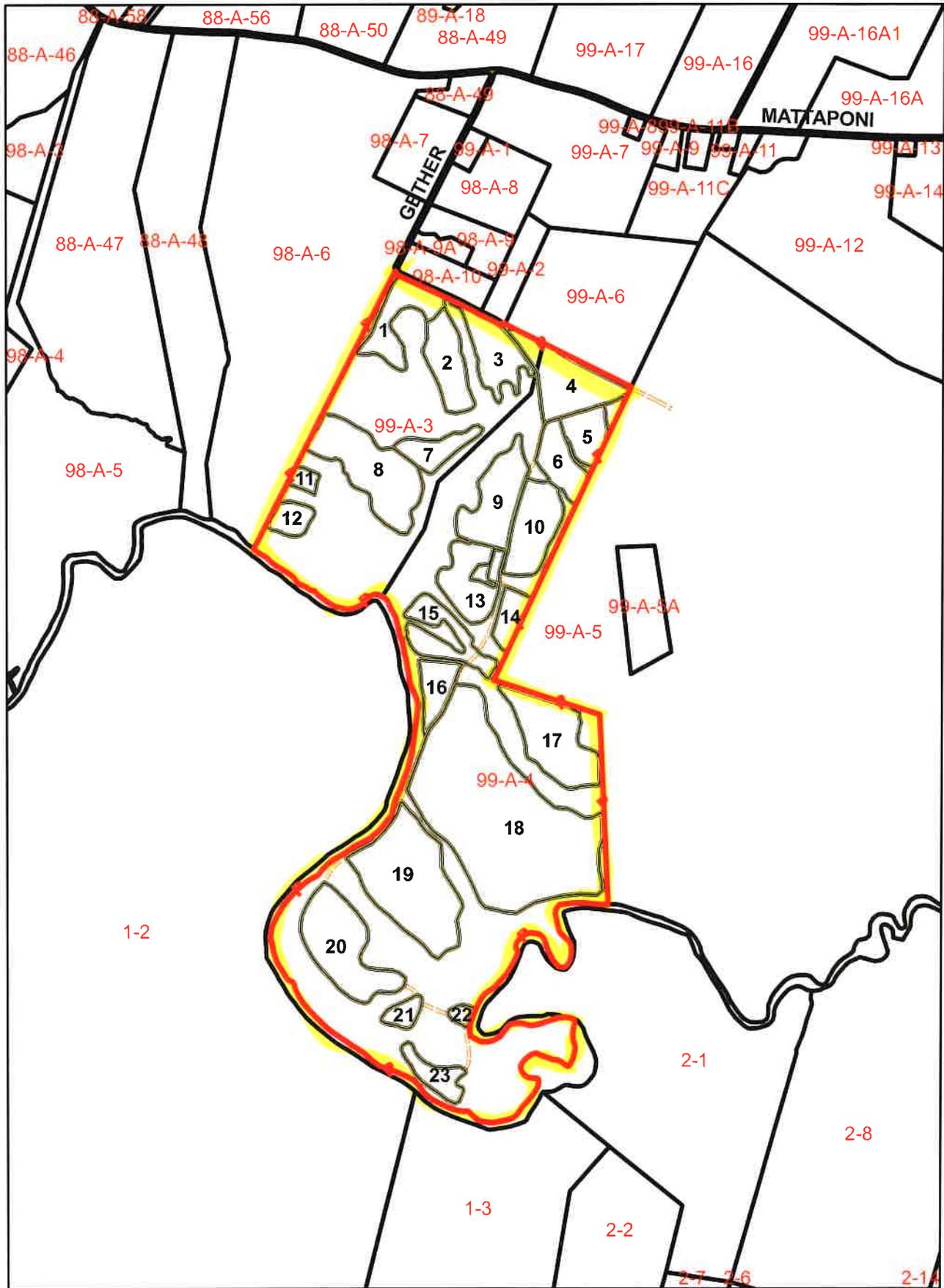
1 in = 2 miles



7-3-19

VICINITY MAP

1 in = 1 miles

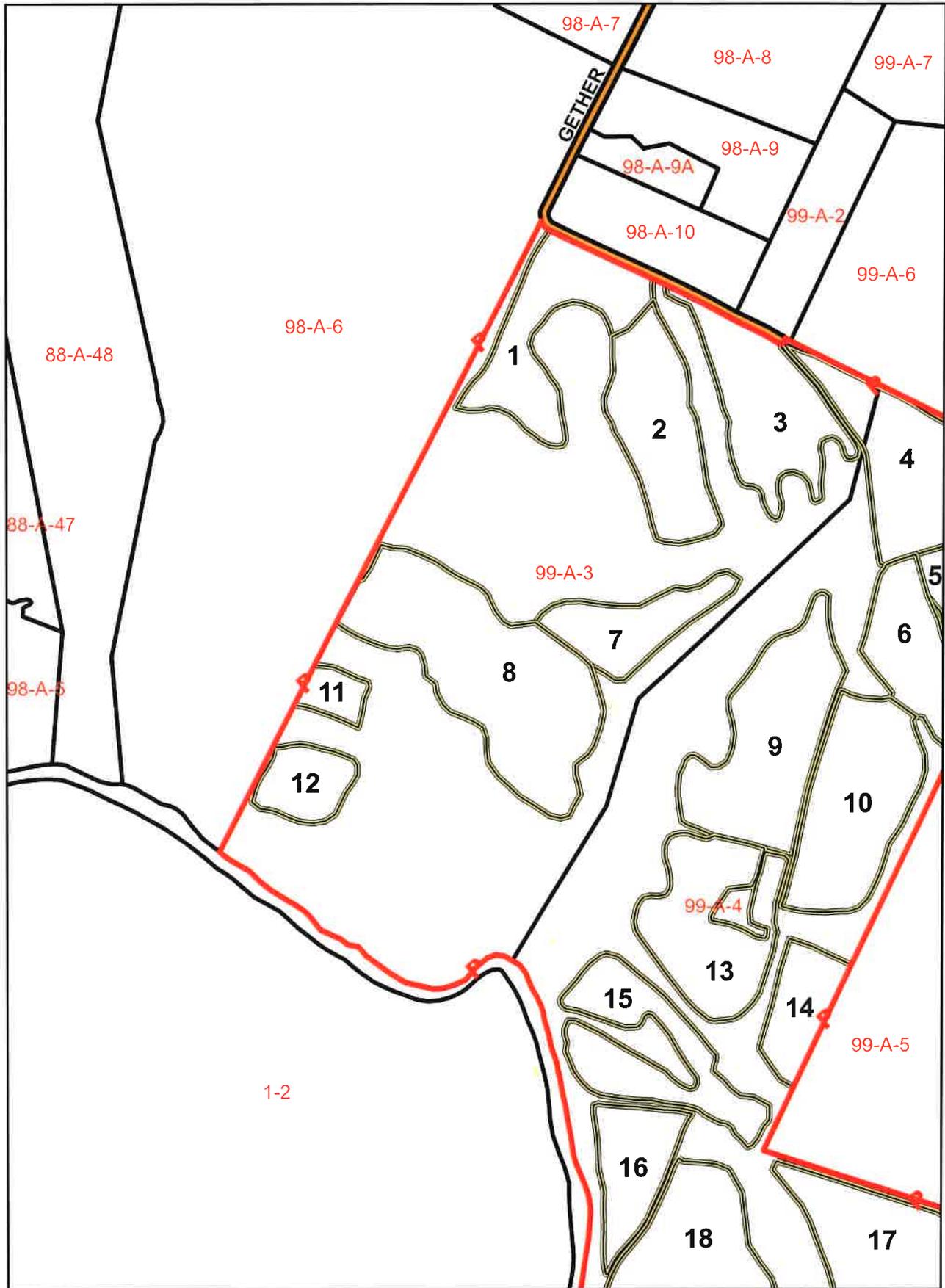


7-3-19

TAX MAP

1 in = 1,500 feet

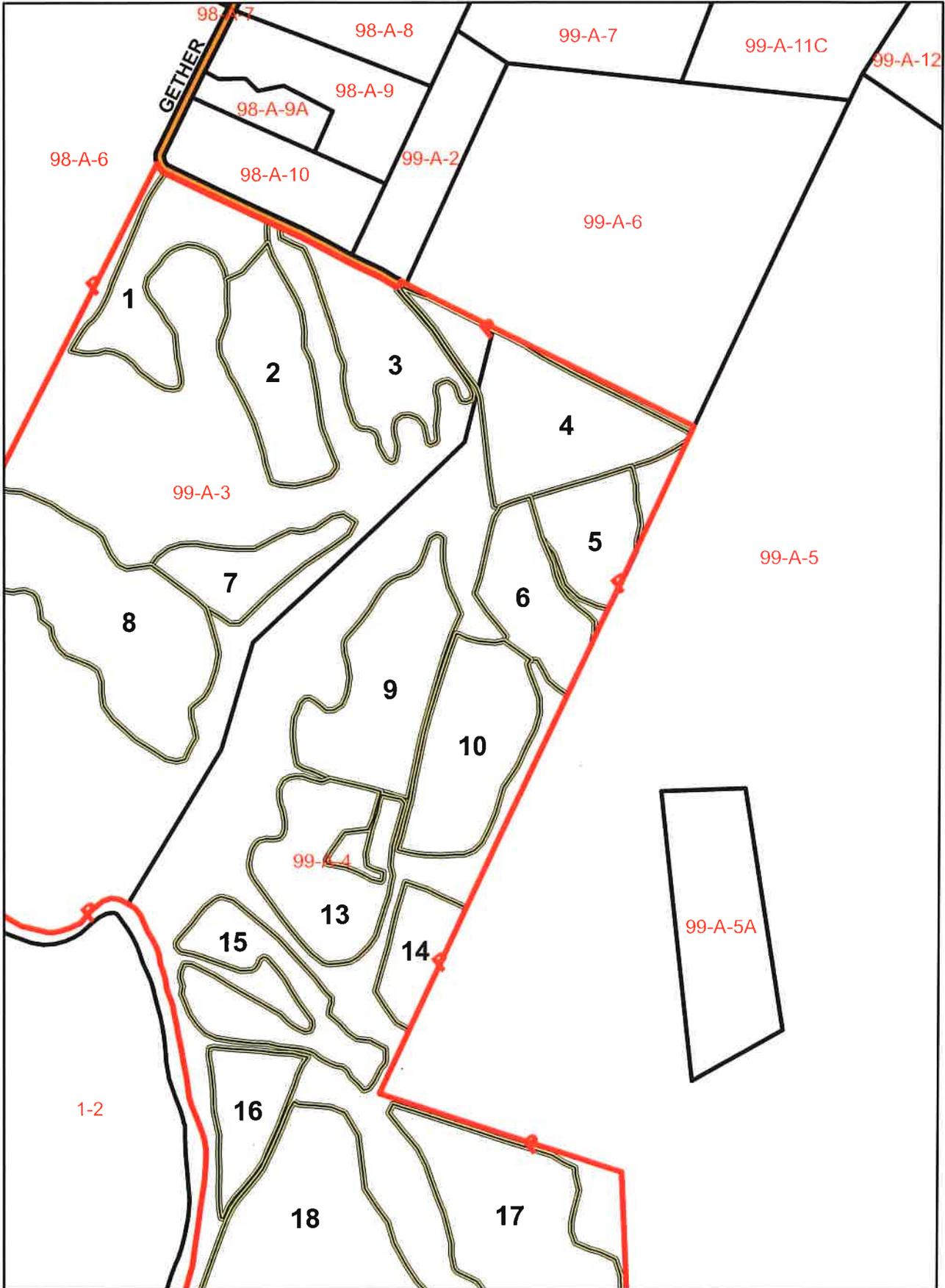




7-3-19

TAX MAP

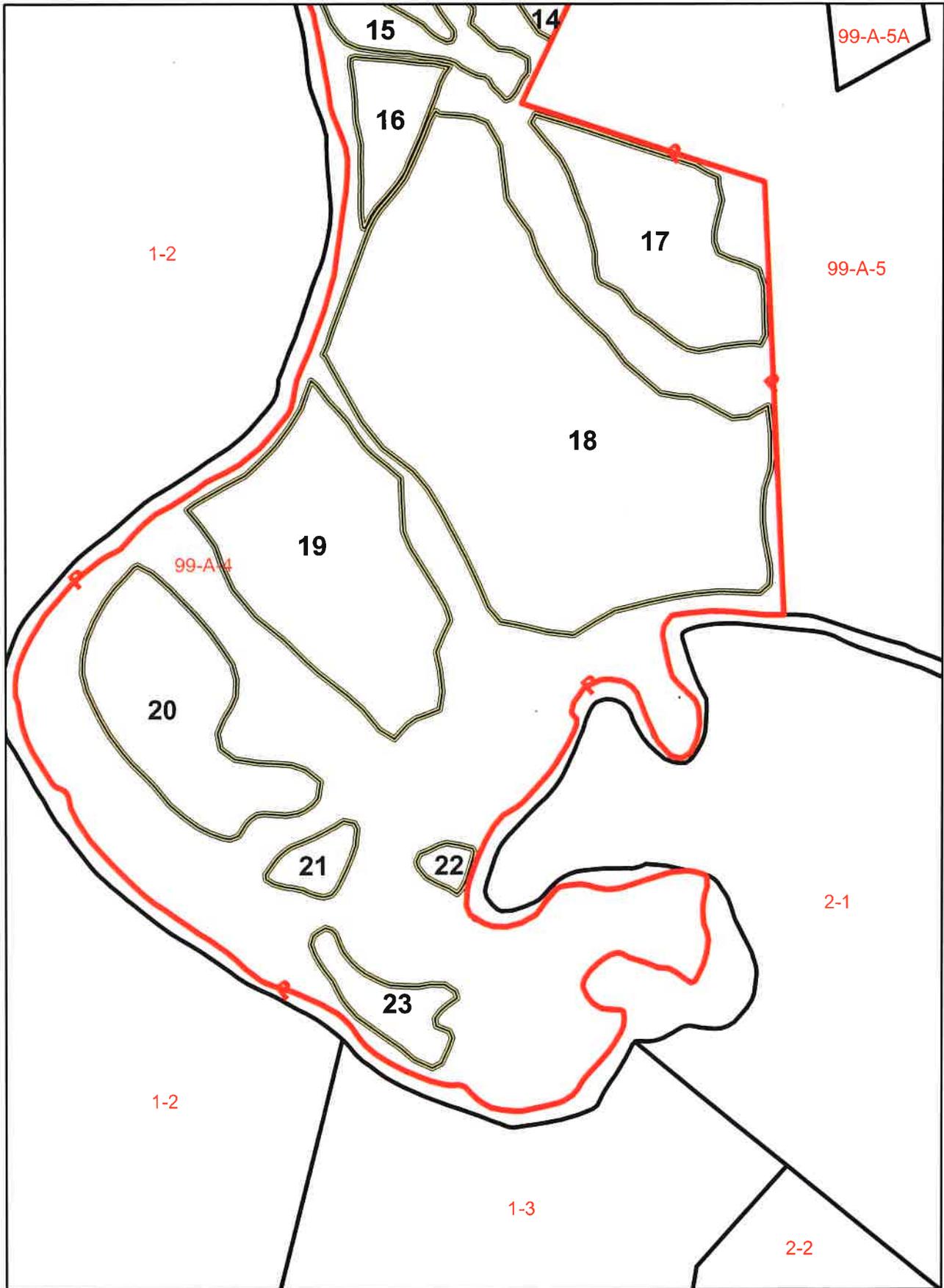
1 in = 660 feet



7-3-19

TAX MAP

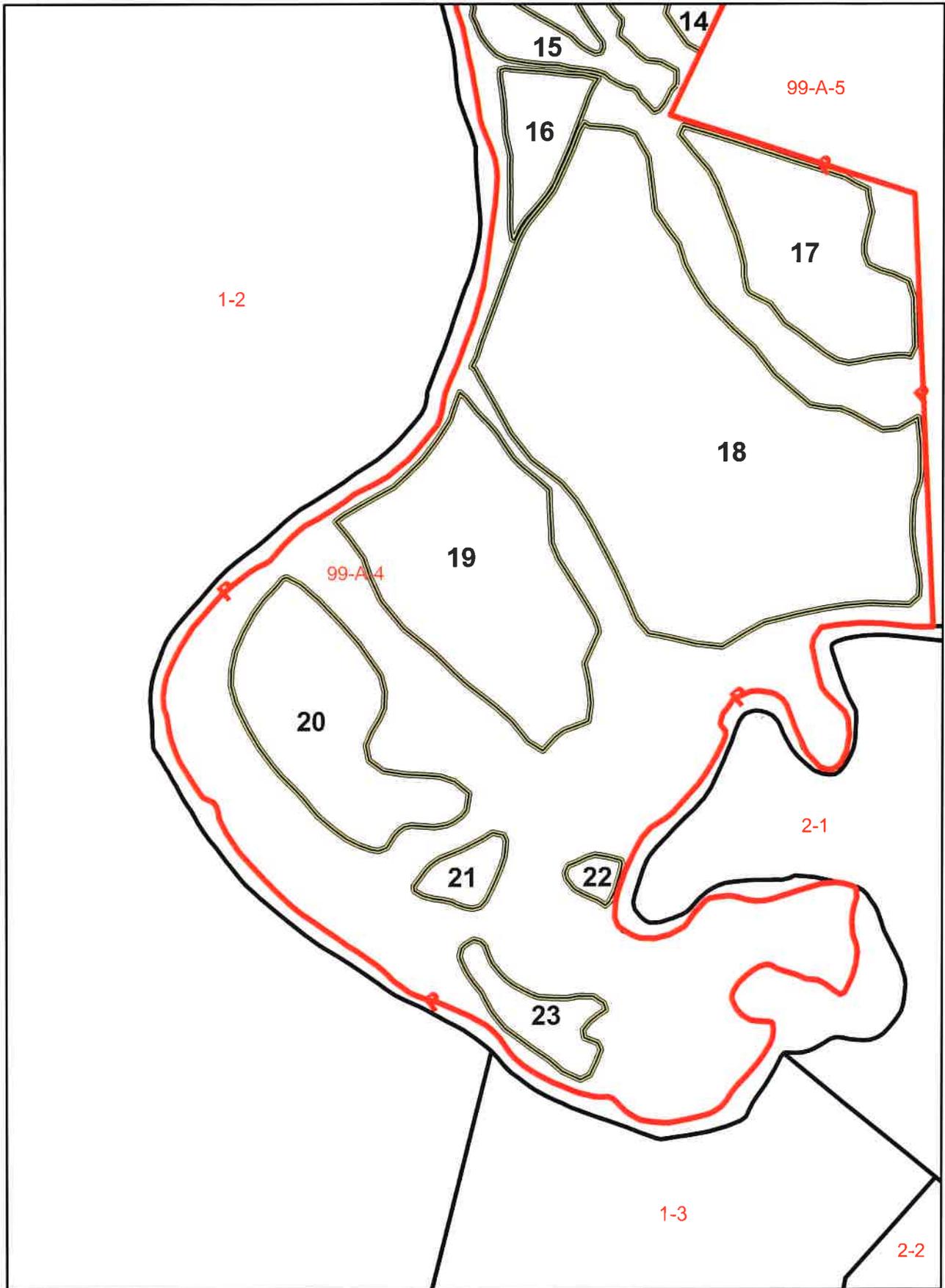
1 in = 660 feet



1-3-19

TAX MAP

1 in = 660 feet



7-3-19

TAX MAP

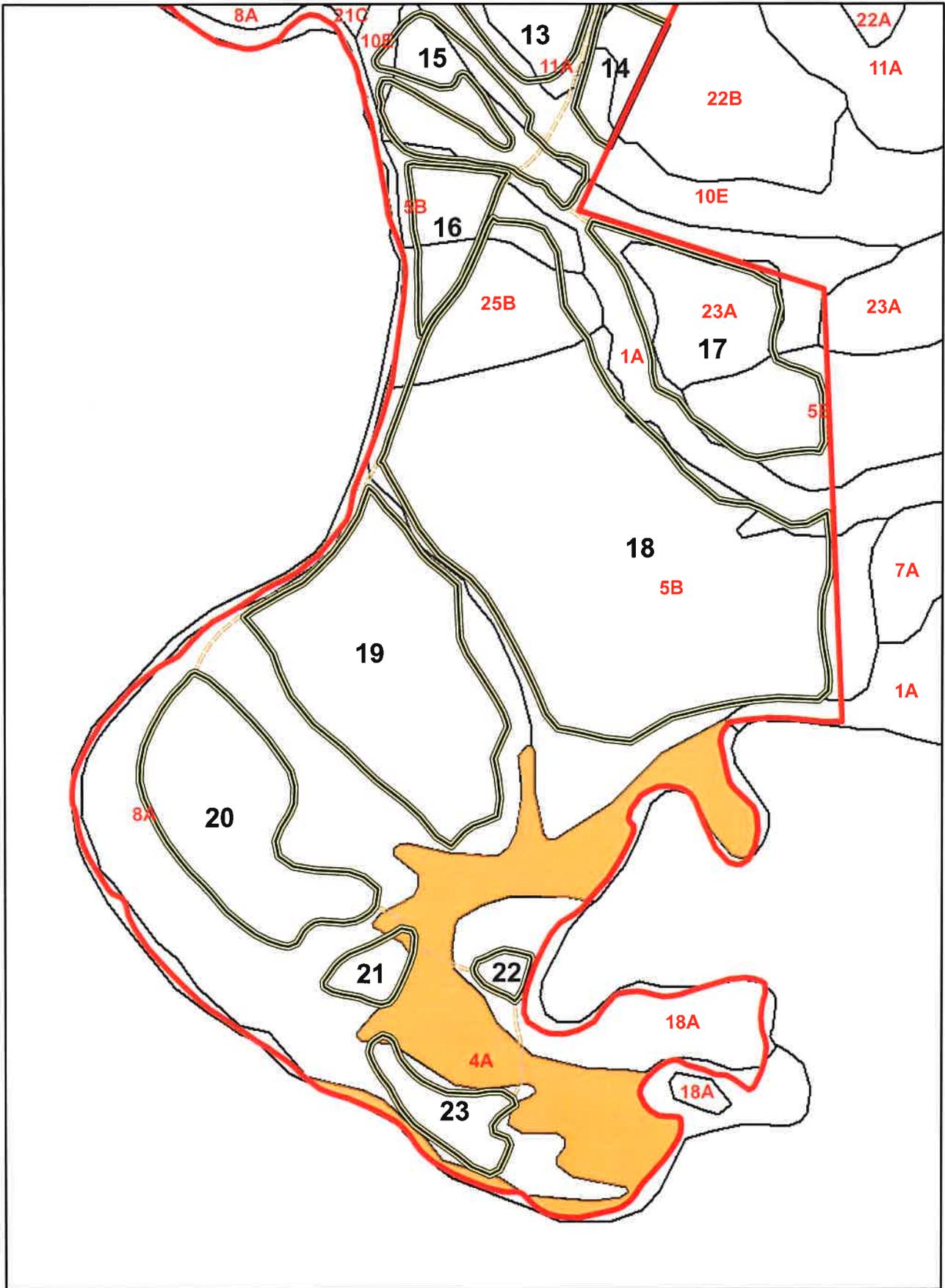
1 in = 660 feet

ADJOINING LANDOWNERS

JOHN C. BROADDUS

CAROLINE COUNTY

Tax Map	Parcel #	Owner Name(s)
98-A	6 10	Woodford B. Broaddus Estate Michael W. and Anita P. Alsop
99-A	2 5 6	Jeffrey W. Smith Robert Dwain Upshaw Henry W. and Zelma Chenault
KING WILLIAM COUNTY		
1	2 3	Glanvilla Farms LLC David S. Mitchell
2	1	John H. Foxwell Family



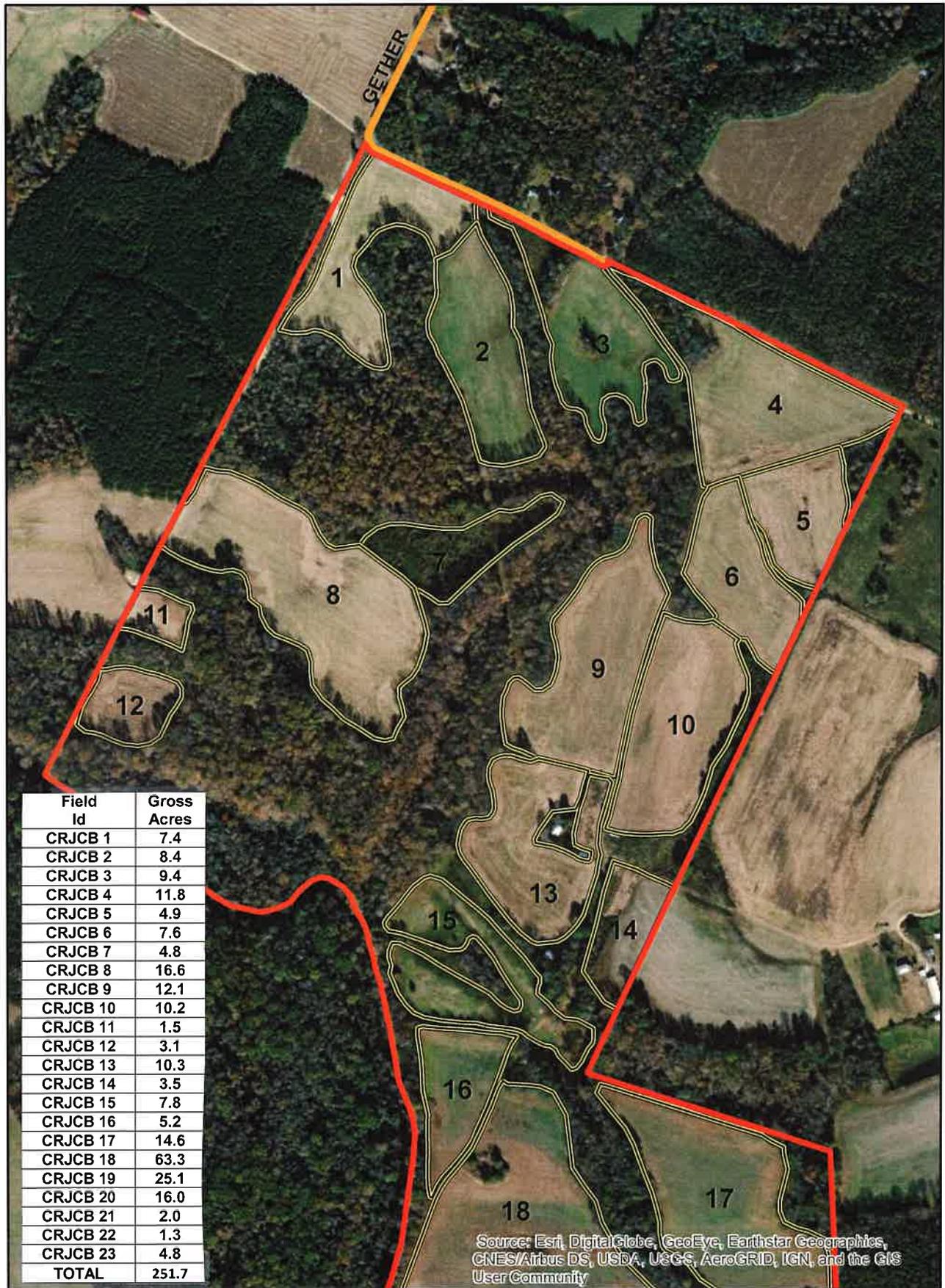
Frequent Flooding
marked in Orange

SOIL MAP

1 in = 660 feet



7-3-19



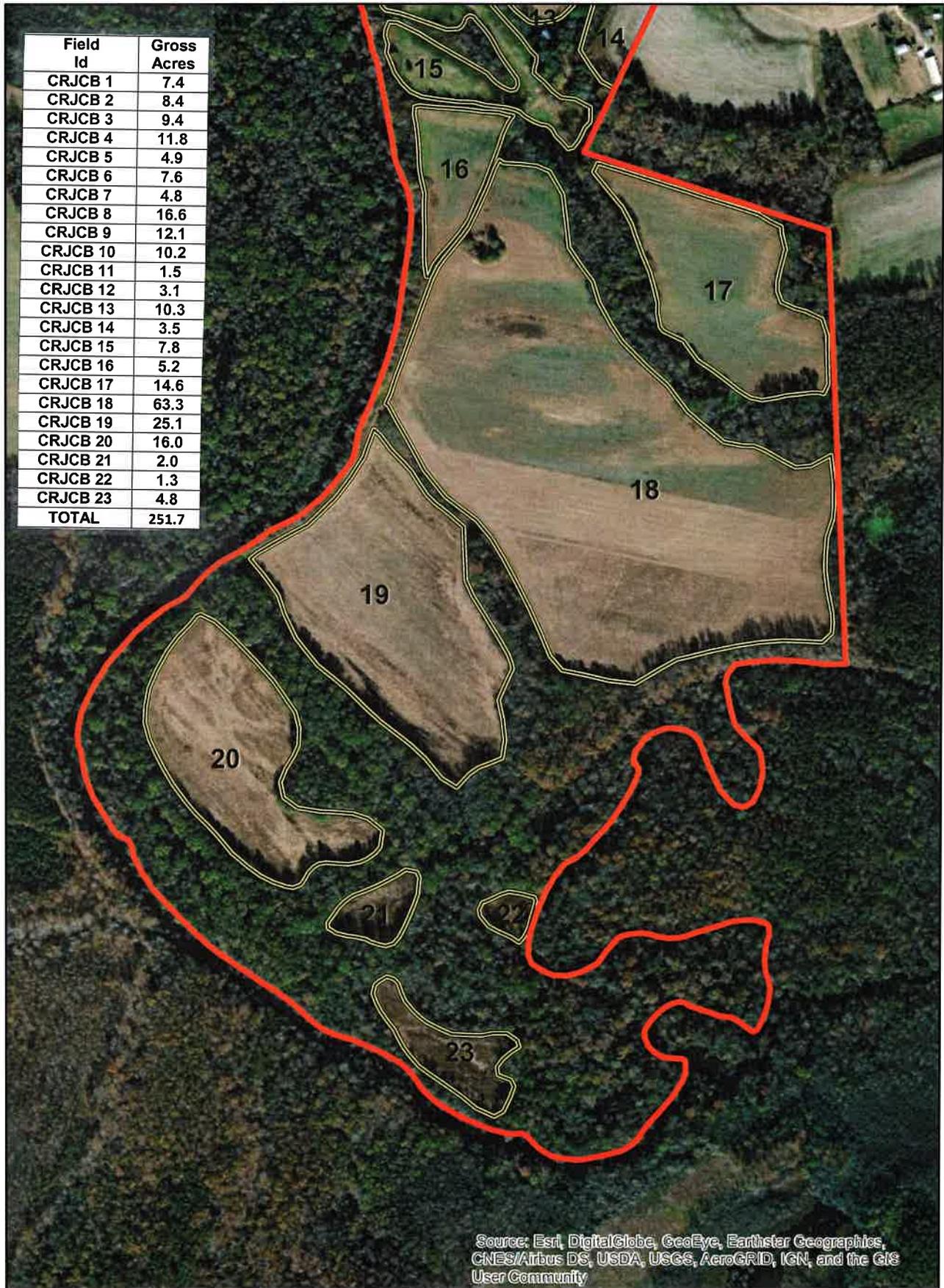
7-3-19

AERIAL MAP

1 in = 660 feet



Field Id	Gross Acres
CRJCB 1	7.4
CRJCB 2	8.4
CRJCB 3	9.4
CRJCB 4	11.8
CRJCB 5	4.9
CRJCB 6	7.6
CRJCB 7	4.8
CRJCB 8	16.6
CRJCB 9	12.1
CRJCB 10	10.2
CRJCB 11	1.5
CRJCB 12	3.1
CRJCB 13	10.3
CRJCB 14	3.5
CRJCB 15	7.8
CRJCB 16	5.2
CRJCB 17	14.6
CRJCB 18	63.3
CRJCB 19	25.1
CRJCB 20	16.0
CRJCB 21	2.0
CRJCB 22	1.3
CRJCB 23	4.8
TOTAL	251.7



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



7-3-19

AERIAL MAP

1 in = 660 feet

Tract 3796

2019 Program Year

Map Created June 05, 2019

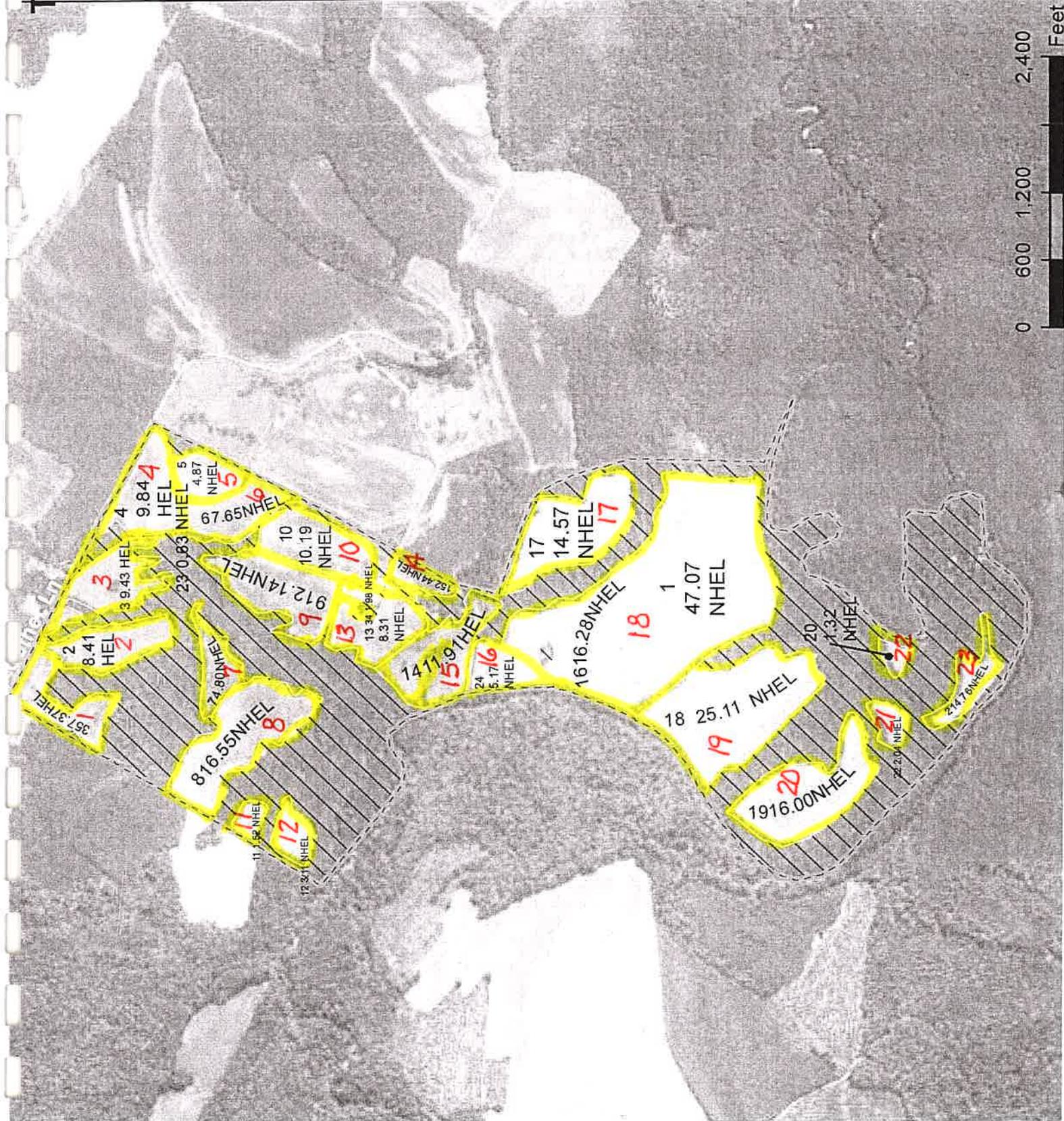
Common Land Unit

- Non-Cropland
- Cropland
- rc_l_va033
- Tract Boundary

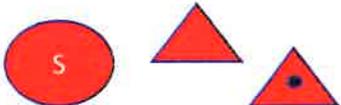
Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conser
- Compliance Provision

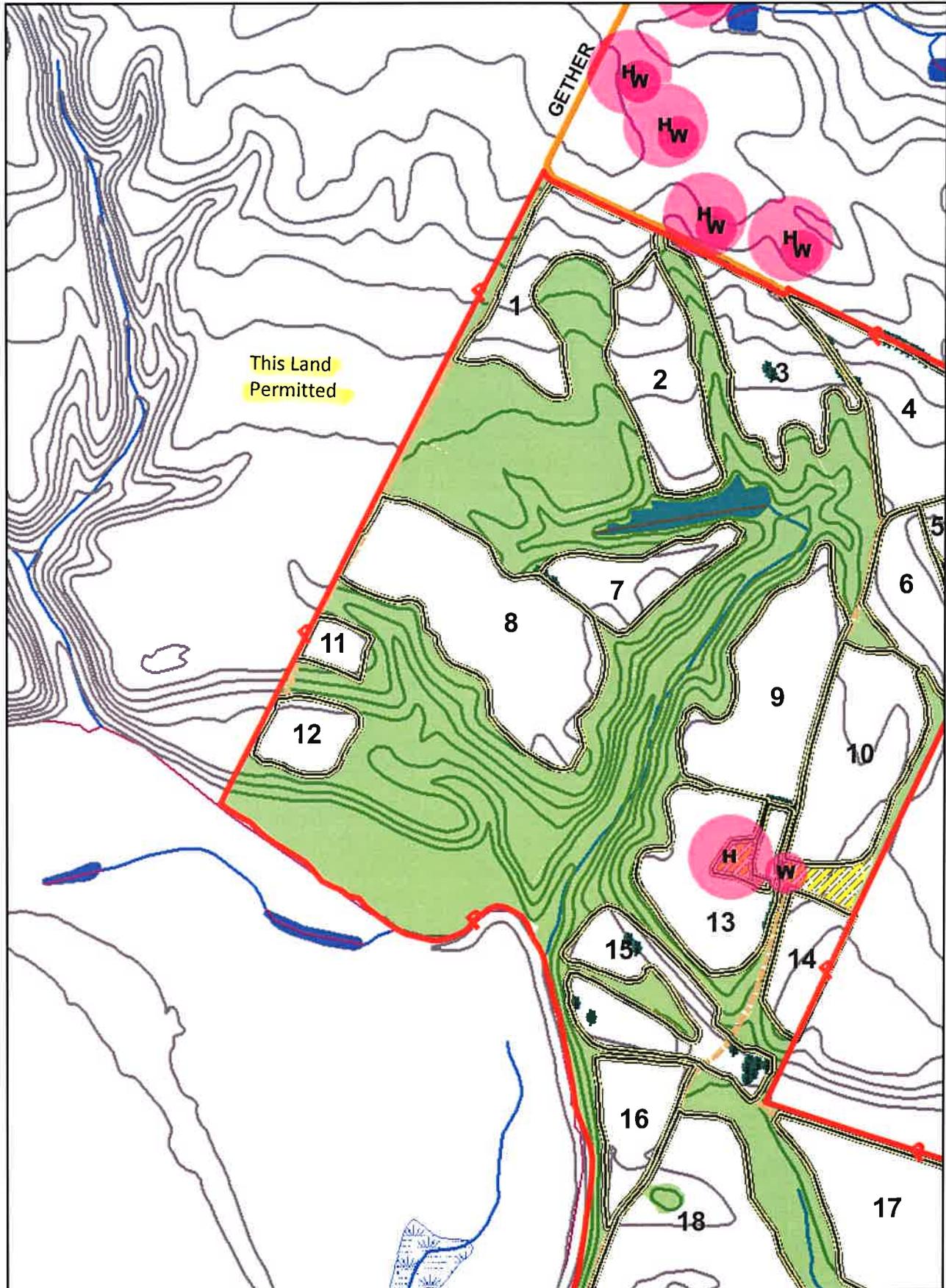
Tract Cropland Total: 253.4



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.



This Land Permitted

GETHER

HW

HW

HW

HW

1

2

3

4

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10

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12

H

W

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16

18

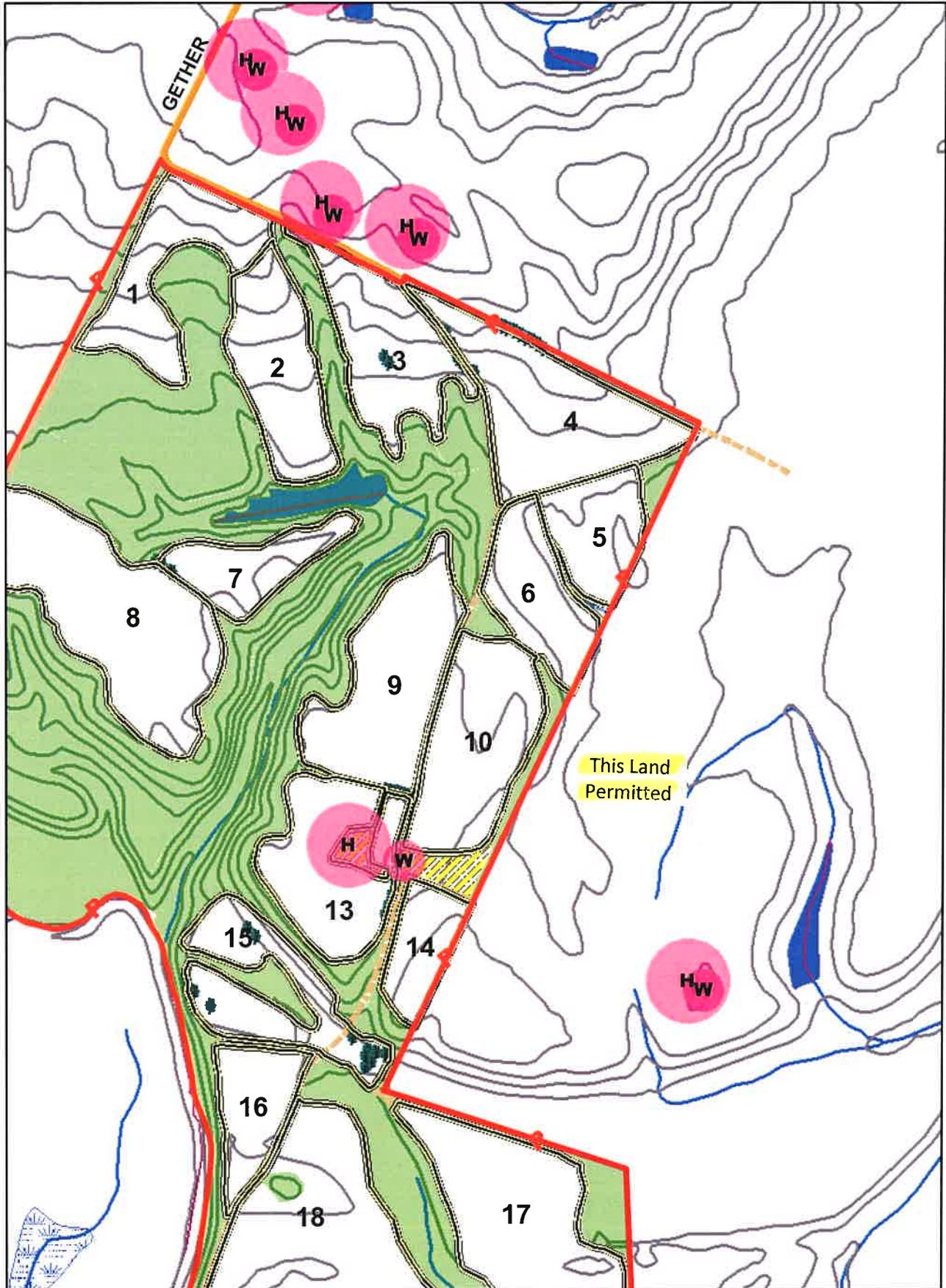
17

7-3-19

SITE PLAN

1 in = 660 feet

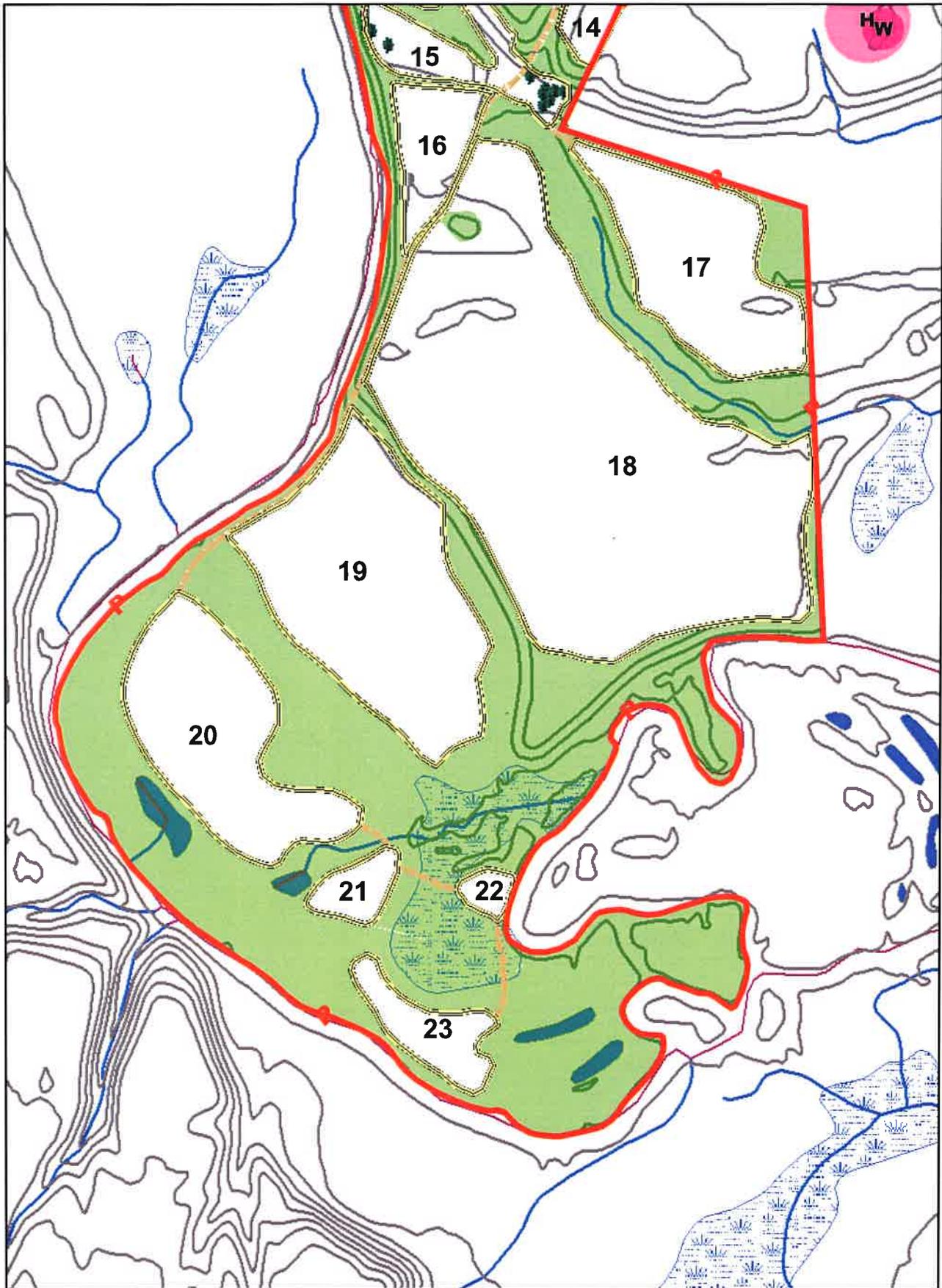




7-3-19

SITE PLAN

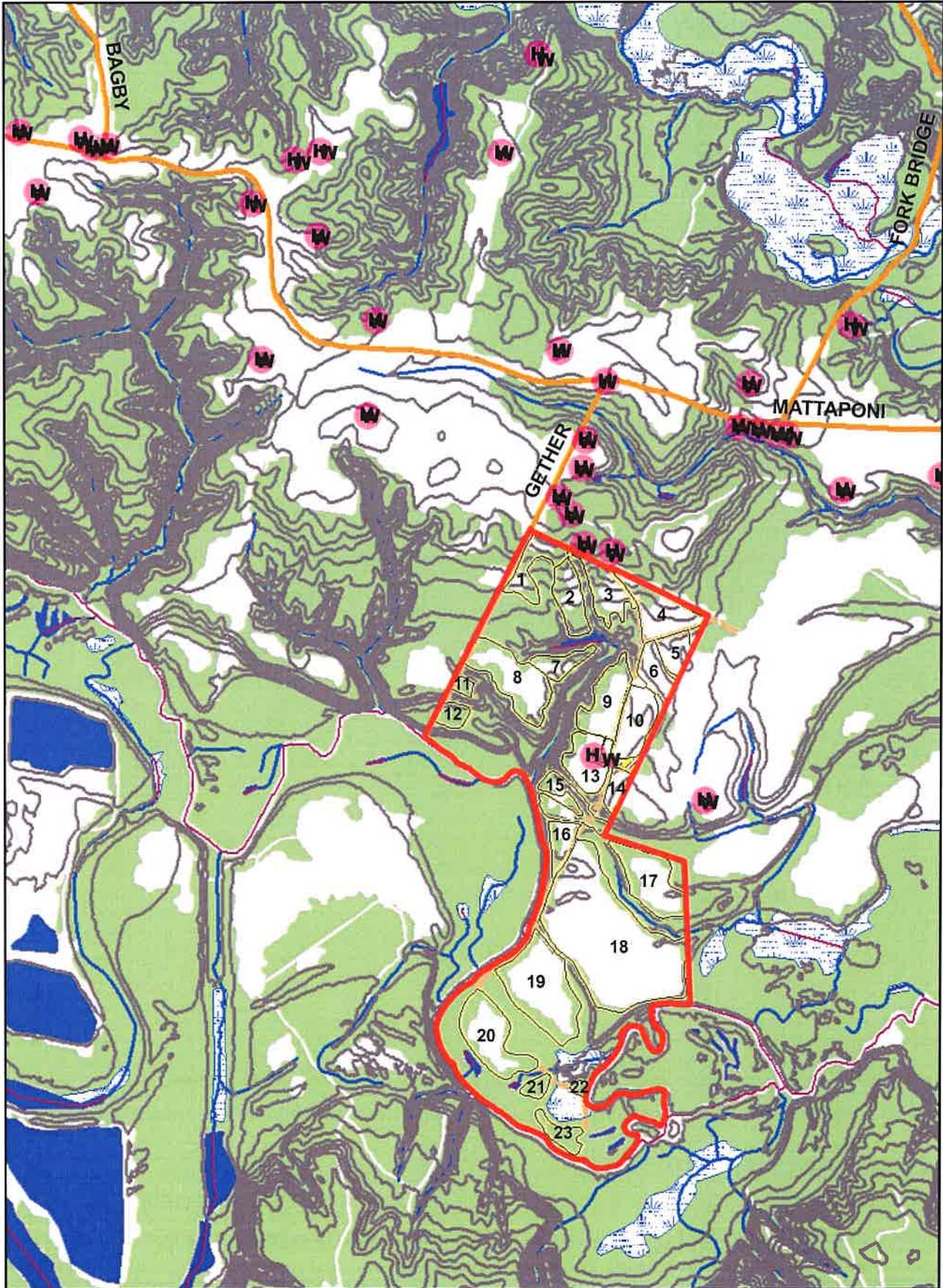
1 in = 660 feet



7-3-19

SITE PLAN

1 in = 660 feet



7-3-19

TOPOGRAPHIC MAP

1 in = 2,000 feet