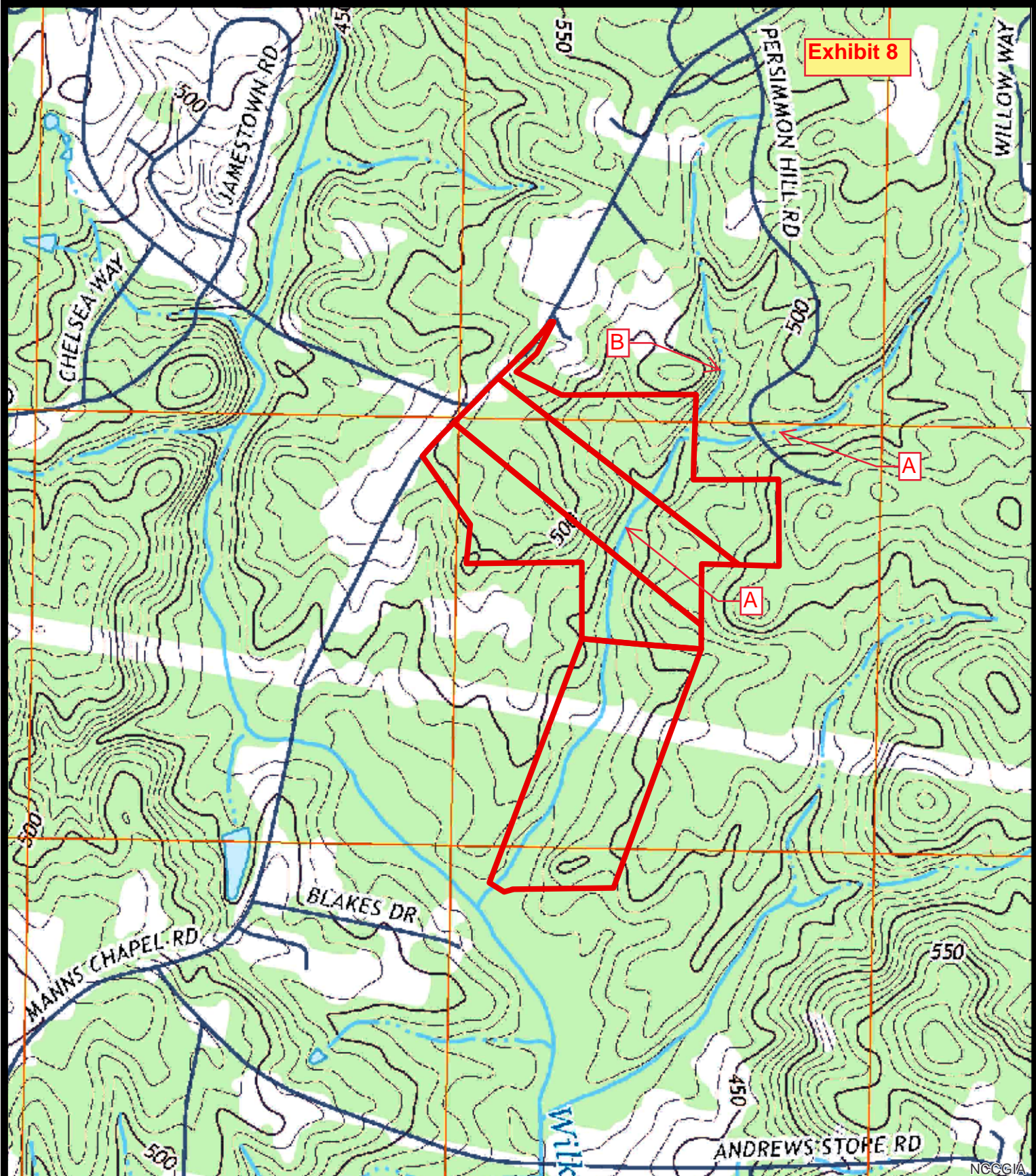


Exhibit 8



Project Number: **13203.W1**

Project Manager: **SB**

Scale: **1" = 1000'**

Date: **8/15/17**

Map Title: **Figure 1 - USGS Map**  
 Ryan's Crossing  
 Chatham County, NC

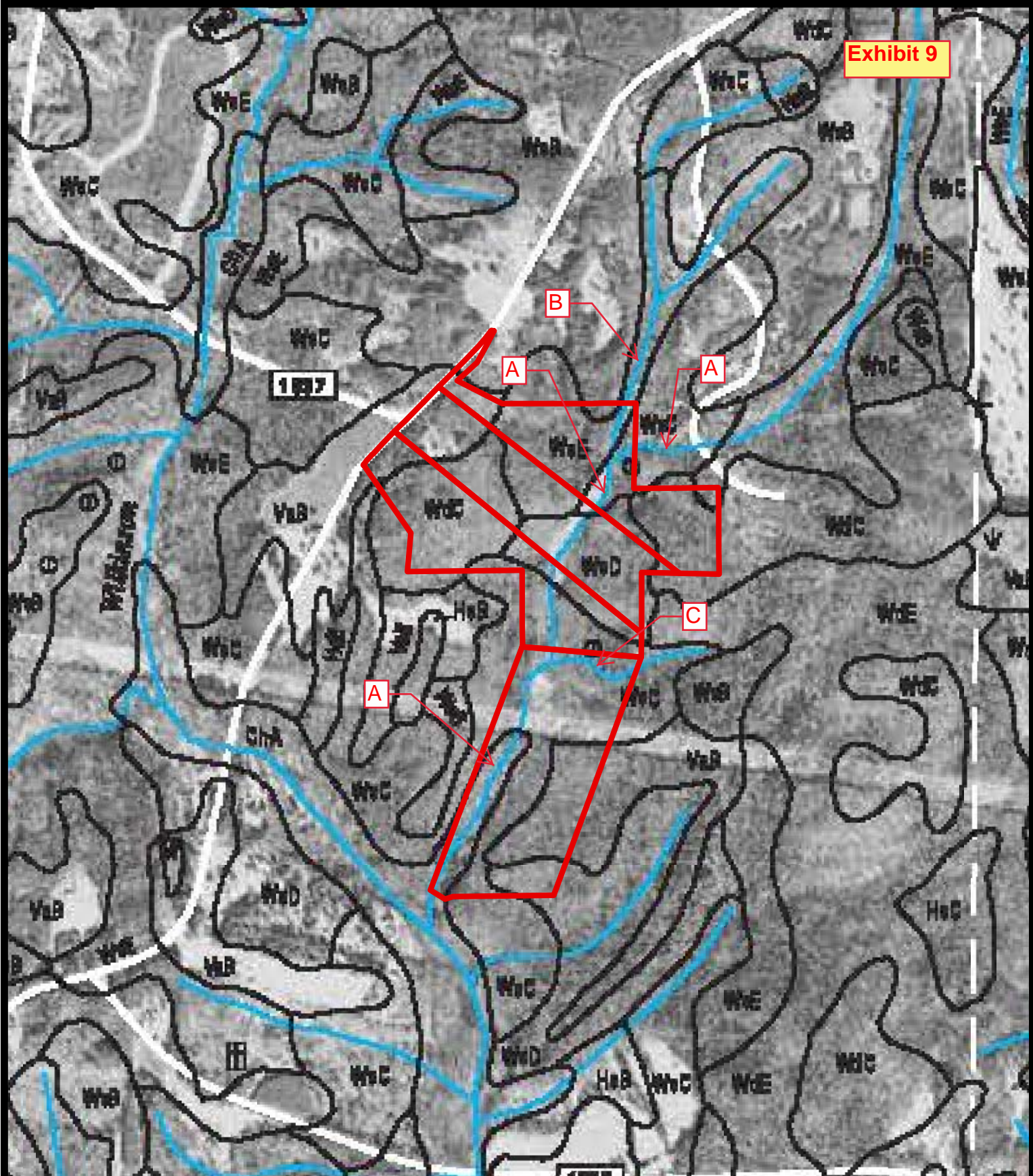
Source: **NC USGS**  
 Bynum Quadrangle

0 1,000 2,000  
 Feet

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N

NCCGIA



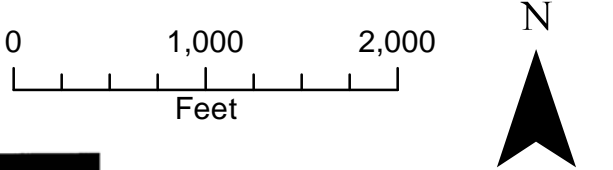
Project Number: 13203.W1

Project Manager: SB

Scale: 1" = 1000'

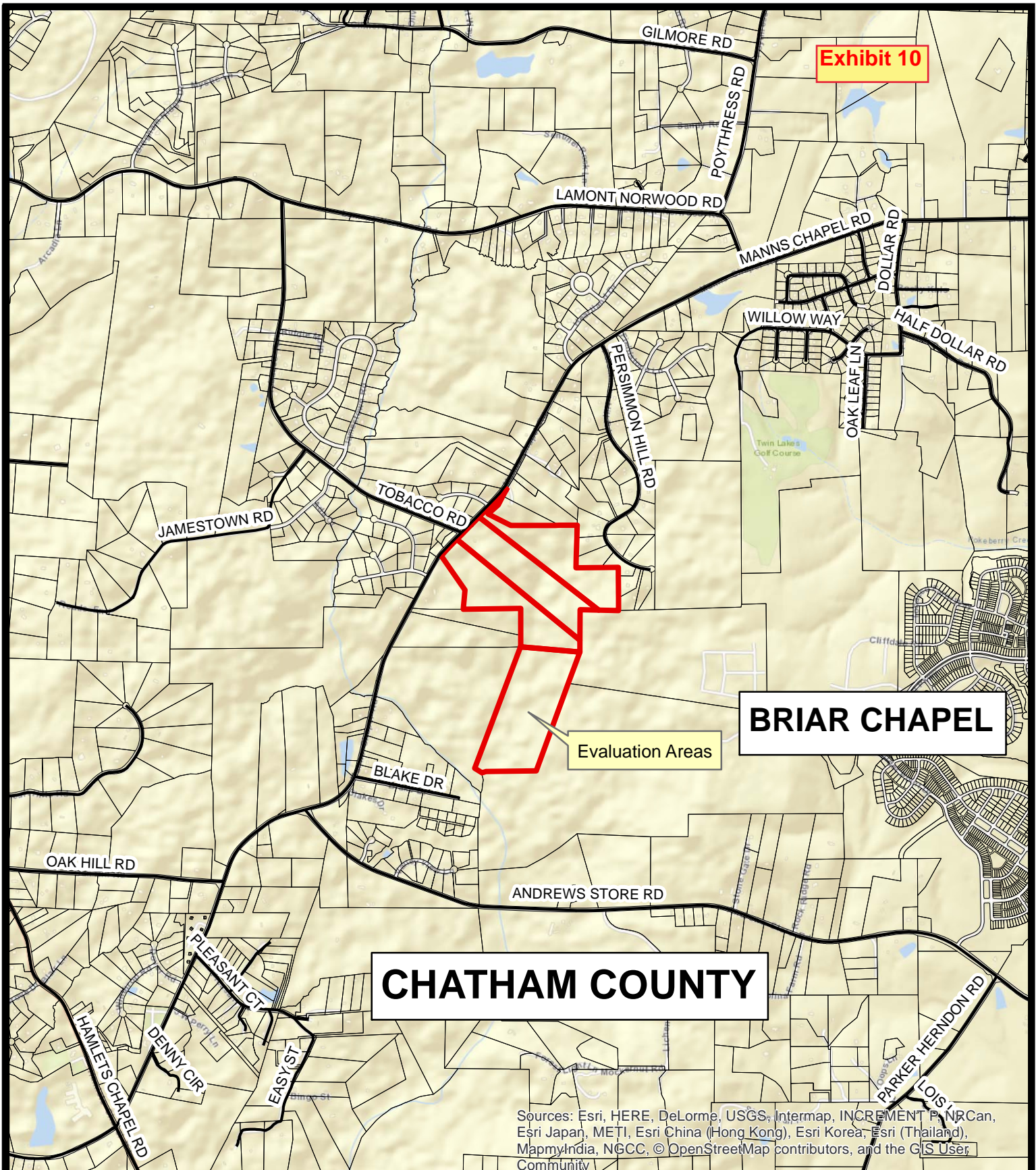
Date: 8/15/17

Map Title:  
**Figure - Soil Survey Map**  
Ryan's Crossing  
Chatham County, NC  
Source: Chatham County  
Soil Sheet 4



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Exhibit 10



**BRIAR CHAPEL**

Evaluation Areas

**CHATHAM COUNTY**

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

Project Number:  
**13203.W8**

Project Manager:  
**BZ**

Scale:  
**1" = 2,000'**

Date:  
**01/03/17**


Map Title: **Figure 1**

**Vicinity Map**

Ryan's Crossing Subdivision  
Chatham County, NC

Source:  
Chatham Co. GIS, bing.com

N

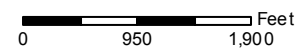
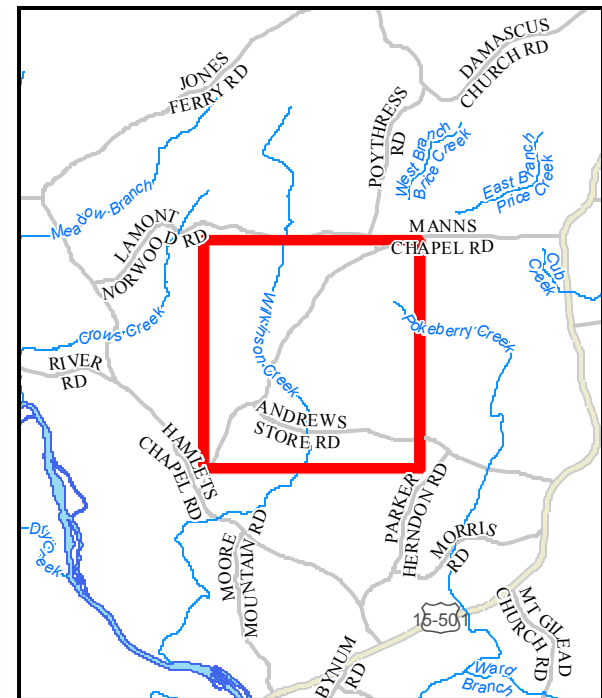
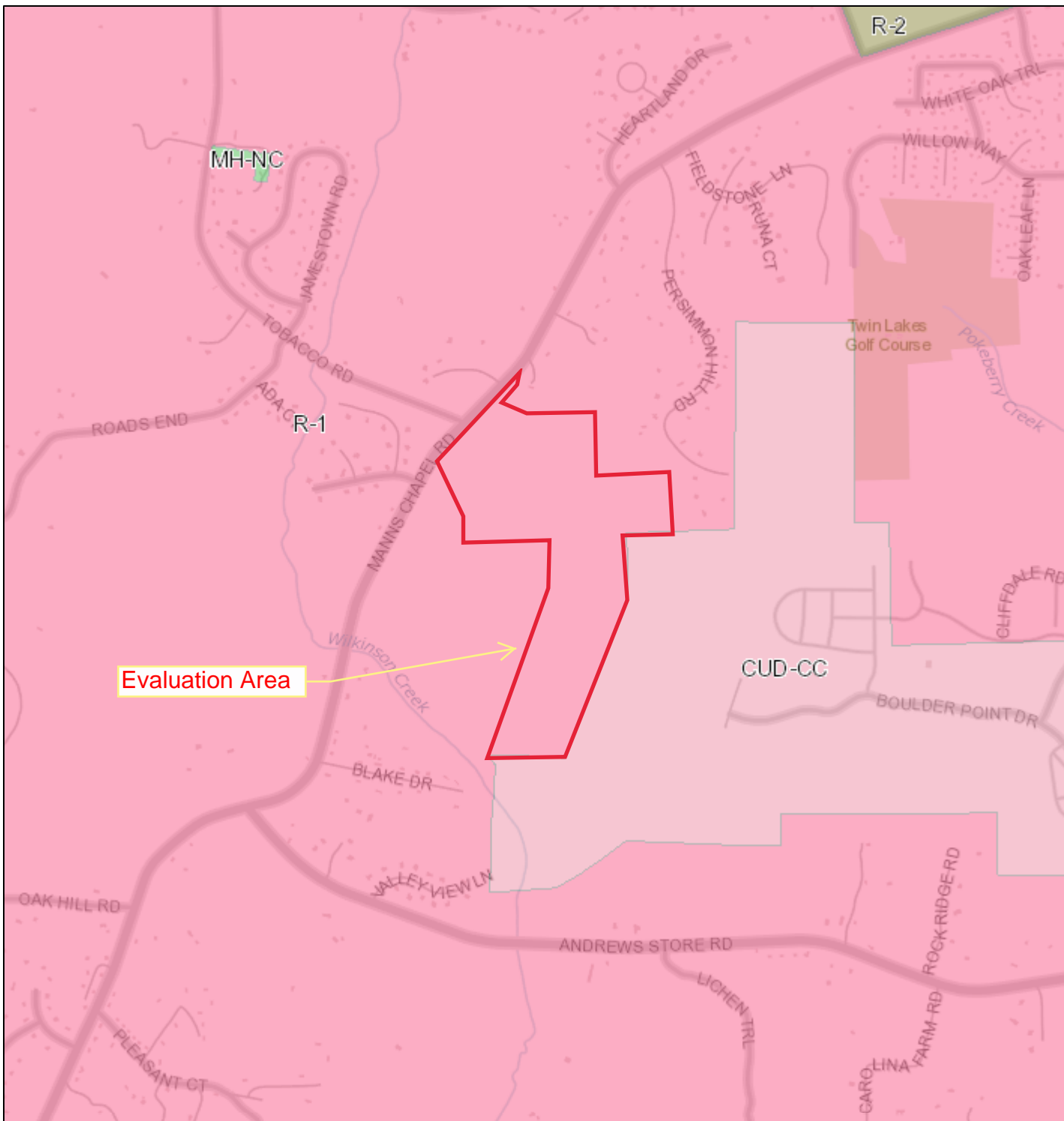


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# Chatham County Zoning Map

**Exhibit 11**



Service Layer Credits: Chatham County, Chatham County Planning, Chatham County GIS



Date: 1/30/2018  
Time: 1:06:47 PM

**Locate Park & Recreational Activities** Chatham County, NC

Enter park name

Locate Recreational Activities

Search an address or locate on map

Find address or place

Show results within 5 Miles

Basketball	(1)
Baseball	(2)
Soccer	(1)
Playgrounds	(1)
Boating	(1)
Picnicking	(1)
Fishing	(1)

**Legend**

**Recreational Bike Routes**

- Route A
- Route B
- Route C
- Route D
- Route E
- Route F
- Route G

**Greenways**

Ryan's Crossing Site

1,994,487.312 752,755.312 Feet

1mi



Evaluation Area

NC Center for Geographic Information & Analysis

Project Number:  
13203.W8

Project Manager:  
BZ

Scale:  
1" = 600'

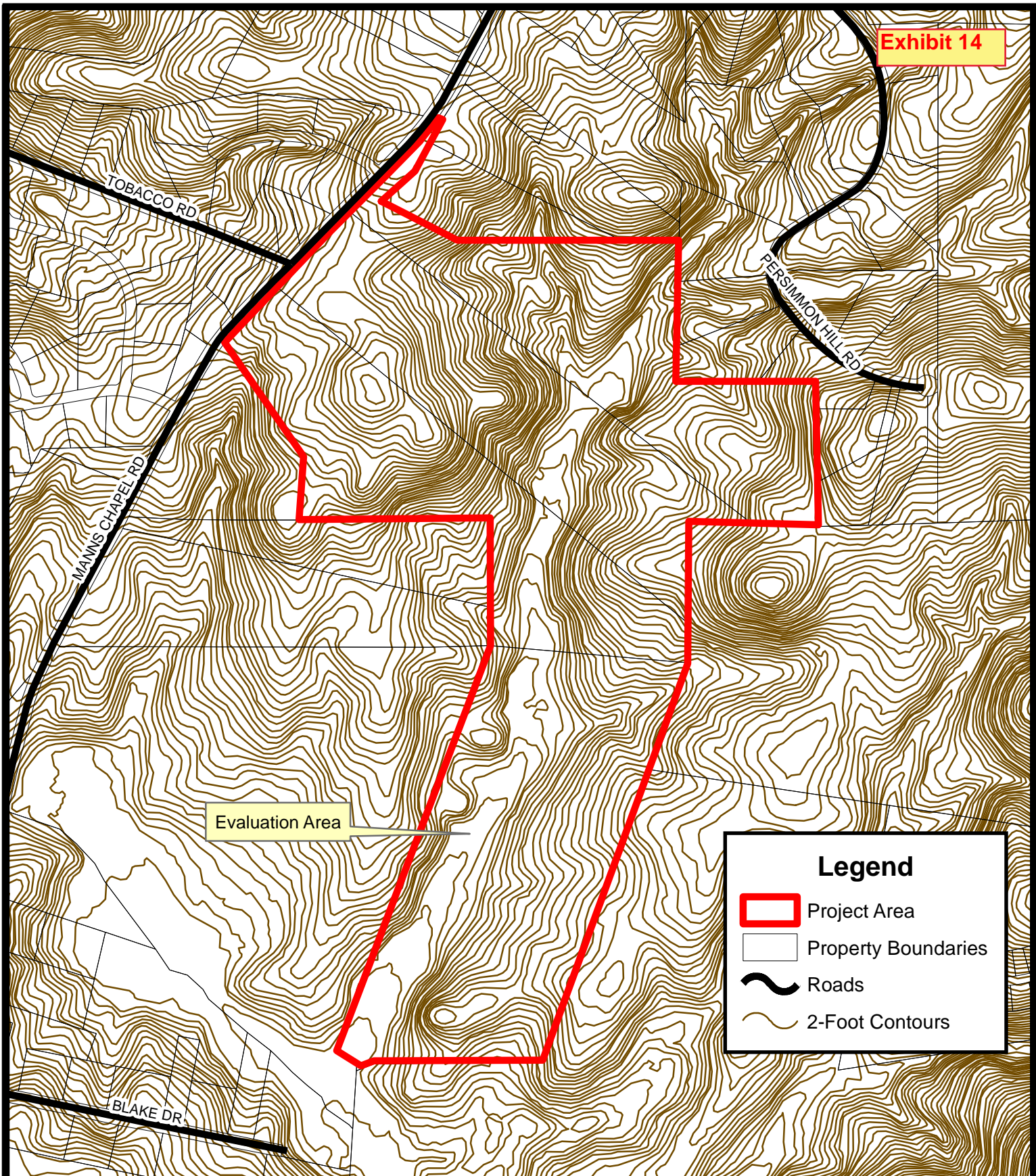
Date:  
01/03/18

Map Title: Figure  
2017 Aerial Map  
Ryan's Crossing Subdivision  
Chatham County, NC

Source:  
NCOneMap.com,  
Chatham County GIS





0 300 600 Feet

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sandec.com



Evaluation Area

**Legend**

-  Project Area
-  Property Boundaries
-  Roads
-  2-Foot Contours

Project Number:  
13203.W8

Project Manager:  
BZ

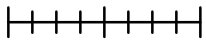

Scale:  
1" = 600'

Date:  
01/03/18

Map Title: Figure  
Topographic Map  
Ryan's Crossing Subdivision  
Chatham County, NC

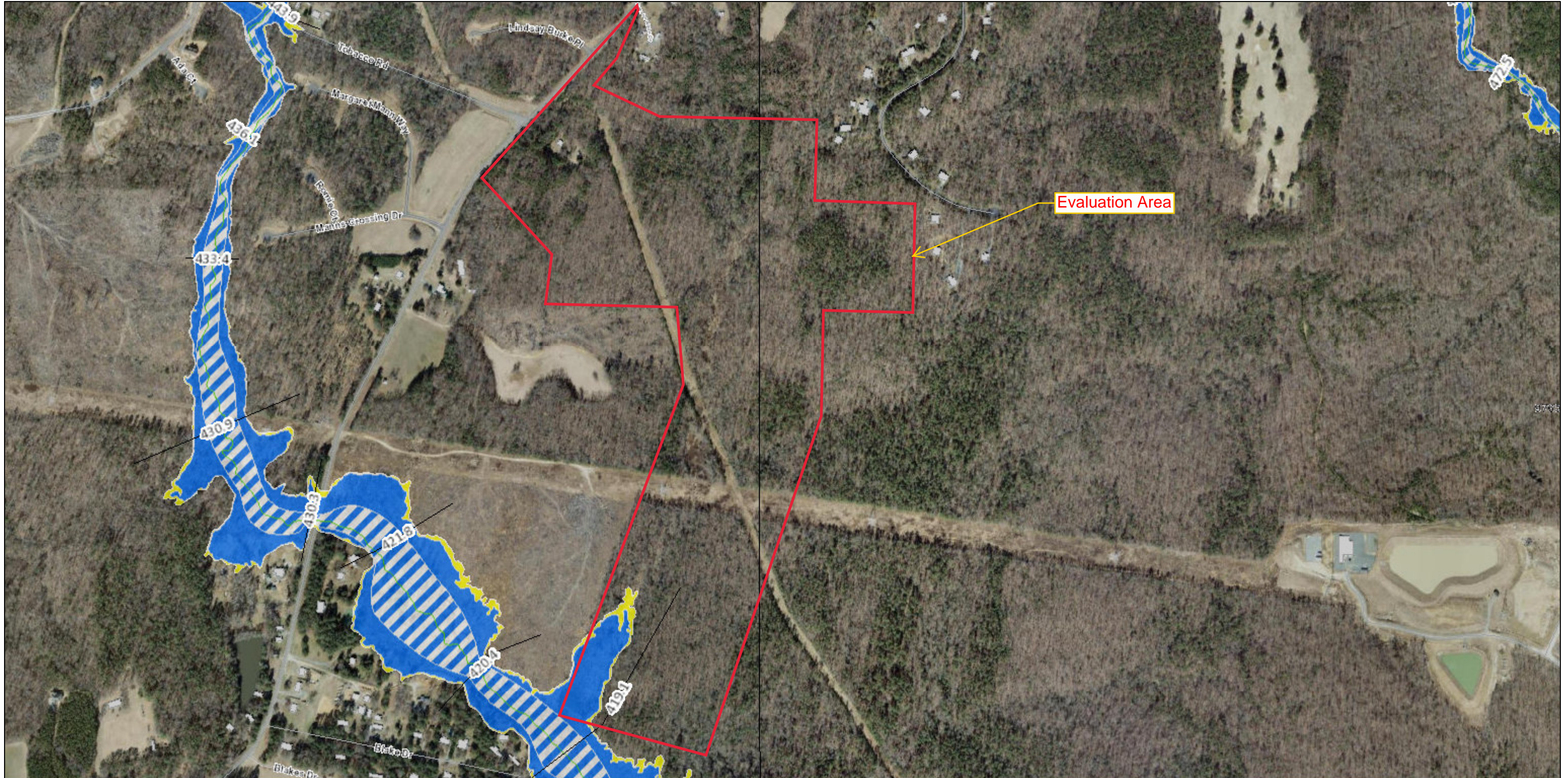
Source:  
NCOneMap.com/NCDOT,  
Chatham County GIS





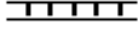




0 300 600 Feet

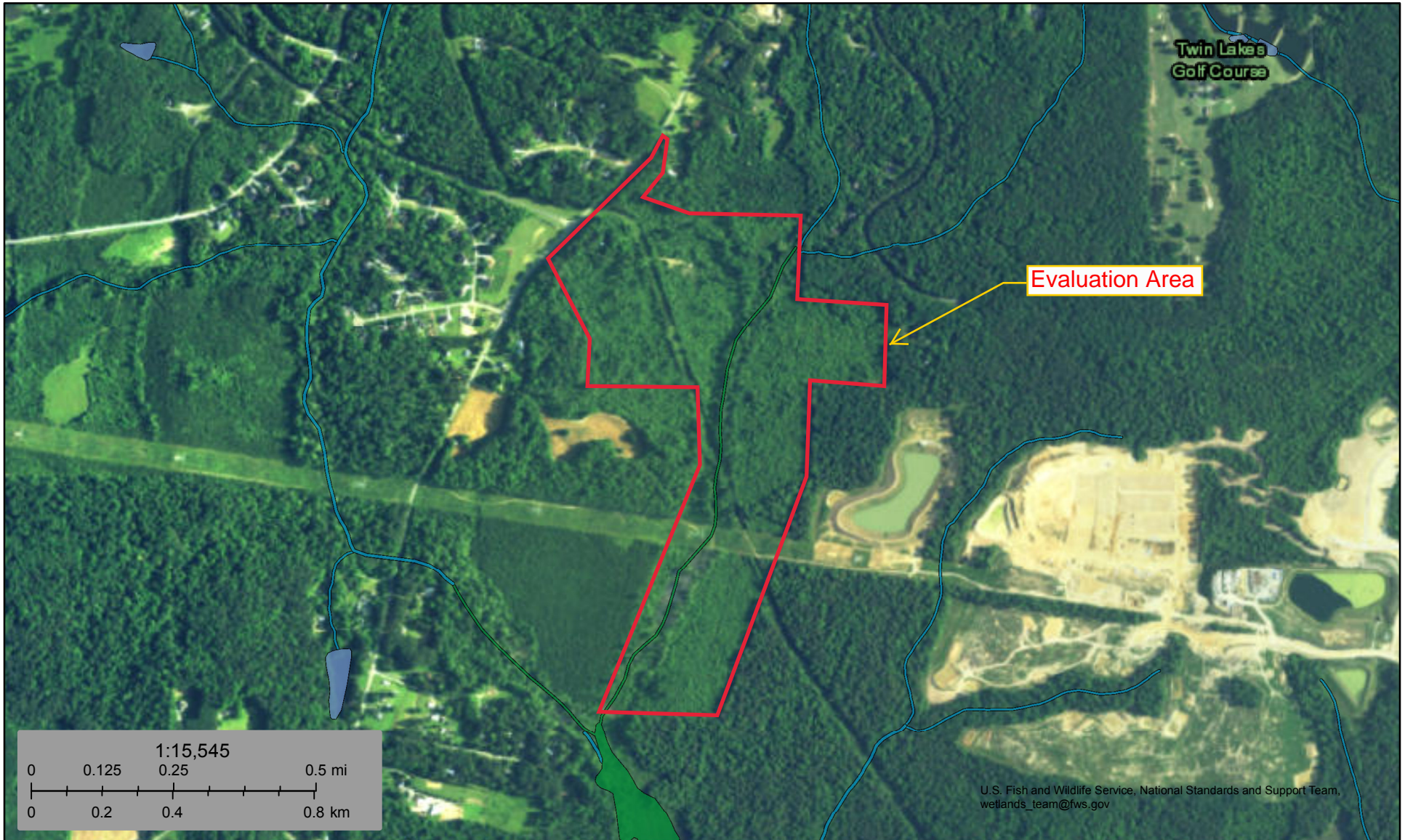
**S&EC** Soil & Environmental Consultants, PA  
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sandec.com

# Flood Map



Legend	
	Panels
	Political Areas
	Stream Centerline
	Cross Sections
	Levee
Flood Hazard Areas	
	AE
	Floodway (AE)
	0.2 % Chance Annual Flood Hazard
	Future Conditions 1% Annual Chance Flood Hazard













U.S. Fish and Wildlife Service, National Standards and Support Team,  
wetlands\_team@fws.gov

January 3, 2018

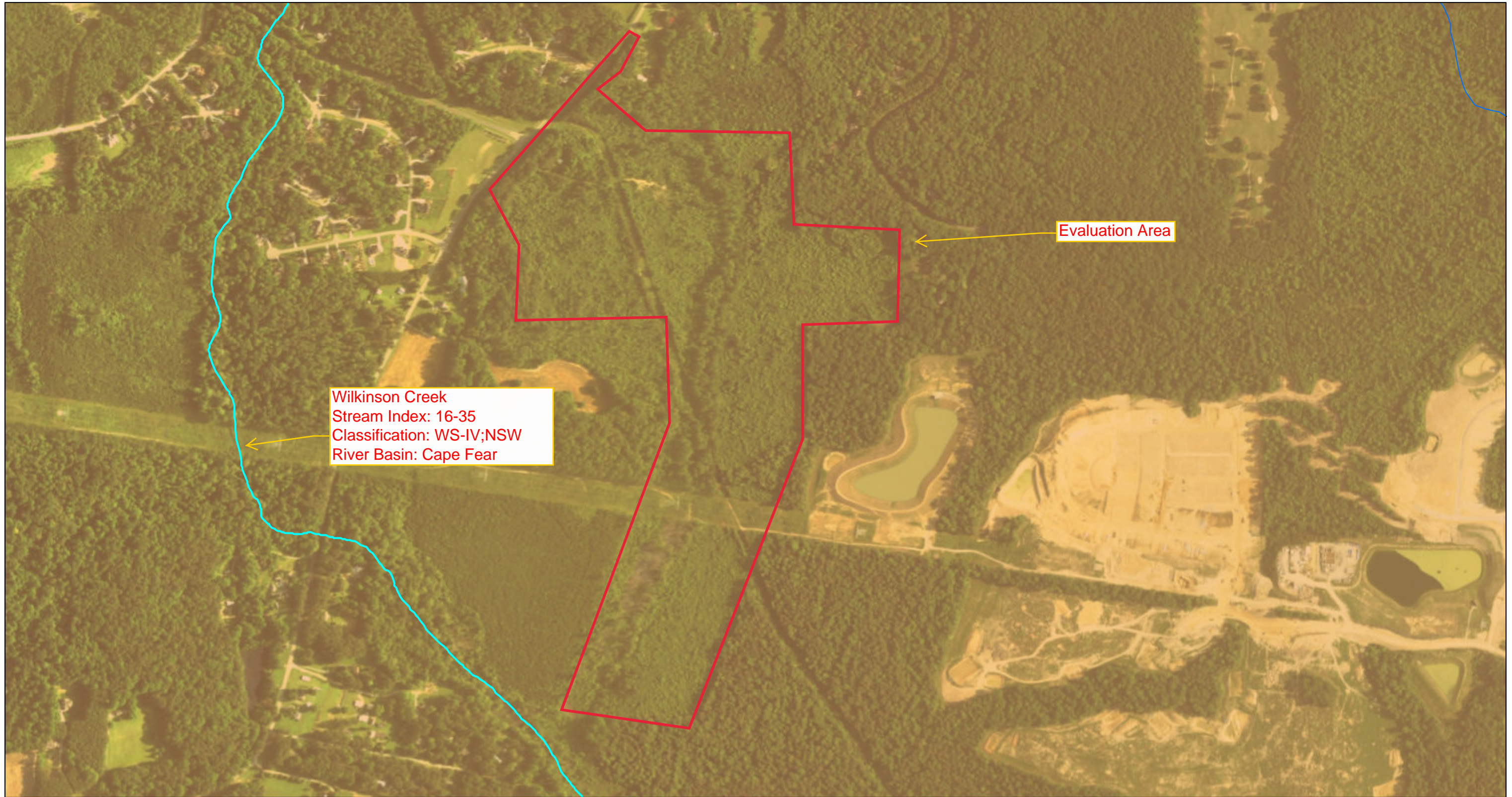
**Wetlands**

- |  |   |  |
|--|---|--|
|  Estuarine and Marine Deepwater |  Freshwater Emergent Wetland       |  Lake     |
|  Estuarine and Marine Wetland   |  Freshwater Forested/Shrub Wetland |  Other    |
|  |  Freshwater Pond                   |  Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# NC Surface Water Classification

Exhibit 17



Wilkinson Creek  
Stream Index: 16-35  
Classification: WS-IV;NSW  
River Basin: Cape Fear

Evaluation Area

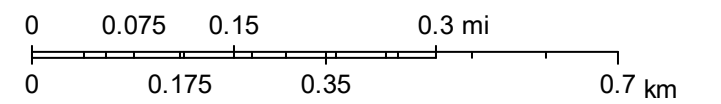
1 / 4 / 2018 1 : 43 : 09 PM

— Surface Water Classifications

**River Basins**

— CPF

1:9,028



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

03030002050060

03030002060070

03030002060080

CHATHAM

ORANGE

03030002050080

CAPE FEAR

Evaluation Area



03030002050100




03030002060090

03030002060010

03030002050090

03030002060020


**Legend**

-  Project Area
-  county pline
-  14-digit Hydrologic Units

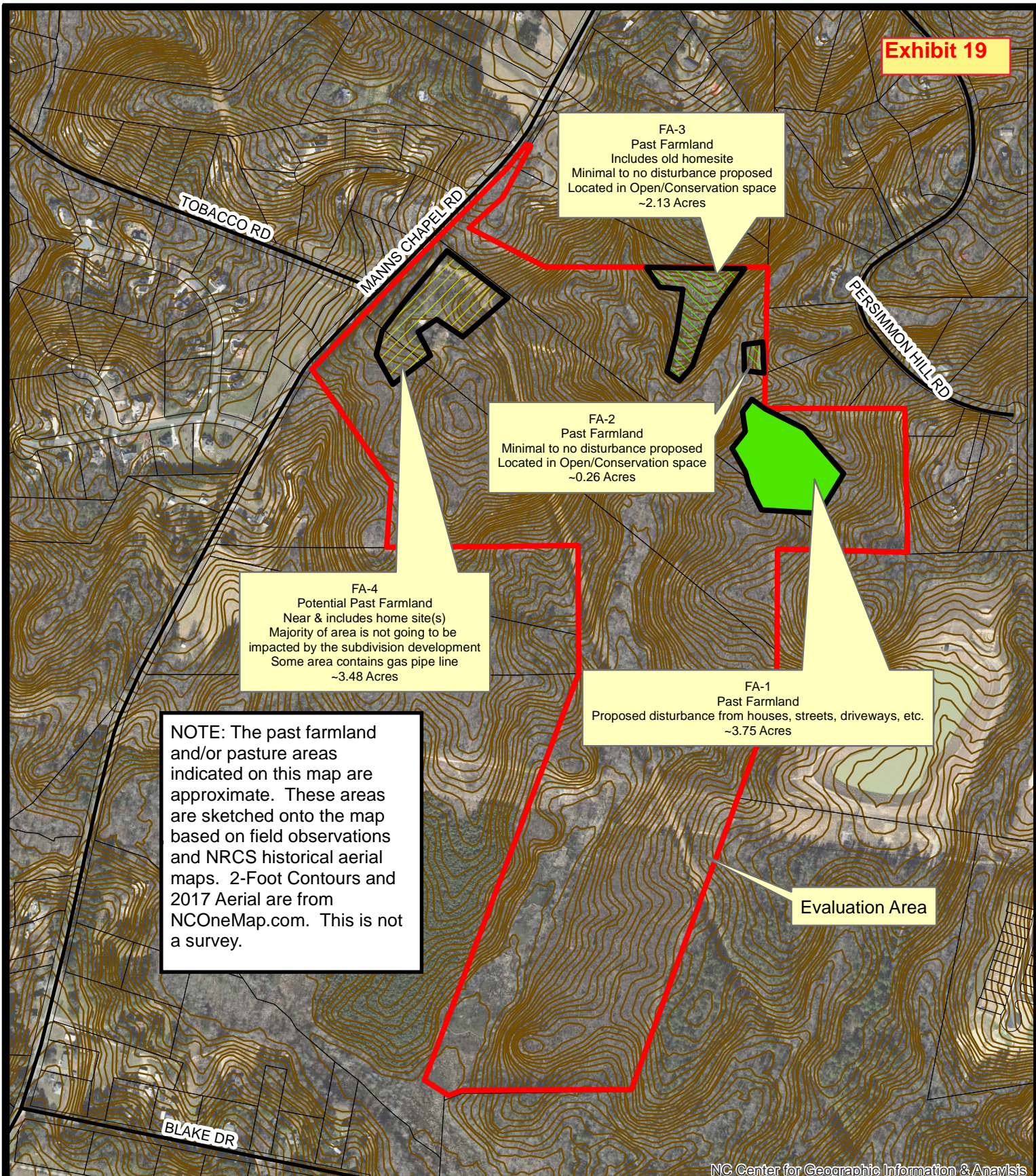
Project Number:	<b>13203.W8</b>
Project Manager:	<b>BZ</b>
Scale:	<b>1" = 5000'</b>
Date:	<b>01/03/18</b>

Map Title:	<b>Figure</b>
	<b>Watershed Map</b>
	<b>Ryan's Crossing Subdivision</b>
	<b>Chatham County, NC</b>
Source:	<b>EEP Basin Data</b>

0 4,500 9,000 Feet



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NC Center for Geographic Information & Analysis

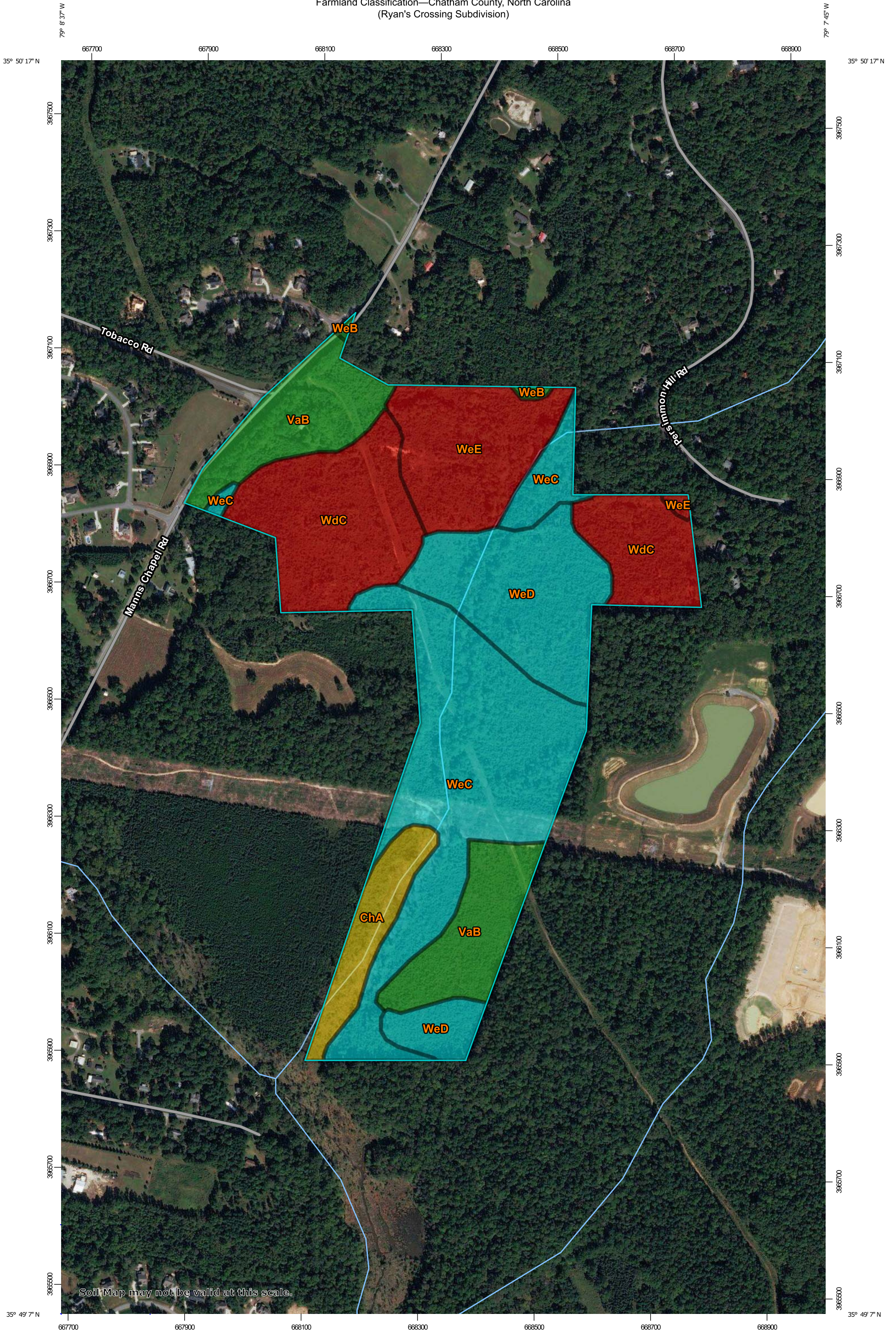
Project Number:	13203.W8
Project Manager:	BZ
Scale:	1" = 600'
Date:	01/03/18

Map Title:	Figure
	Past Farmland Map
	Ryan's Crossing Subdivision
	Chatham County, NC
Source:	NCOneMap.com, Chatham County GIS

0 300 600 Feet

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Farmland Classification—Chatham County, North Carolina  
(Ryan's Crossing Subdivision)



Map Scale: 1:6,000 if printed on B portrait (11" x 17") sheet.

0 50 100 200 300 Meters

0 250 500 1000 1500 Feet


Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84



Farmland Classification—Chatham County, North Carolina  
(Ryan's Crossing Subdivision)









MAP LEGEND








Area of Interest (AOI)

 Area of Interest (AOI)




Soils








Soil Rating Polygons






-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained
-  Prime farmland if protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated and drained
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season

-  Prime farmland if subsoiled, completely removing the root inhibiting soil layer
-  Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
-  Prime farmland if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance
-  Farmland of local importance
-  Farmland of unique importance
-  Not rated or not available







Soil Rating Lines










-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained

-  Prime farmland if protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated and drained
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if subsoiled, completely removing the root inhibiting soil layer
-  Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60

-  Prime farmland if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance
-  Farmland of local importance
-  Farmland of unique importance
-  Not rated or not available

Soil Rating Points

-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained
-  Prime farmland if protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

-  Prime farmland if irrigated and drained
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if subsoiled, completely removing the root inhibiting soil layer
-  Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
-  Prime farmland if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance
-  Farmland of local importance
-  Farmland of unique importance
-  Not rated or not available

Water Features


Farmland Classification—Chatham County, North Carolina  
(Ryan's Crossing Subdivision)

## MAP INFORMATION


 Streams and Canals

### Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

### Background

 Aerial Photography

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Chatham County, North Carolina

Survey Area Data: Version 20, Sep 26, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 4, 2014—Feb 4, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.