

LAND APPLICATION OF BIOSOLIDS
SHANNON TILLMAN

NE13 (FIELDS 1 – 5)
NELSON COUNTY, VIRGINIA
MAY 2014

MAPPED

OCT 05 2015

By: _____

DEQ Valley

MAR 31 2015

To: _____
File: _____



May 8, 2014

Mr. Keith Showman
Department of Environmental Quality
Valley Regional Office
P O Box 3000
Harrisonburg, VA 22801

Dear Mr. Showman:

Transmitted herein for your consideration is land application site for Shannon Tillman (designated as NE 13, fields 1-5), located in Nelson 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 blue ink that reads "C. Whiteside".

Carolanne M. Whiteside
Technical Services Coordinator

Permittee: Synagro

County or City: Nelson County

Landowner: SHANNON TILLMAN / KATHERINE TILLMAN

Landowner Site Management Requirements:

As 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.

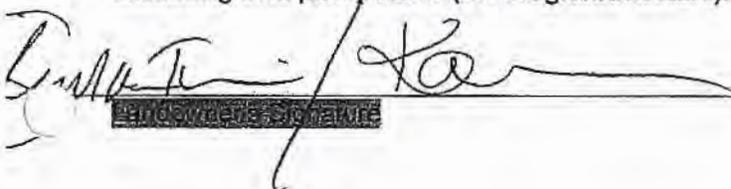
I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

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

10/15/2013

Date

TAX ID LANDOWNER IDENTIFICATION SHEET

| Landowner | Field Number | Tax ID |
|-----------------------------|--------------|--------|
| Shannon & Katherine Tillman | 13-01 | 87-A-2 |
| Shannon & Katherine Tillman | 13-02 | 87-A-2 |
| Shannon & Katherine Tillman | 13-03 | 87-A-2 |
| Shannon & Katherine Tillman | 13-04 | 87-A-2 |
| Shannon & Katherine Tillman | 13-05 | 87-A-2 |

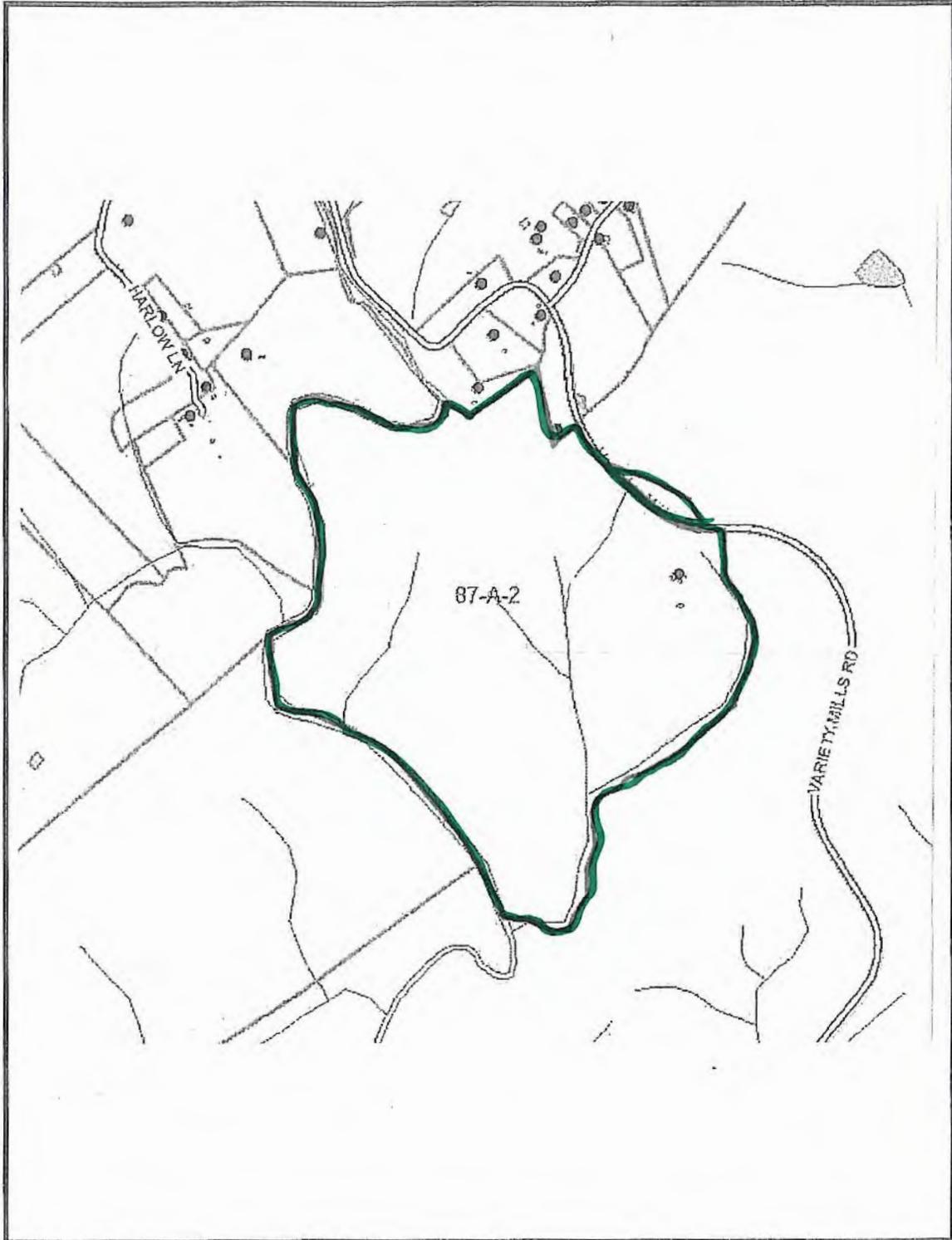
| Field Number | Latitude (North) | Longitude (West) |
|--------------|------------------|------------------|
| 13-01 | 37.661° | -78.834° |
| 13-02 | 37.664° | -78.835° |
| 13-03 | 37.664° | -78.841° |
| 13-04 | 37.660° | -78.839° |
| 13-05 | 37.659° | -78.835° |

Haul Route:

The Location maps in conjunction with the above latitude and longitude coordinates are a route planning tool meant to be a guide to indicate suggested haul routes for various preferences: to include but not limited to all federal, state, and local granted STAA access routes.

SYNAGRO

Shannon Tillman
NE 13
Fields 1-5



TAX MAP

MAP LEGEND



House/Dwelling with a well -200' buffer-dwelling (with conditions for reduction); 100' buffer-well



Rock Outcrop – 25' limestone 50'



Well – 100'



Lake/Pond – 35' w/vegetative buffer; 100' without vegetative buffer.



Slope which exceeds 15%



Non-application area – buffers such as streams, house, wells, etc.



Intermittent Stream - 35' w/vegetative buffer; 100' without vegetative buffer.



Stream/River - 35' w/vegetative buffer; 100' without vegetative buffer.



Agricultural/Drainage Ditch – 10'



Field boundary

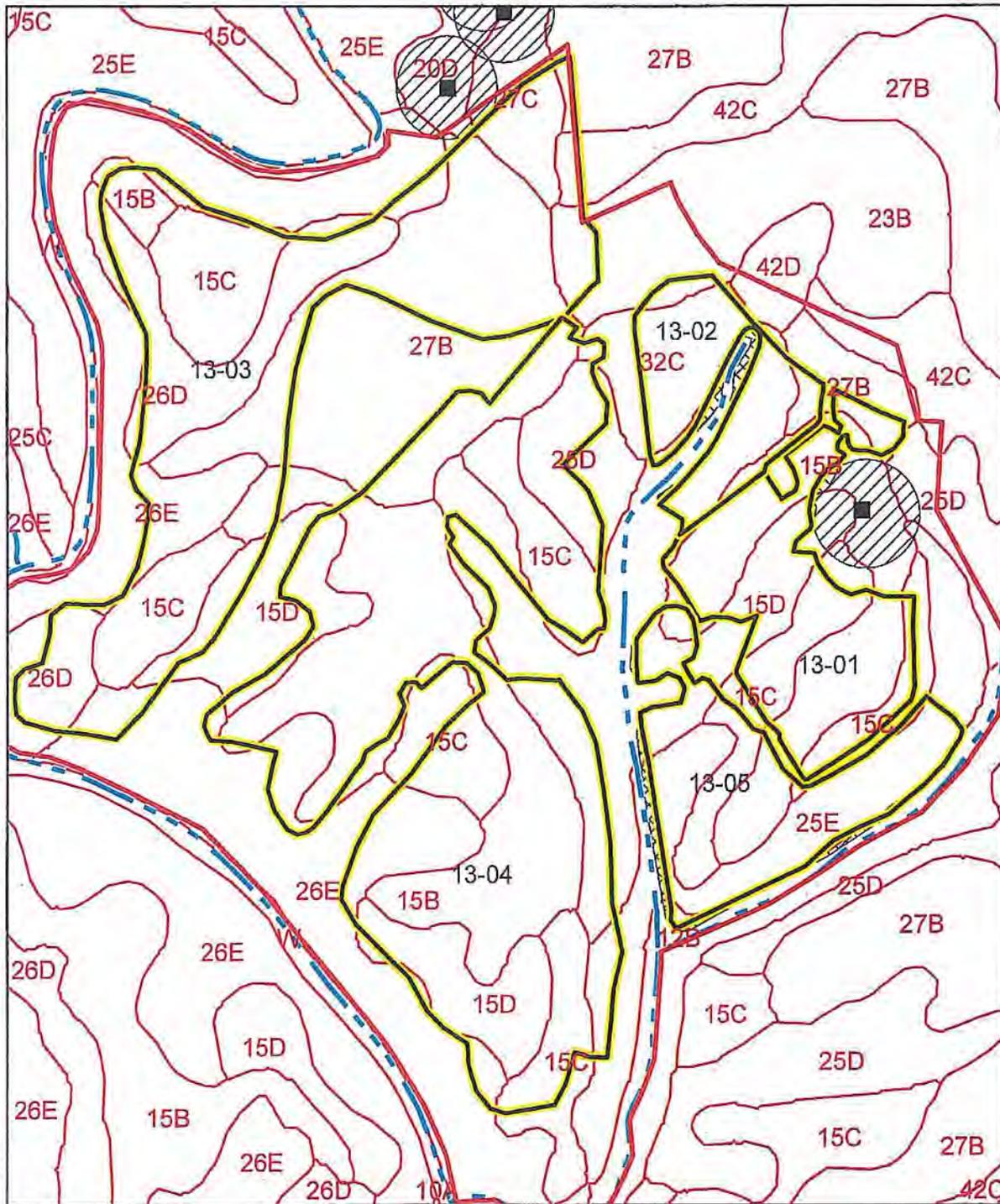


Property Line – (Standard 100' Buffer, unless waiver issued)



“PAS” – Publicly Accessible Site – Standard 200' buffer & possible 400' for odor sensitive receptors

Revised: March 2016



1 inch = 583.333333 feet

SOIL MAP

1:7,000

REVISED 2/24/16



1 inch = 583.333333 feet

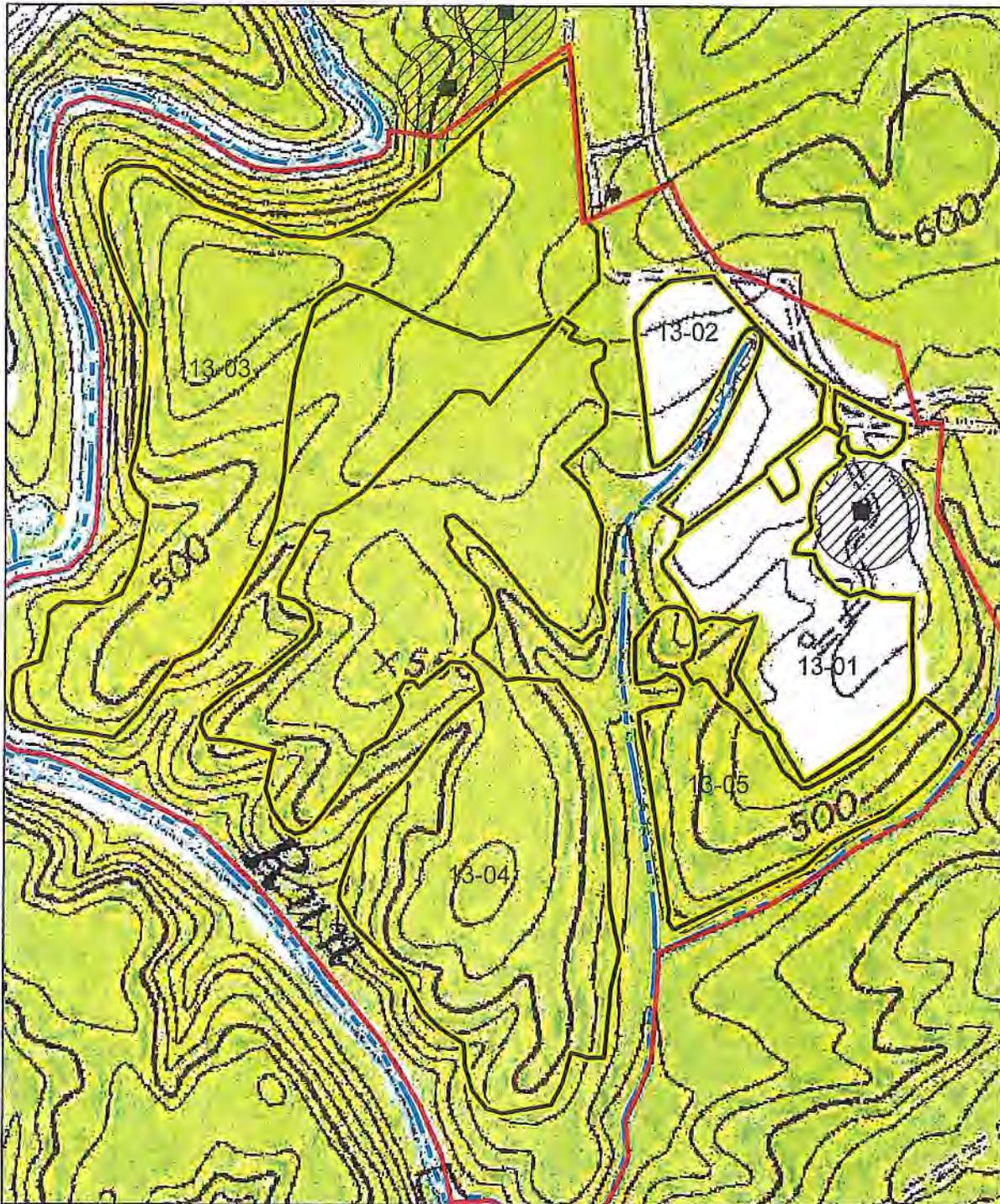
AERIAL MAP

1:7,000

REVISED 2/24/16

SYNAGRO

SHANNON TILLMAN
NE 13
Fields 1-5



1 inch = 583.333333 feet

TOPO MAP

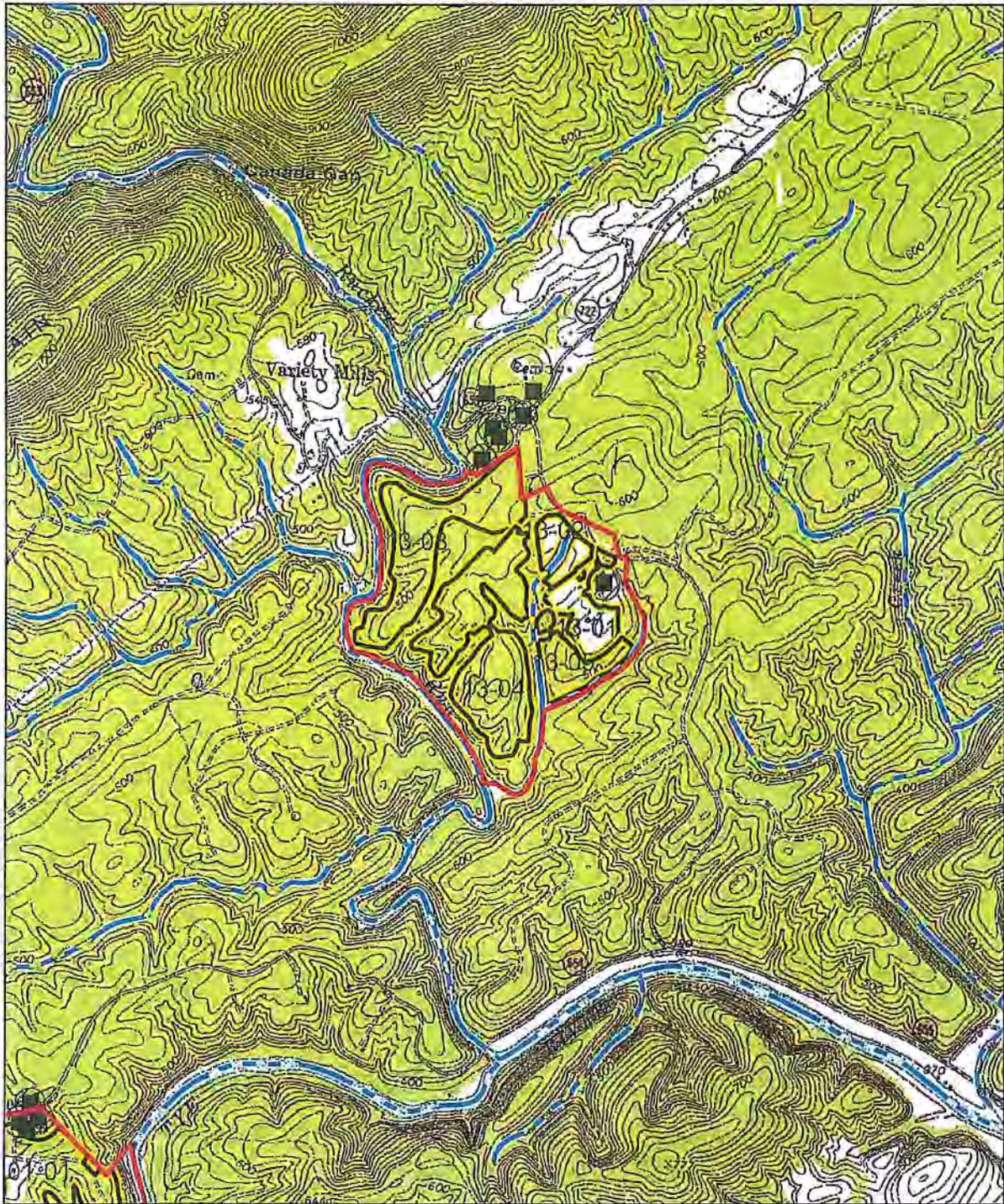
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REVISED 2/24/16

| Field # | Gross Acres | Field # | Gross Acres |
|---------|-------------|---------|-------------|
| 13-01 | 15.5 | 13-04 | 57.6 |
| 13-02 | 9.5 | 13-05 | 15.4 |
| 13-03 | 43.6 | | |

SYNAGRO

SHANNON TILLMAN
NE 13
Fields 1-5

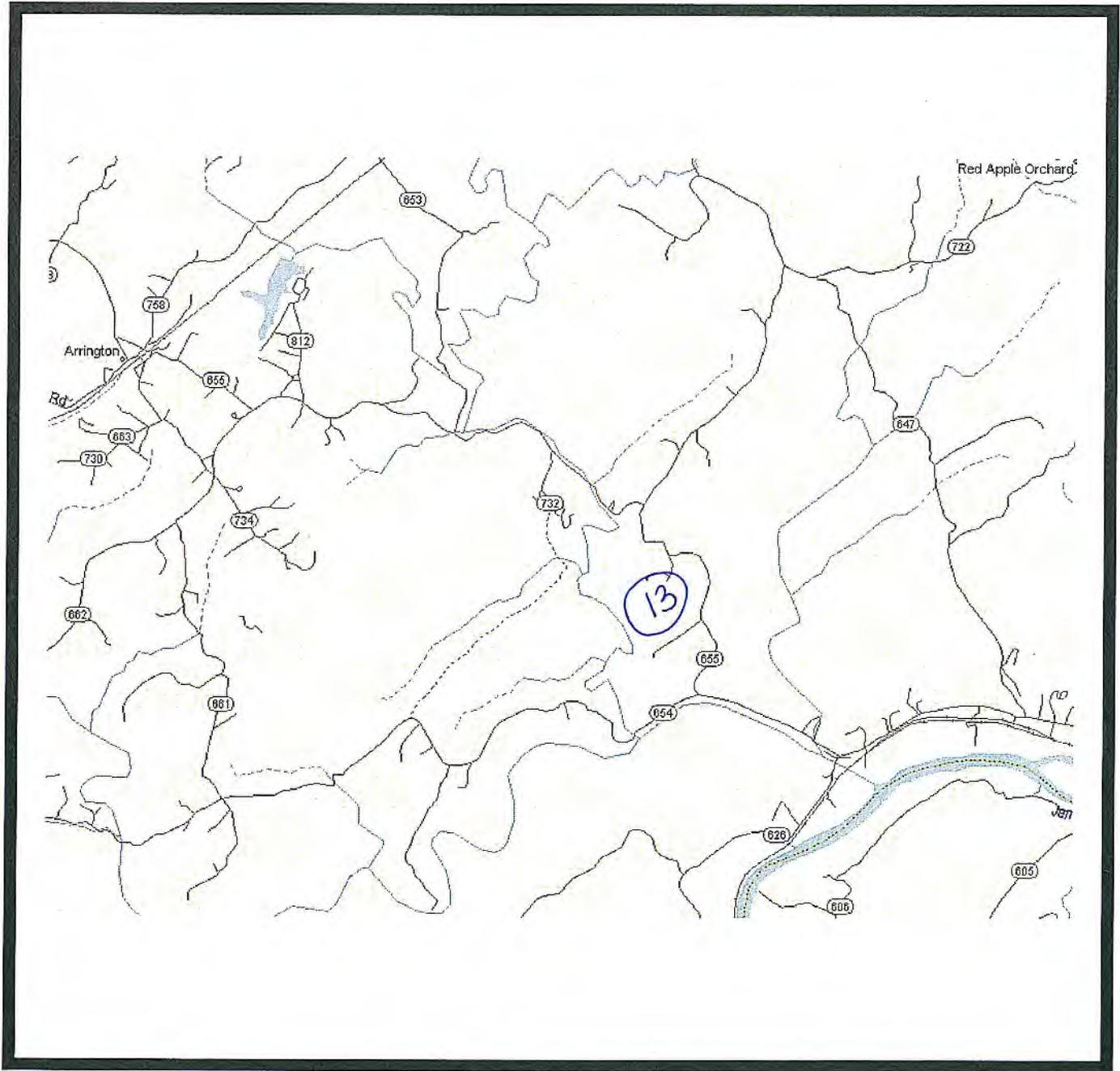


1 inch = 2,000 feet

TOPO MAP

1:24,000

REVISED 2/24/16



LOCATION MAP

