



LAND APPLICATION OF BIOSOLIDS
WALTER GENTRY

SP 21 (FIELDS 1-17)
SPOTSYLVANIA COUNTY, VIRGINIA
NOVEMBER 2015
REVISED AUGUST 2016



August 8, 2016

Mr. Joe Garner
Department of Environmental Quality
Northern Virginia Regional Office
13901 Crown Court
Woodbridge, VA 22193

Dear Mr. Garner:

Transmitted herein for your consideration is land application site for Walter Gentry (designated as SP21, fields 1-17), located in Spotsylvania County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

A handwritten signature in cursive script that reads "C. Whiteside".

Carolanne M. Whiteside
Technical Services Coordinator

SYNAGRO

FIELD SUMMARY SHEET

Walter Gentry

SP 21

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
21-01	18.9	18.9		Agriculture	Gentry Family, LLC
21-02	13.5	13.5		Agriculture	Gentry Family, LLC
21-03	12.1	12.1		Agriculture	Gentry Family, LLC
21-04	19.1	19.1		Agriculture	Gentry Family, LLC
21-05	14.8	14.8		Agriculture	Gentry Family, LLC
21-06	18.1	18.1		Agriculture	Gentry Family, LLC
21-07	11.2	11.2		Agriculture	Gentry Family, LLC
21-08	16.2	16.2		Agriculture	Gentry Family, LLC
21-09	28.6	28.6		Agriculture	Gentry Family, LLC
21-10	28.3	28.3		Agriculture	Gentry Family, LLC
21-11	21.4	21.4		Agriculture	Donna D Beasley
21-12	14.3	14.3		Agriculture	Donna D Beasley
21-13	10.5	10.5		Agriculture	Donna D Beasley
21-14	10.7	10.7		Agriculture	Ellen B Durette
21-15	7.6	7.6		Agriculture	Ellen B Durette
21-16	8.3	8.3		Agriculture	Ellen B Durette
21-17	12.8	12.8		Agriculture	Gentry Family, LLC
TOTALS:	266.4	266.4			

SYNAGRO

VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR: WALTER GENTRY PHONE: (540) 582-5173
ADDRESS: 8301 LAKE ANNE PKWY SPOTSYLVANIA
FARM LOCATION: SPOTSYLVANIA

FSA TRACT #: _____

TOTAL ACRES: 250 COUNTY: Spotsylvania

CROPS: hay, corn soybeans, small grain

1. I agree to be responsible for adhering to the following conditions, where applicable:
 - a. The soil pH will be adjusted ≥ 6.0 when biosolids are applied. (This may be accomplished through the application of lime-treated biosolids).
 - b. Do not graze animals on the land for 30 days after the application of biosolids. In addition, animals intended for dairy production should not be allowed to graze on the land or be fed chopped foliage for 60 days after the application of biosolids. Meat-producing livestock should not be fed chopped foliage for 30 days after the application of biosolids.
 - c. Food crops for direct human consumption with harvested parts below the surface of the land shall not be harvested for 14 months after the application of biosolids.
 - d. Food crops for direct human consumption 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 ≥ 4 months prior to incorporation into the soil or 38 months when the biosolids remain on the land surface < 4 months prior to incorporation.
 - e. Food crops, feed crops and fiber crops shall not be harvested for 30 days after application of biosolids.
 - f. Public access to land with a low potential for public exposure (land the public uses infrequently including but not limited to agricultural land and forests) shall be restricted for 30 days after application of biosolids. Public access to land with a high potential for public exposure (land the public uses frequently including but not limited to a public contact site such as parks, playgrounds and golf courses) shall be restricted for 1 year. No biosolids-amended soil shall be excavated or removed from the site for 30 days following the biosolids application unless adequate provisions are made to prevent public exposure to soils, dusts or aerosols.
 - g. 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 the permitting authority.
 - h. Supplemental commercial fertilizer or manure applications should be coordinated with the biosolids applications such that the total crop needs for nutrients are not exceeded as identified on the nutrient balance sheet or the nutrient management plan approved by the Virginia Department of Conservation and Recreation to be supplied to the farm operator by Synagro at the time of application of biosolids to a specific permitted site.
 - i. Tobacco, because it has been shown to accumulate cadmium, should not be grown for three years following the application of biosolids-borne cadmium equal to or exceeding 0.45 lbs/acre.
2. I understand that this transaction is not contemplated by the parties to be a sale of goods, and that Synagro is willing to provide to me without charge the service of land applying biosolids which have been approved by the appropriate regulatory agencies for land application.
3. I understand that successful crop production depends on many variables, such as weather, soil conditions and specific farming practices and that while Synagro has experience with land application of biosolids, the responsibility for properly accommodating agricultural practices to biosolids utilization are solely mine. I have also read and understand the "Important Information About Using Biosolids as a Fertilizer" which is on the reverse side and incorporated by reference in this Request and Consent.

Walter Gentry
OPERATOR'S SIGNATURE

Nov 10-15
DATE

Synagro * 10647 Tidewater Trail * Champlain, VA 22438 * 804.443.2170

IMPORTANT INFORMATION ABOUT USING BIOSOLIDS AS A FERTILIZER

Biosolids Generation

Biosolids are the accumulated, treated solids separated from water during the treatment of wastewater by public and private wastewater treatment plants (Generators). The Generator is responsible for supplying biosolids that are suitable for land application under state and federal regulations.

Benefits of Biosolids

Biosolids provide nitrogen in a form that can be taken up by plants during their growth cycle. Biosolids also add phosphorus to the soil. If lime is added to biosolids, the biosolids will have the added benefit of a liming agent. Biosolids contain primary, secondary and micronutrients that can be used by plants. Biosolids are primarily an organic material; when added to soil, they improve water and nutrient retention, reduce erosion potential and improve soil structure.

The Permitting Process

Once the farm operator requests biosolids, a Synagro representative initially evaluates the farm for truck access and field conditions. If the farm is found to be suitable and the Request for Biosolids and the Consent for Biosolids forms are signed, Synagro will collect soil samples and have them analyzed by an independent laboratory.

Synagro will then apply for any federal, state or local permits required for biosolids application. The permits will specifically identify the fields to which biosolids will be applied and will be issued to Synagro or the Generator.

After the permits are obtained (a process that may take several months or more) Synagro will apply biosolids, as they become available, to the fields. Availability of biosolids may vary because of weather conditions, contractual arrangements with biosolids generators and other factors. Although the company cannot guarantee biosolids application because of factors beyond its control, Synagro will use its best efforts to apply biosolids to the permitted fields.

The conditions outlined in the permit will apply to any and all biosolids applications made by Synagro. Synagro will not be responsible for biosolids application made by any other entity.

Periodic visits to the land application site(s) by federal, state and local regulatory staff and Synagro representatives may occur for the purpose of permitting the site, inspecting the site, applying biosolids, obtaining samples at the site and testing. Proper identification will be provided upon request.

Agronomic Considerations

Tractor-trailer units are used to deliver biosolids to the fields approved for biosolids applications. Soil compaction may occur on the travel areas used by the trucks and in areas where biosolids are unloaded for transfer to the applicator vehicle.

Since some biosolids contain lime, it is important to recognize any increase in soil pH where biosolids have been applied and exercise care in using certain herbicides. If considering the use of a sulfonylurea herbicide, particular attention should be paid to any label restrictions. High soil pH and dry weather may slow decomposition of these chemicals, resulting in carryover. For soils with low manganese levels, increased soil pH from lime addition (alone or in lime treated biosolids) may reduce manganese availability and thereby potentially reduce crop yields.

In planning a herbicide program, it should be noted that seeds may sometimes survive the biosolids treatment process – for example, tomato seeds. Also, the organic matter additions from biosolids application (organic matter tends to tie up certain herbicides) may require increased herbicide application rates. Consult your extension agent or chemical representative for a specific recommendation.

Biosolids contain salts. Biosolids applications alone rarely cause salt problems. However, if combined with other significant salt-increasing factors, such as drought, excessive soil compaction, saline irrigation water and salt-contain fertilizers, salts may reach levels that could negatively affect germination and growth of some crops.

While odors from biosolids applications are not usually significant, and typically less than that from livestock manure, it is possible that an odor from the decomposition of organic matter may be noticed. If this occurs, it generally disappears in a short time.

Since biosolids provide nitrogen that will be released slowly throughout the growing season with diminishing carry-over in subsequent years, it is important to reduce the use of nitrogen and other fertilizers to appropriate levels.

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

SP 21

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 11-10-15 between Gentry Family LLC referred to here as "Landowner", and Synagro, 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 Spotsylvania 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
47-A-38	70-A-92F		
47-A-39	70-A-92H		
47-A-40	71-A-67		
47-A-41	47-A-37A		
82-A-17			

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>
X Yes <input type="checkbox"/> No			

Gentry Family LLC Walter Heston 8301 Lake Manor Pkwy
 Landowner - Printed Name, Title Signature Mailing Address

Permittee:

Synagro, 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.

X 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)

Jeff Douthett Jeff Douthett 10647 Tidewater Trail
 Permittee - Authorized Representative Signature Mailing Address
 Printed Name

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

Permittee: Synagro County or City: Spotsylvania
Landowner: The Gentry Family LLC

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).

Walter Gentry 11-10-15
Landowner's Signature Date

Permittee: Synagro County or City: Spotsylvania
 Landowner: Ellen B Durette

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).

Ellen B. Durette

Landowner's Signature

11-11-15

Date

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

SP 21

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on Nov 11 '15 between Donna D. Beasley referred to here as "Landowner", and Synagro, 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 Spotsylvania 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.

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>73-A-9</u>			

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

Check one:

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

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

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

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

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

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

Donna D. Beasley Donna D. Beasley 5122 Partlow Rd, Partlow VA 22534
 Landowner - Printed Name, Title Signature Mailing Address

Permittee:

Synagro, 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.

X 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)

Jeff Doolittle Jeff Doolittle 10647 Tidewater Trail
 Permittee - Authorized Representative Signature Mailing Address
 Printed Name

Please sign both pages

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

Permittee: Synagro County or City: Spotsylvania
Landowner: Donna D Beasley

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:

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2. Public Access
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 - 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 Donna D Beasley
Landowner's Signature

Nov 11, 2015
Date

Termination of Land Application Agreement – Biosolids and Industrial Residuals

Current Permittee Name: Recyc Inc

County: Spotsylvania

I, Donna D Beasley, hereby terminate the "Land Application Agreement –
(Landowner)

Biosolids and Industrial Residuals" executed on _____ between myself and
(Date, if known)

Recyc Inc pertaining to the land application of permitted
(Current Permittee Name)

biosolids/residuals on the parcel(s) identified below:

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
73-A-9		
73-A-9		

A copy of this termination of Land Application Agreement has been sent to the current permittee named above.

Donna D. Beasley
Landowner – Printed Name

+ Donna D. Beasley
Landowner's Signature

11-11-15
Date

Termination of Land Application Agreement – Biosolids and Industrial Residuals

Current Permittee Name: Recyc Inc

County: Spotsylvania

I, Ellen B Durette, hereby terminate the "Land Application Agreement –
(Landowner)

Biosolids and Industrial Residuals" executed on — between myself and
(Date, if known)

Recyc pertaining to the land application of permitted
(Current Permittee Name)

biosolids/residuals on the parcel(s) identified below:

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>73-A-7</u>		

A copy of this termination of Land Application Agreement has been sent to the current permittee named above.

ELLEN B. DURRETTE
* Landowner – Printed Name

Ellen B. Durette
* Landowner's Signature

11-11-15
* Date

Termination of Land Application Agreement – Biosolids and Industrial Residuals

Current Permittee Name: Recyc, Inc

County: Spotylvania

I, Gentry Farm, LLC, hereby terminate the "Land Application Agreement –
(Landowner)

Biosolids and Industrial Residuals" executed on _____ between myself and
(Date, if known)

Recyc, Inc pertaining to the land application of permitted
(Current Permittee Name)

biosolids/residuals on the parcel(s) identified below:

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
47- A -38	70-A-92F	
47-A-39	70-A-92H	
47-A-40	71-A-67	
47-A-41		
82-A-17		

A copy of this termination of Land Application Agreement has been sent to the current permittee named above.

Walter Gentry
Landowner – Printed Name

Walter Gentry
Landowner's Signature

11-10-15
Date

Termination of Land Application Agreement – Biosolids and Industrial Residuals

Current Permittee Name: Recyc, Inc

County: Spotsylvania

I, Gentry Family, LLC, hereby terminate the "Land Application Agreement –
(Landowner)

Biosolids and Industrial Residuals" executed on _____ between myself and
(Date, if known)

Recyc, Inc pertaining to the land application of permitted
(Current Permittee Name)

biosolids/residuals on the parcel(s) identified below:

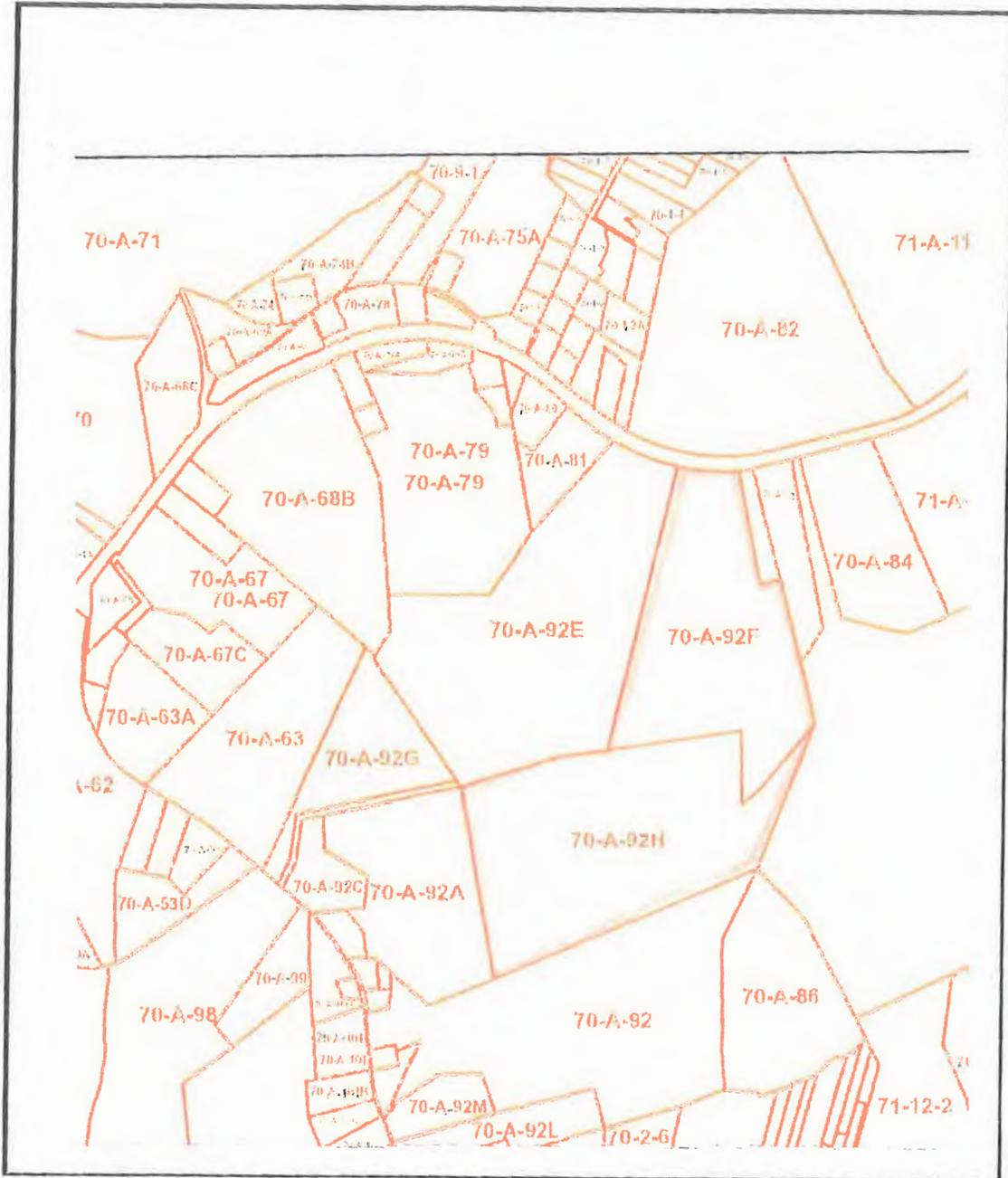
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
47-A-38	70-A-92F	
47-A-39	70-A-92H	
47-A-40	71-A-67	
47-A-41		
82-A-17		
47-A-37A		

A copy of this termination of Land Application Agreement has been sent to the current permittee named above.

Walter Gentry
Landowner – Printed Name

Walter Gentry
Landowner's Signature

11-10-15
Date



TAX MAP



Farm Summary Report

Plan: New Plan Spring, 2016 - Summer, 2017

Farm Name: SP 21
Location: Spotsylvania
Specialist: Jeffery R Douthit
N-based Acres: 205.9
P-based Acres: 0.0

Tract Name: A
FSA Number: 0
Location: Spotsylvania

Field Name: 1
Total Acres: 18.90 **Usable Acres:** 18.90
FSA Number: 0
Tract: A
Location: Spotsylvania
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
66	20B	Faceville Marlboro
18	18C	Emporia
15	13C2	Cecil Pacolet
1	1B	Abell

Field Warnings:

Field Name: 2
Total Acres: 13.50 **Usable Acres:** 13.50
FSA Number: 0
Tract: A
Location: Spotsylvania
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
15	1B	Abell
7	12B	Cecil
10	13C2	Cecil Pacolet
5	14B	Colfax
15	18C	Emporia
10	20B	Faceville Marlboro
25	22B	Fluvanna
12	33B	Iredell Orange
1	34B	Partlow

Field Warnings:

Field Name: 3
Total Acres: 12.10 Usable Acres: 12.10
FSA Number: 0
Tract: A
Location: Spotsylvania
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
15	1B	Abell
27	4C2	Appling Wedowee
20	12B	Cecil
24	13C2	Cecil Pacolet
4	14B	Colfax
5	20B	Faceville Marlboro
1	23	Fluvaquents Udifluvents
2	29B	Masada
2	34B	Partlow

Field Warnings:

Field Name: 4
 Total Acres: 19.10 Usable Acres: 0.00
 FSA Number: 0
 Tract: A
 Location: Spotsylvania
 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
40	22C2	Fluvanna
25	4C2	Appling Wedowee
22	6	Aquults
5	2B	Altavista
2	14B	Colfax
4	33B	Iredell Orange
2	34B	Partlow

Field Warnings:

Tract Name: B
 FSA Number: 0
 Location: Spotsylvania

Field Name: 5
 Total Acres: 14.80 Usable Acres: 14.80
 FSA Number: 0
 Tract: B
 Location: Spotsylvania
 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
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Soils:

PERCENT	SYMBOL	SOIL SERIES
40	3B	Appling
60	4C2	Appling Wedowee

Field Warnings:

Field Name: 6
Total Acres: 18.10 Usable Acres: 18.10
FSA Number: 0
Tract: B
Location: Spotsylvania
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
62	4C2	Appling Wedowee
25	3B	Appling
13	1B	Abell

Field Warnings:

Field Name: 7
Total Acres: 11.20 Usable Acres: 11.20
FSA Number: 0
Tract: B
Location: Spotsylvania
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
10	1B	Abell
60	3B	Appling
30	4C2	Appling Wedowee

Field Warnings:

Field Name: 8
Total Acres: 16.20 Usable Acres: 16.20
FSA Number: 0
Tract: B
Location: Spotsylvania
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
45	4C2	Appling Wedowee
35	3B	Appling
20	1B	Abell

Field Warnings:

Field Name: 9
Total Acres: 28.60 Usable Acres: 0.00
FSA Number: 0
Tract: B
Location: Spotsylvania
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
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Soils:

PERCENT	SYMBOL	SOIL SERIES
6	1B	Abell
65	3B	Appling
27	4C2	Appling Wedowee
1	14B	Colfax
1	36B	Savannah

Field Warnings:

Field Name: 10
Total Acres: 28.30 Usable Acres: 28.30
FSA Number: 0
Tract: D
Location: Spotsylvania
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
15	1B	Abell
20	2B	Altavista
60	4C2	Appling Wedowee
1	14B	Colfax
4	18B	Emporia

Field Warnings:

Field Name: 11
Total Acres: 21.40 Usable Acres: 21.40
FSA Number: 0
Tract: D
Location: Spotsylvania
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
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Soils:

PERCENT	SYMBOL	SOIL SERIES
55	4C2	Appling Wedowee
42	3B	Appling
3	1B	Abell

Field Warnings:

Field Name: 12
Total Acres: 14.30 Usable Acres: 14.30
FSA Number: 0
Tract: D
Location: Spotsylvania
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
18	1B	Abell
38	3B	Appling
44	4C2	Appling Wedowee

Field Warnings:

Field Name: 13
Total Acres: 10.50 Usable Acres: 10.50
FSA Number: 0
Tract: D
Location: Spotsylvania
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
55	4C2	Appling Wedowee
7	1B	Abell
30	3B	Appling
8	36B	Savannah

Field Warnings:

Field Name: 14
 Total Acres: 10.70 Usable Acres: 10.70
 FSA Number: 0
 Tract: D
 Location: Spotsylvania
 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
10	1B	Abell
40	3B	Appling
50	4C2	Appling Wedowee

Field Warnings:

Field Name: 15
 Total Acres: 7.60 Usable Acres: 7.60
 FSA Number: 0
 Tract: D
 Location: Spotsylvania
 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
------	----	---	---	-----

Soils:

PERCENT	SYMBOL	SOIL SERIES
70	4C2	Appling Wedowee
16	1B	Abell
8	3B	Appling
6	14B	Cofax

Field Warnings:

Field Name: 16
Total Acres: 8.30 **Usable Acres:** 8.30
FSA Number: 0
Tract: D
Location: Spotsylvania
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
55	3B	Appling
45	4C2	Appling Wedowee

Field Warnings:

Field Name: 17
Total Acres: 12.80 Usable Acres: 12.80
FSA Number: 0
Tract: A
Location: Spotsylvania
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
74	20B	Faceville Marlboro
19	20C2	Faceville Marlboro
3	13C2	Cecil Pacolet
2	14B	Colfax
2	18B	Emporia

Field Warnings:

ENVIRONMENTALLY SENSITIVE AREAS

Field	Reason for Sensitive Area
21-01	None
21-02	High Water Table (Map Units 14B, 33B & 34B - 17%) Frequent Flooding (Map Unit 34B - 1%)
21-03	High Water Table (Map Units 14B, 23 & 34B - 7%) Frequent Flooding (Map Units 23 & 34B - 3%)
21-04	High Water Table (Map Units 2B, 6, 14B, 33B & 34B - 35%) Frequent Flooding (Map Units 2B & 34B - 7%)
21-05	None
21-06	None
21-07	None
21-08	None
21-09	High Water Table (Map Units 14B & 36B - 2%)
21-10	High Water Table (Map Units 2B & 14B - 21%) Frequent Flooding (Map Unit 2B - 20%)
21-11	None
21-12	None
21-13	High Water Table (Map Unit 36B - 8%)
21-14	None
21-15	High Water Table (Map Unit 14B - 6%)
21-16	None
21-17	High Water Table (Map Unit 14B - 2%)

Spotsylvania County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
2B	Altavista	Dec – March	April – July	
5, 6, 7B	Aquults	Dec – April		
10	Cartecay	Jan – April	Dec – March	Leaching
14B, 14C	Colfax	Nov – June		
16	Dogue	Jan – March		
17C, 17D, 17E	Dystrochrepts	Nov – April		Leaching
23	Fluvaquents	Nov – Jan	Nov – Jan	
27C, 27D, 27E	Louisburg			Leaching
28B	Margo	Nov – March		
33B, 33C2	Orange	Dec – May		
34B	Partlow	Nov – May	Jan – Dec	
36A, 36B	Savannah	Dec – May		
40	Tetotum	Dec – March		
42B	Toddstav	Nov – May		
47E	Watt			Shallow

Map Legend



House/Dwelling with a well

- 200' buffer-dwelling (with conditions for reduction);
- 100' buffer-well



Rock Outcrop

- 25' buffer



Limestone Outcrop / Closed Sinkholes

- 50' buffer



Well

- 100' buffer



Lake/Pond

- 35' w/vegetative buffer; 100' without vegetative buffer



Slope which exceeds 15%



"PAS" - Publicly Accessible Site

- 200' buffer



Intermittent Stream

- 35' w/vegetative buffer; 100' without vegetative buffer



Stream/River

- 35' w/vegetative buffer; 100' without vegetative buffer



Agricultural/Drainage Ditch

- 10' buffer

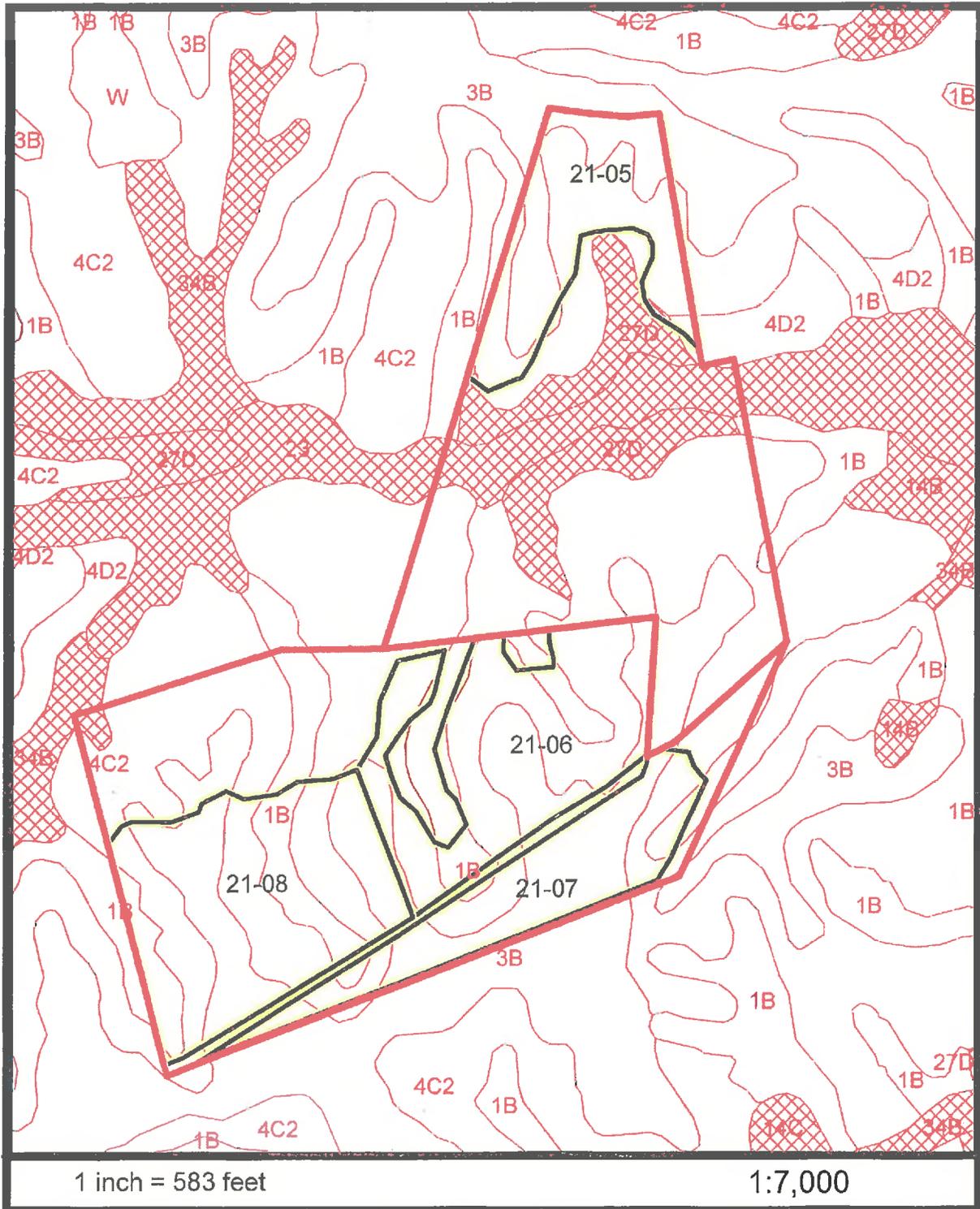


Field Boundary



Property Line

- 100' buffer unless waiver issued

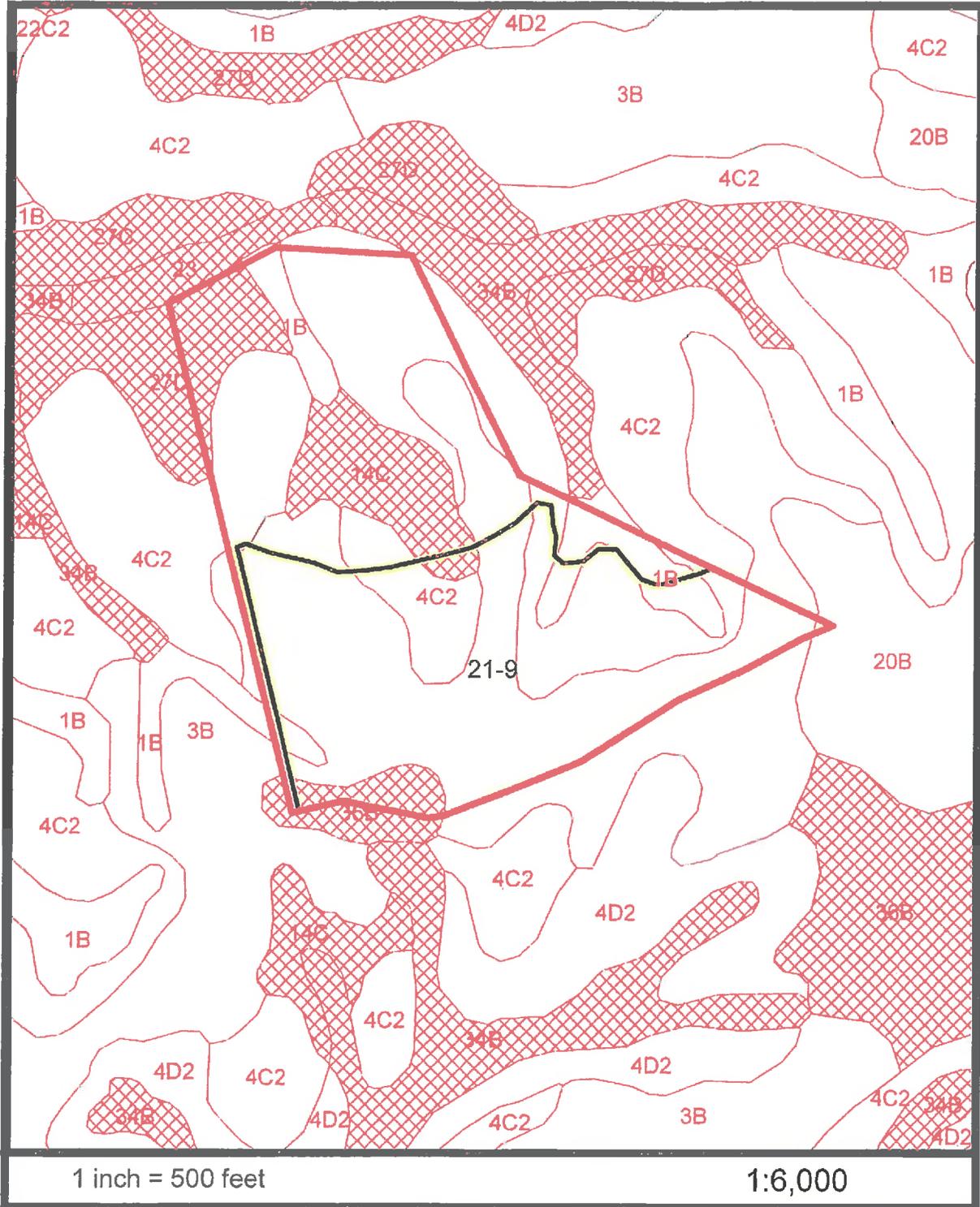


SOIL MAP

CREATED 12-4-2015



Environmentally Sensitive Areas

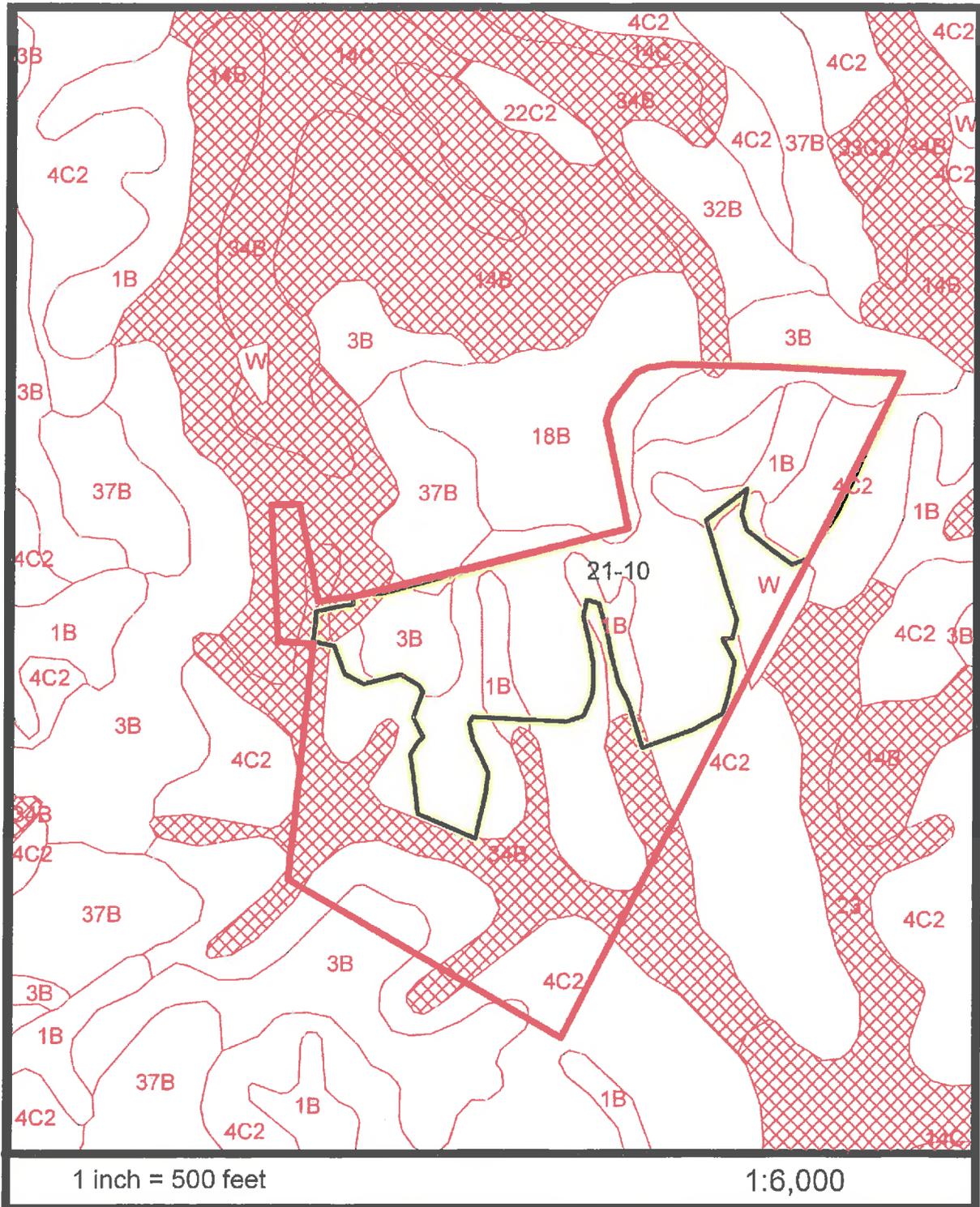


SOIL MAP

CREATED 12-4-2015



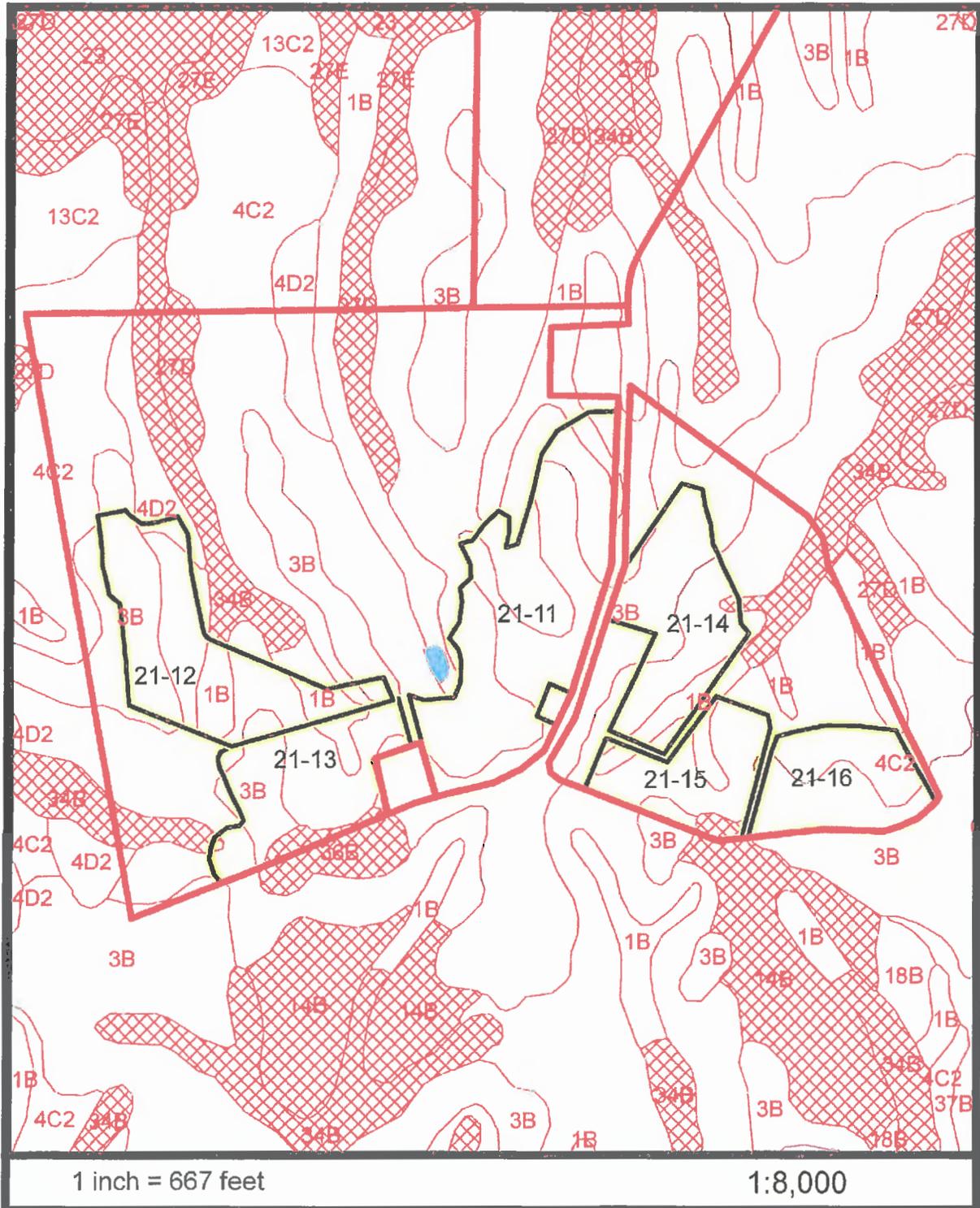
Environmentally Sensitive Areas



SOIL MAP

CREATED 11-20-2015

 Environmentally Sensitive Areas



SOIL MAP

CREATED 12-4-2015



Environmentally Sensitive Areas



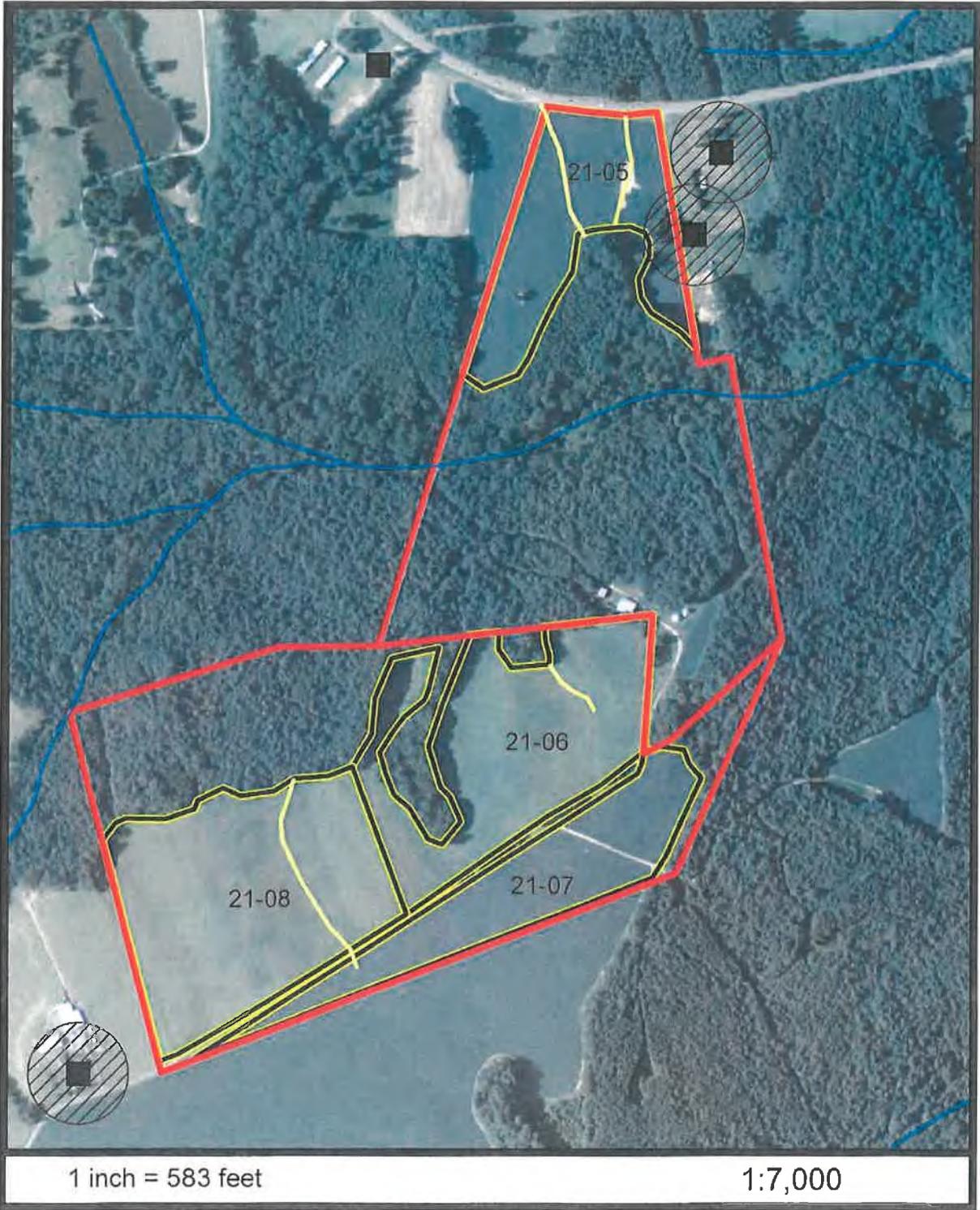
SYNAGRO

Walter Gentry
SP 21
Field 1-4, 17



AERIAL MAP

REVISED 8-11-16



AERIAL MAP

CREATED 12-4-2015



AERIAL MAP

CREATED 12-4-2015



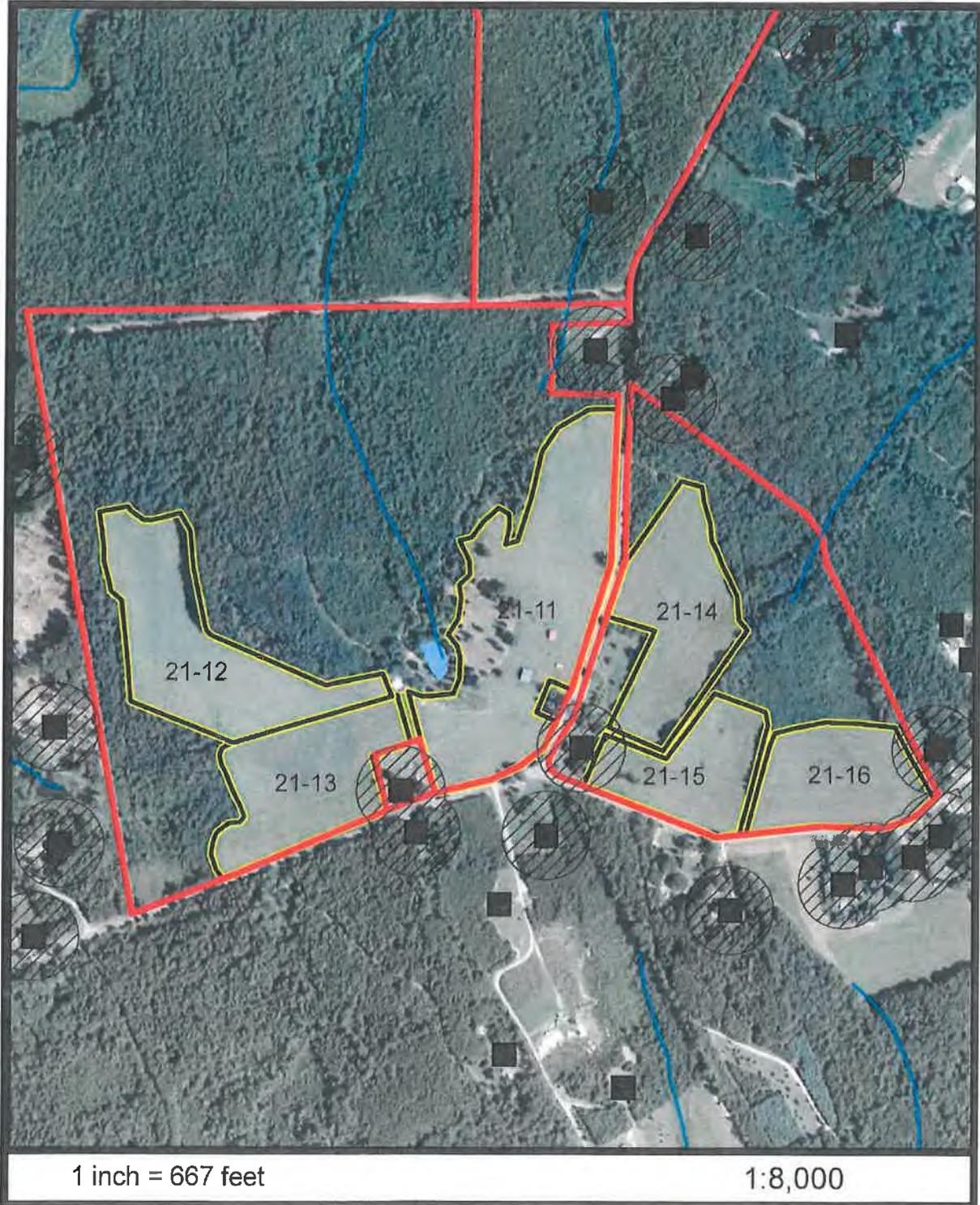
SYNAGRO

Walter Gentry
SP 21
Field 10



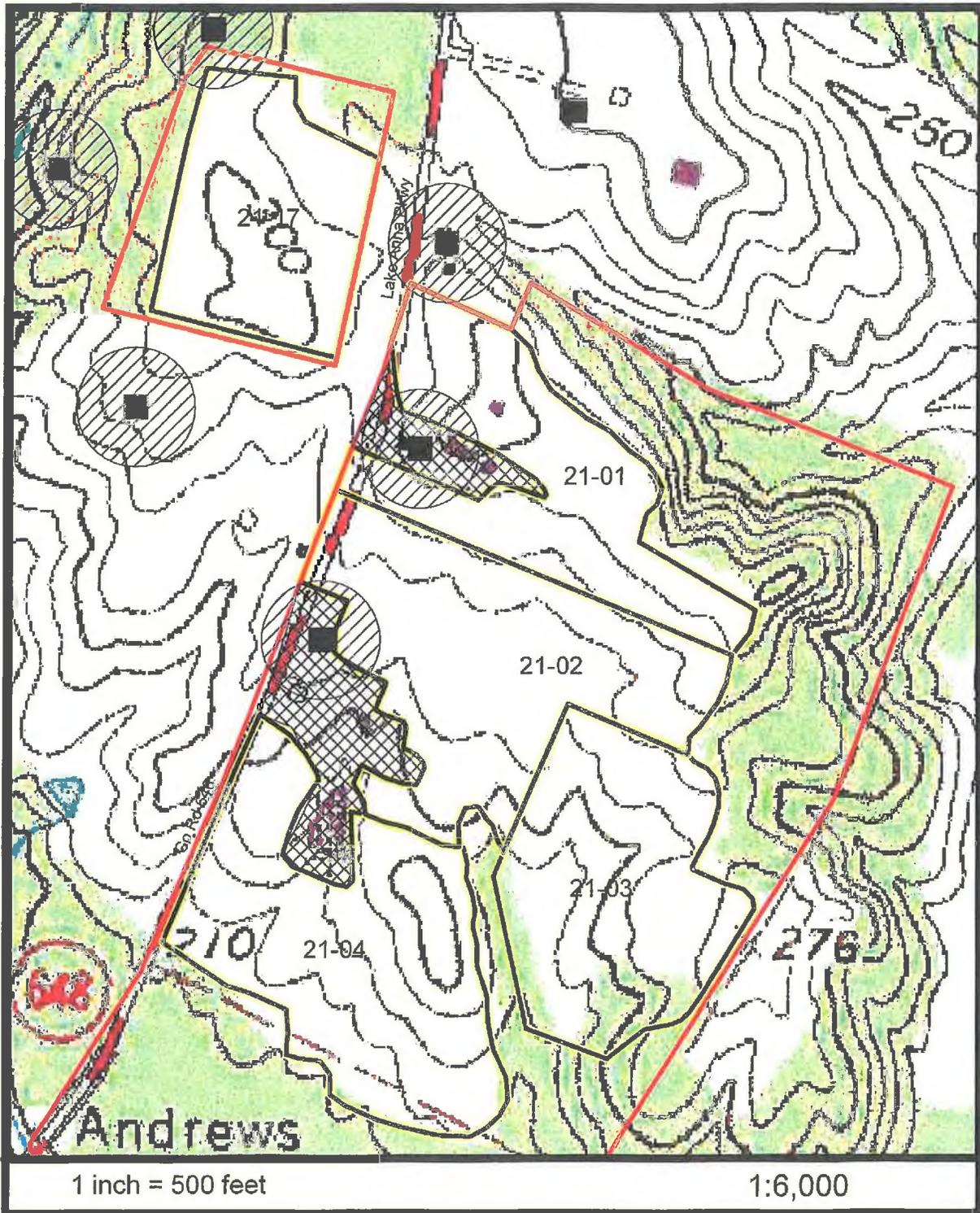
AERIAL MAP

CREATED 11-20-2015



AERIAL MAP

CREATED 12-4-2015



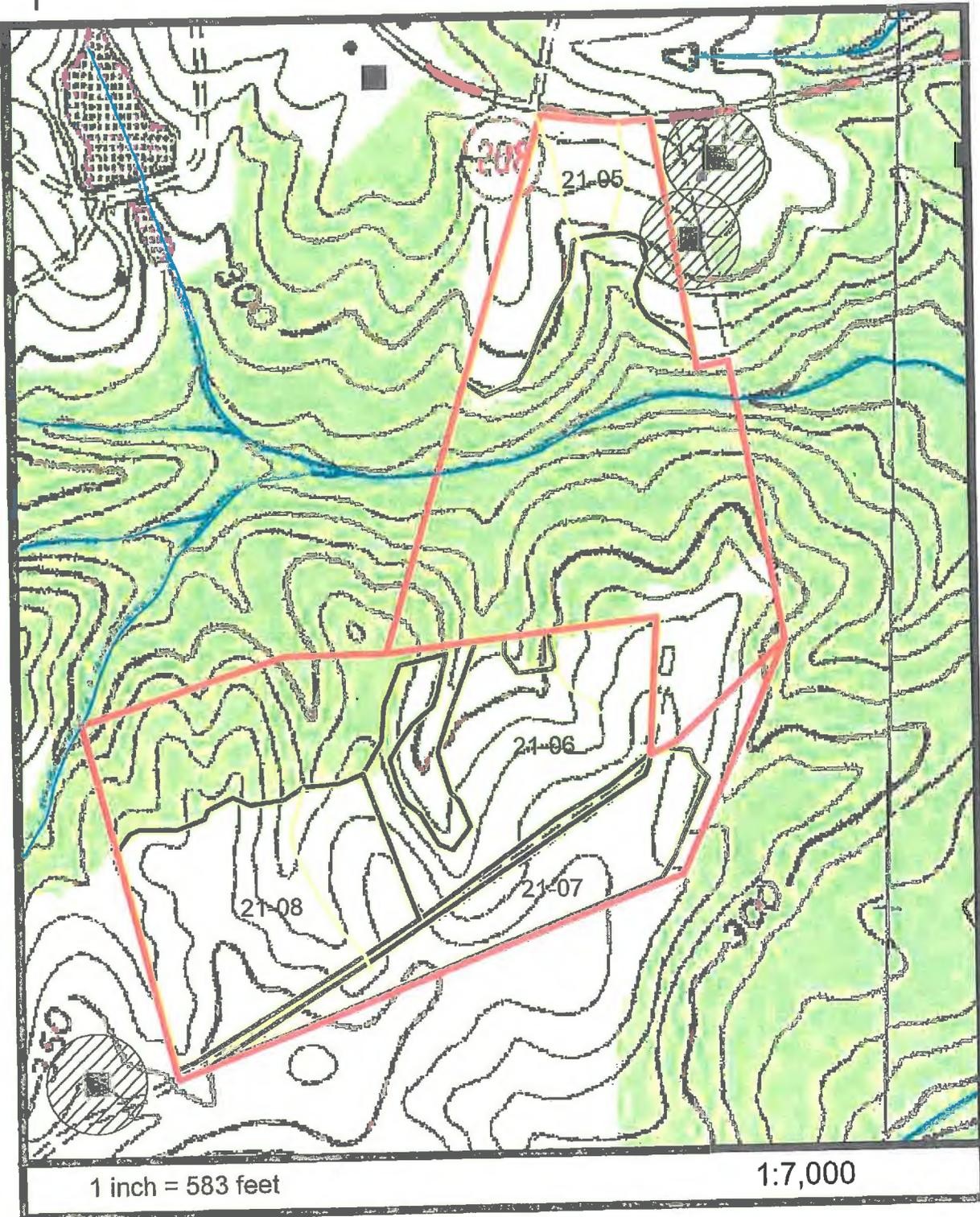
FIELD	ACRES
21-01	15.4
21-02	8.5
21-03	15.7
21-04	12.2
21-17	12.8

TOPO MAP

REVISED 8-11-16

SYNAGRO

Water Gentry
SP 21
Fields 5-8



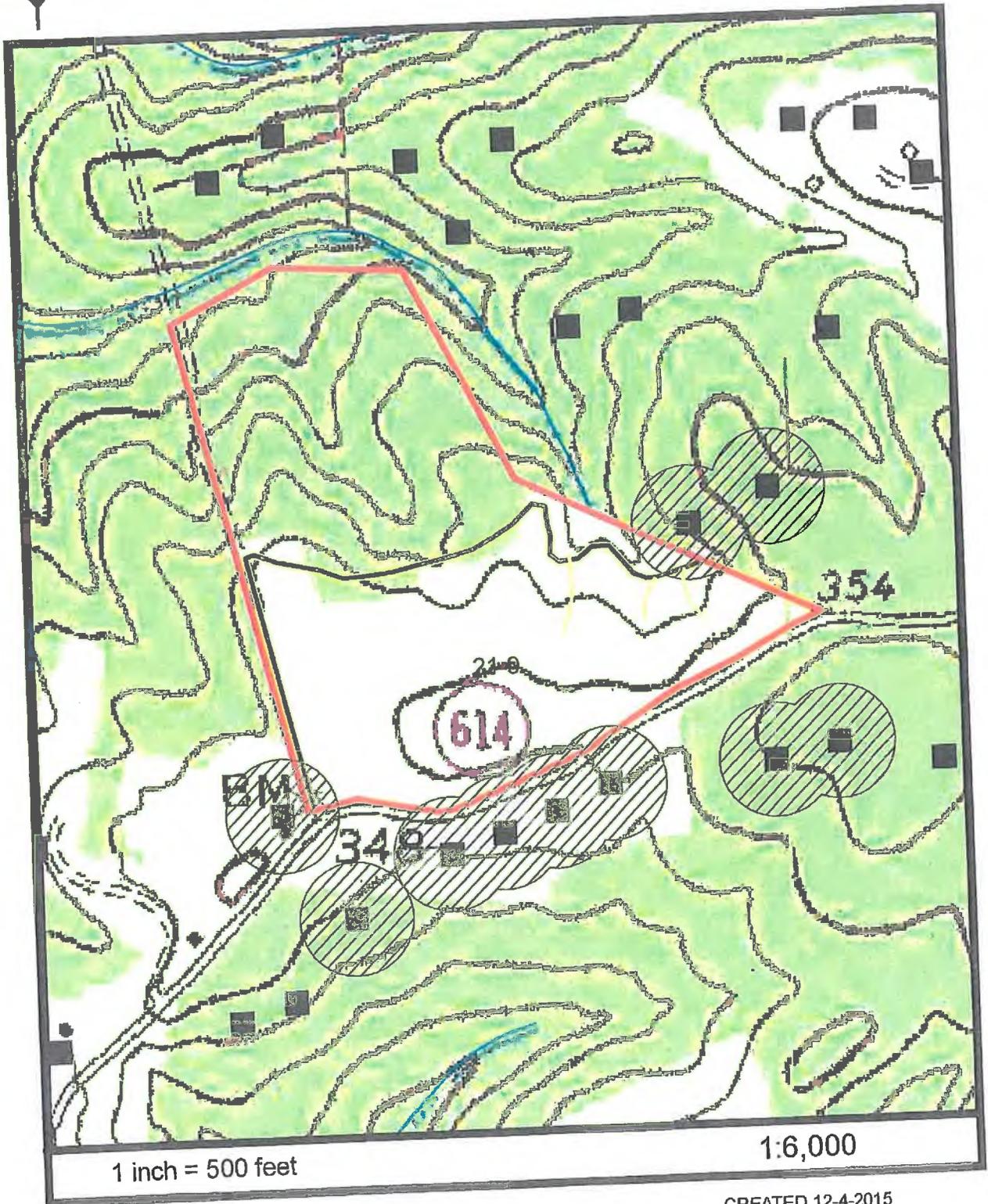
TOPO MAP

CREATED 12-4-2015

FIELD	ACRES
20-05	19.3
20-06	9.4
20-07	15.5
20-08	21.5

SYNAGRO

Waler Gentry
SP 21
Field 9



FIELD	ACRES
21-09	28.6

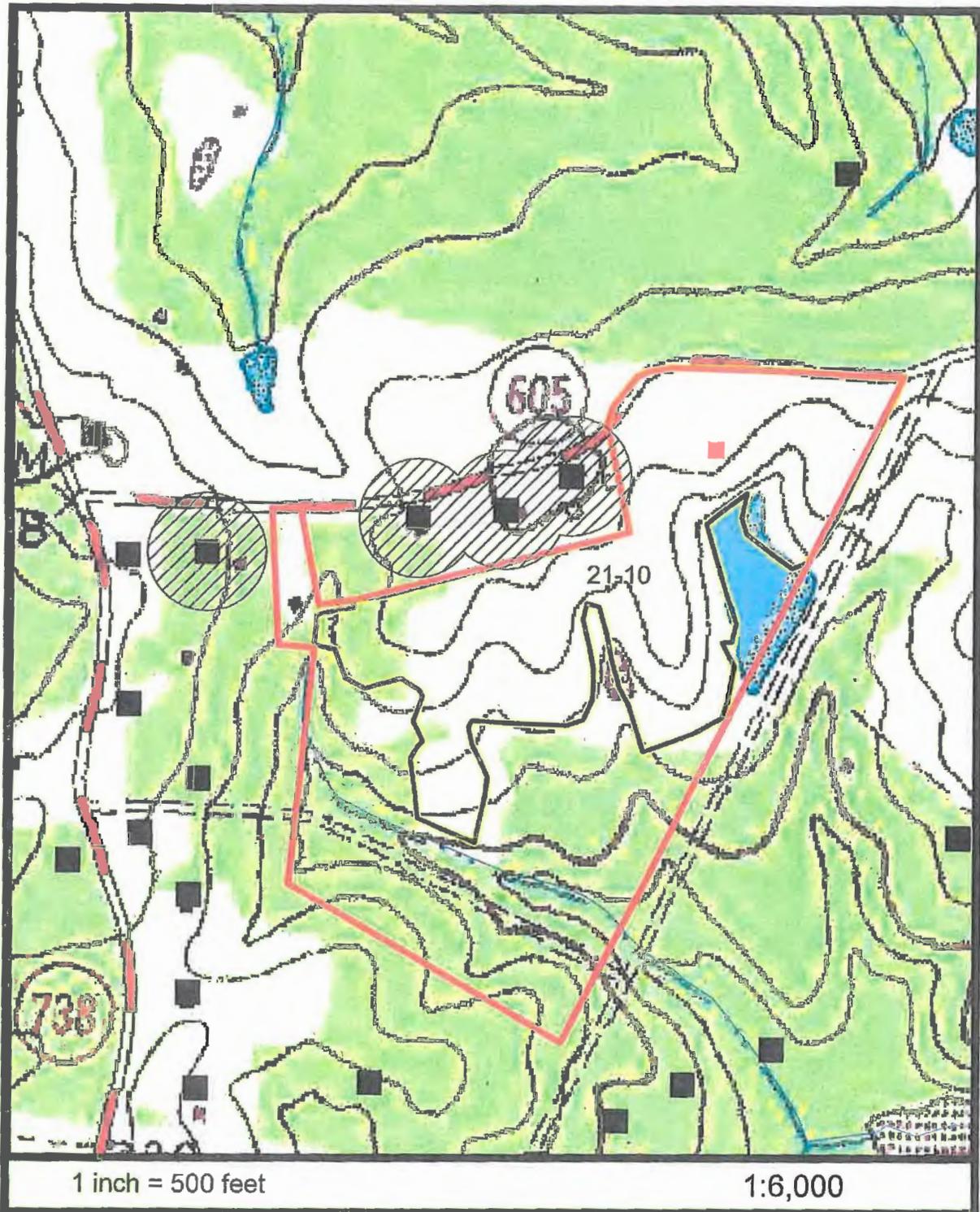
TOPO MAP

CREATED 12-4-2015



SYNAGRO

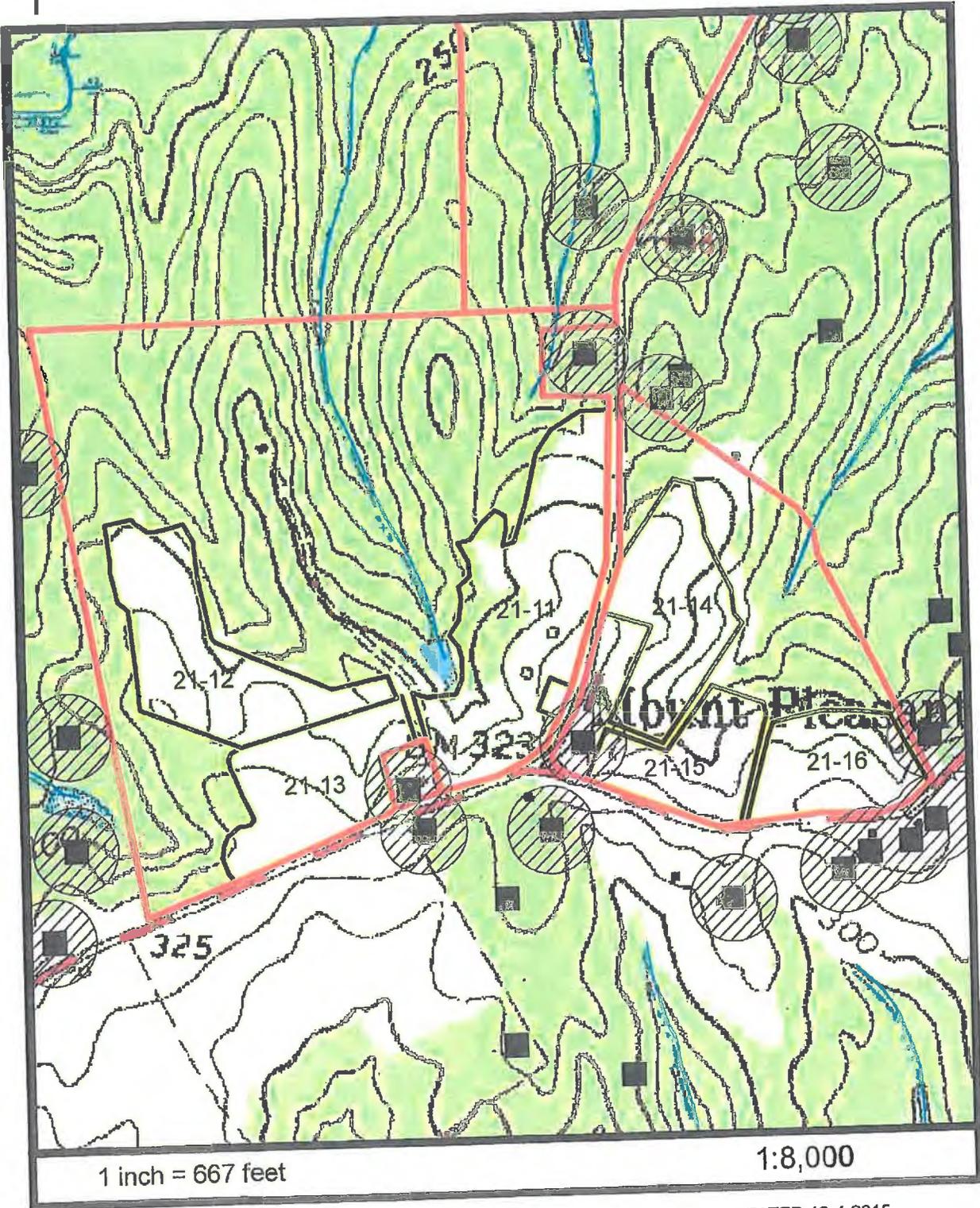
Walter Gentry
SP 21
Field 10



FIELD	ACRES
21-10	28.3

TOPO MAP

CREATED 11-20-2015



TOPO MAP

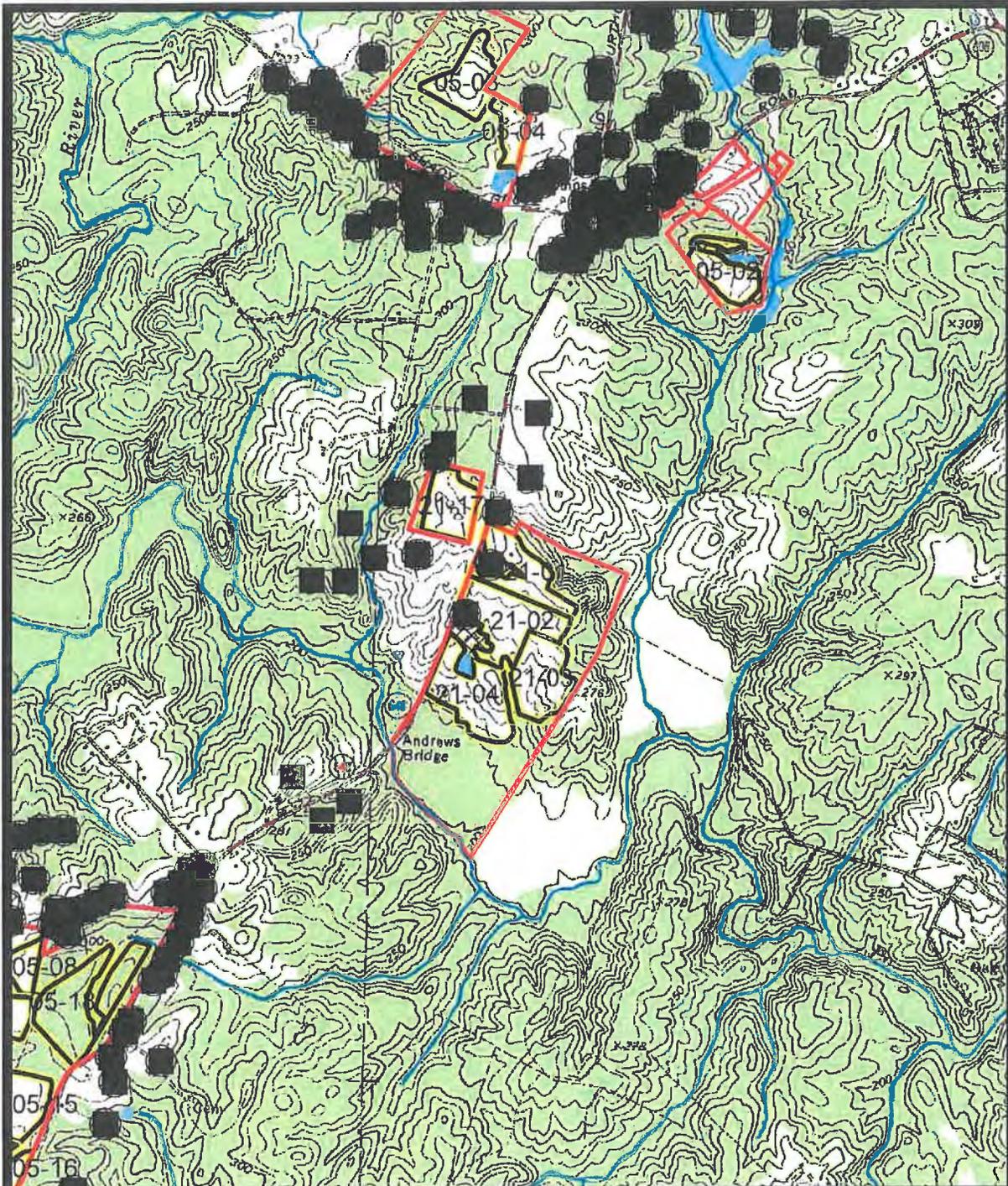
CREATED 12-4-2015

FIELD	ACRES
21-11	21.4
21-12	14.3
21-13	10.5

FIELD	ACRES
21-14	10.7
21-15	7.6
21-16	8.3

SYNAGRO

Walter Gentry
SP 21
Fields 1-4, 17

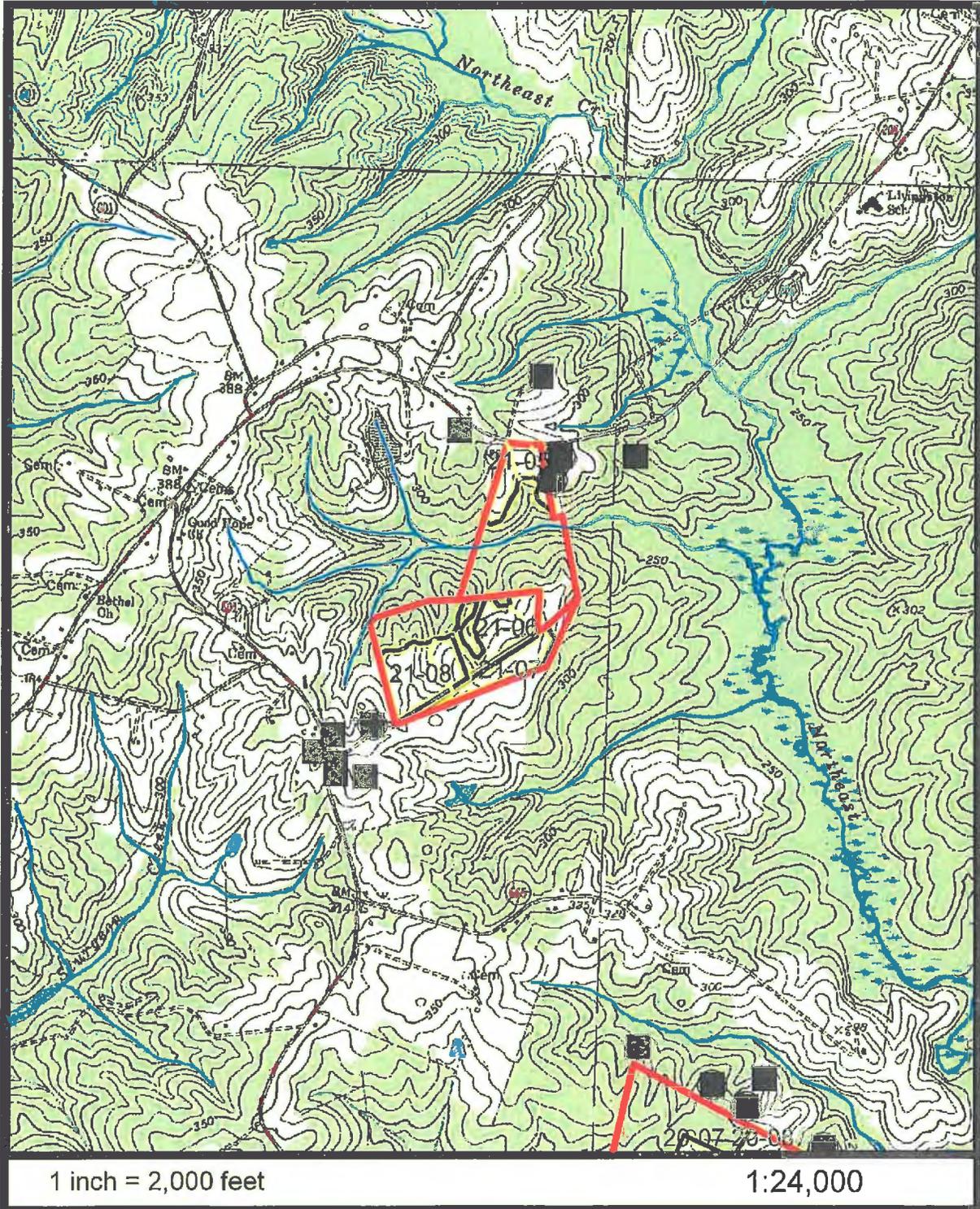


1 inch = 2,000 feet

1:24,000

TOPO MAP

REVISED 8-11-16



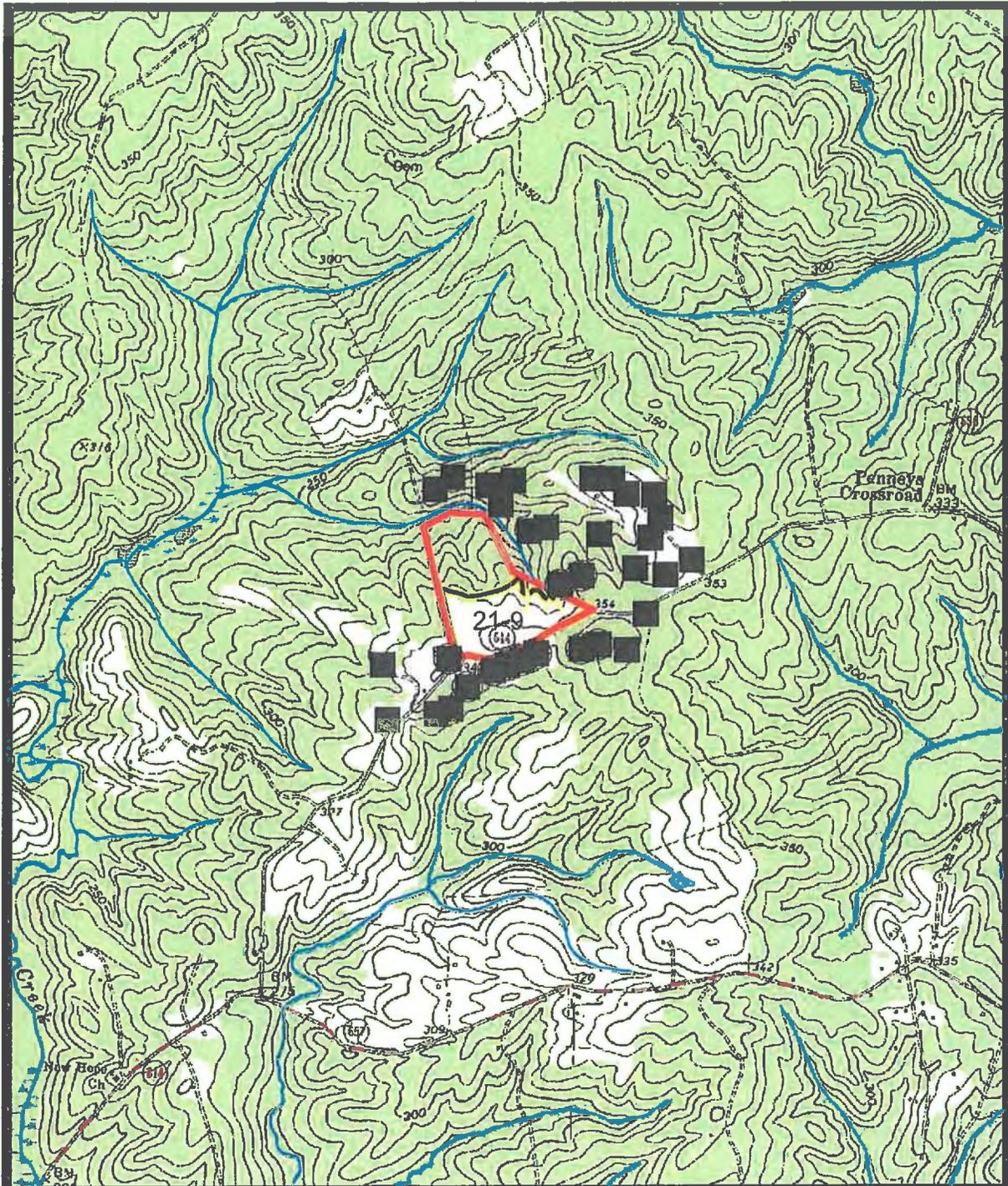
TOPO MAP

CREATED 12-4-2015



SYNAGRO

Waler Gentry
SP 21
Field 9



1 inch = 2,000 feet

1:24,000

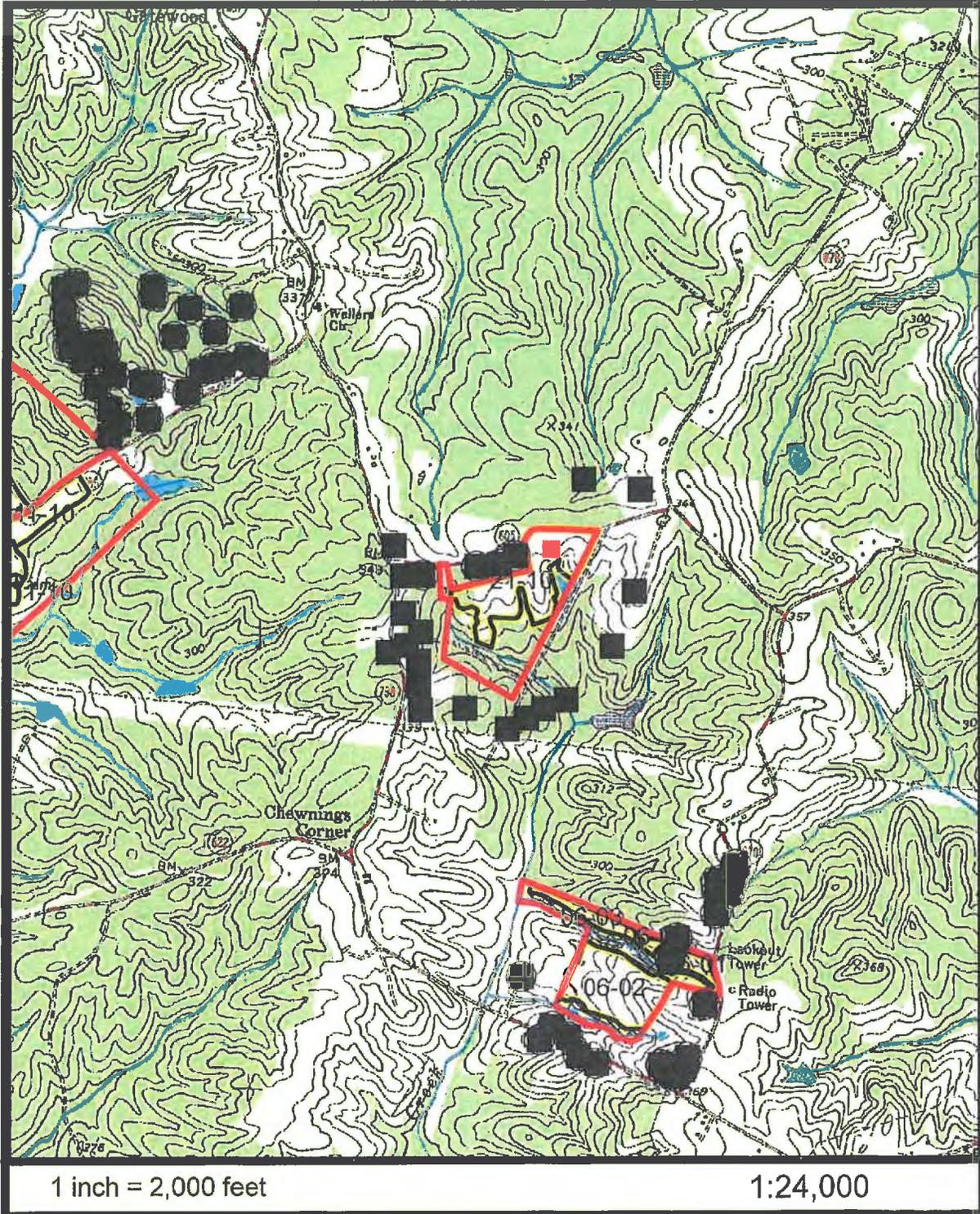
TOPO MAP

CREATED 12-4-2015



SYNAGRO

Walter Gentry
SP 21
Field 10



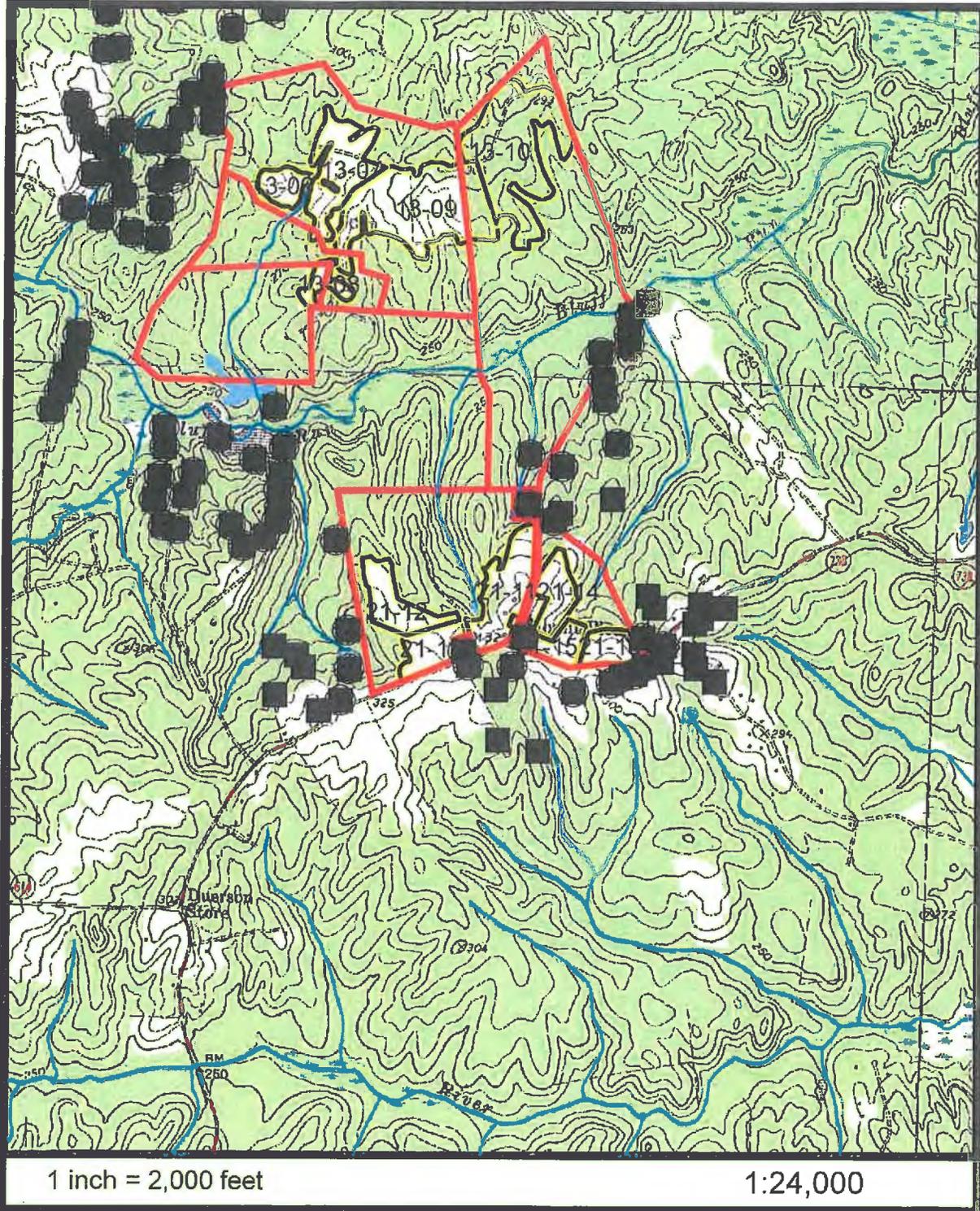
TOPO MAP

CREATED 11-20-2015



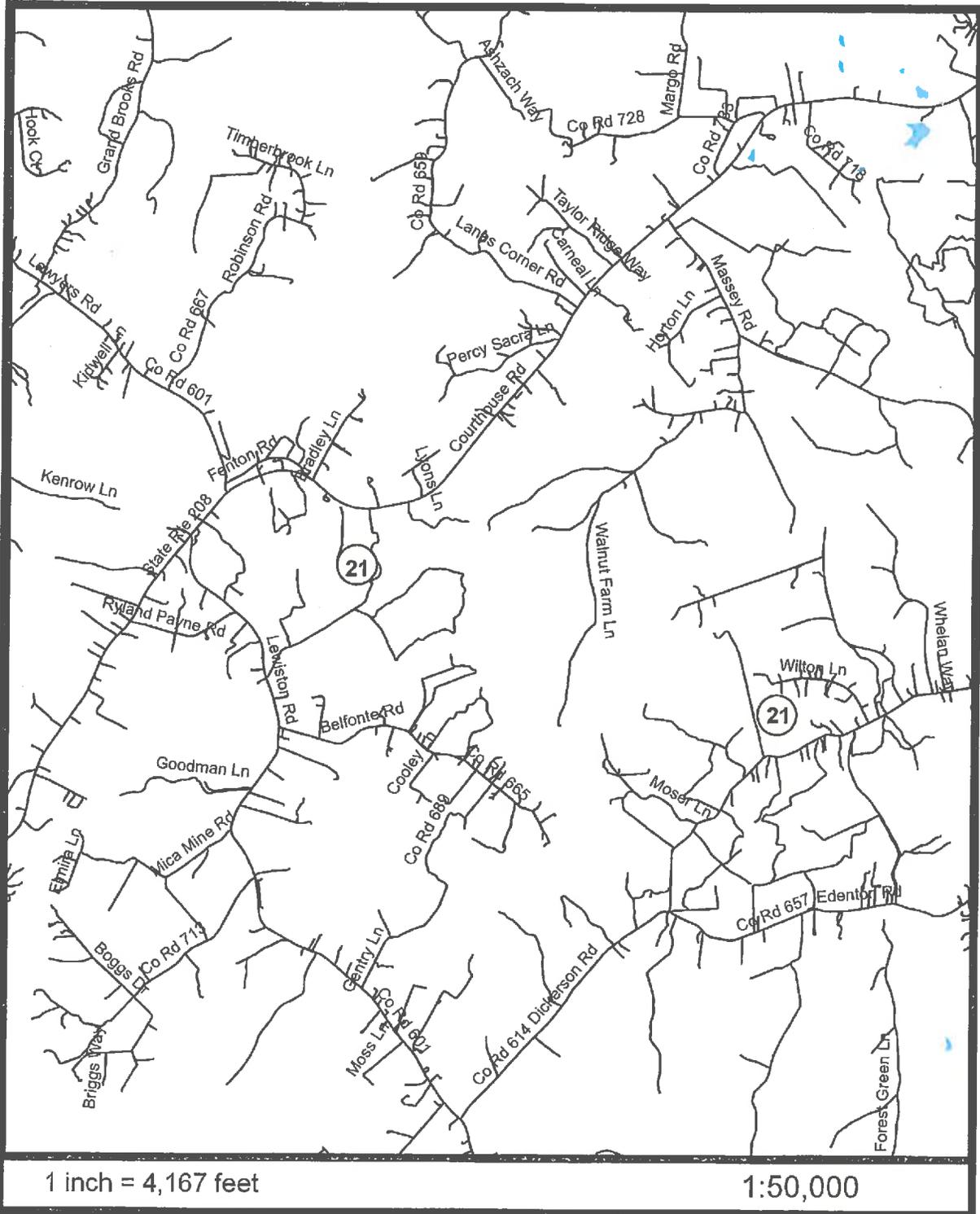
SYNAGRO

Water Gentry
SP 21
Fields 11-16



TOPO MAP

CREATED 12-4-2015

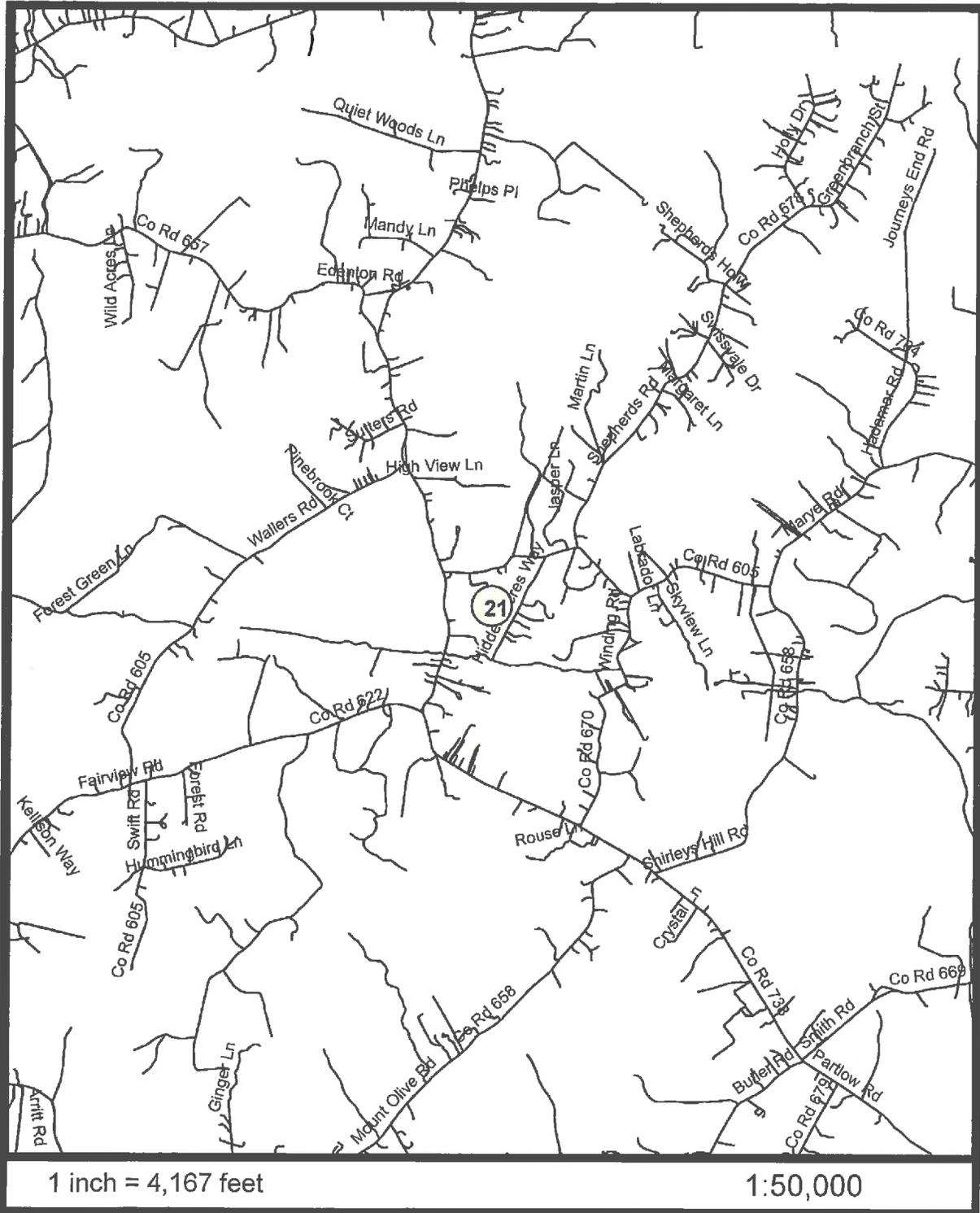


LOCATION MAP

CREATED 12-4-2015

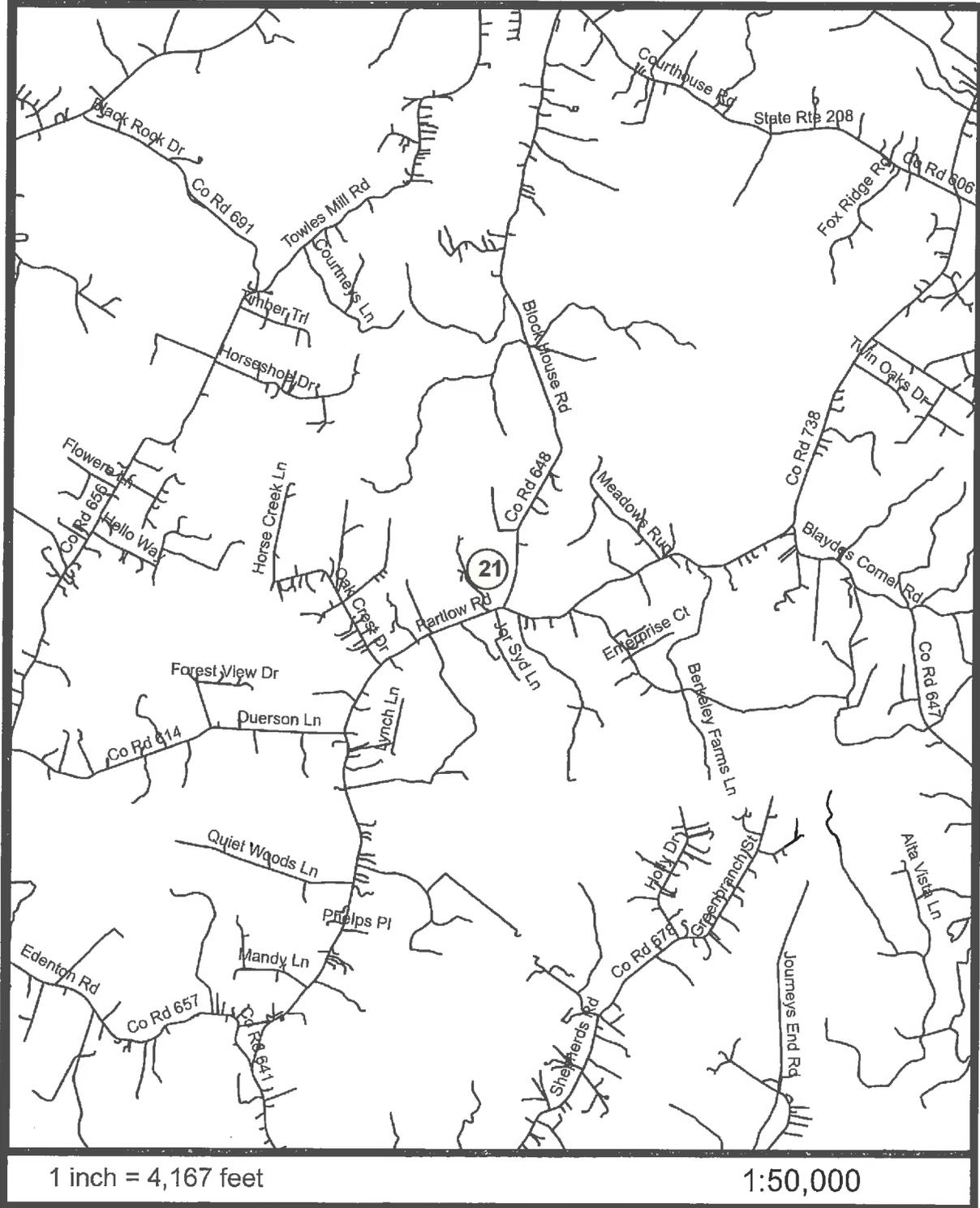
SYNAGRO

Walter Gentry
SP 21
Field 10



SOIL MAP

CREATED 11-20-2015



LOCATION MAP

CREATED 12-4-2015