

LAND APPLICATION OF BIOSOLIDS  
HENRY TAYLOR

LO46 (FIELDS 01 - 10)  
LOUISA COUNTY, VIRGINIA  
JULY 2011





June 5, 2012

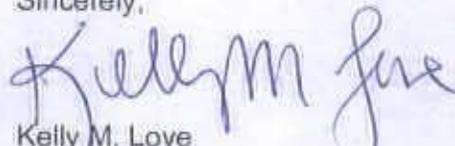
Mr. Ed Stuart  
Dept of Environmental Quality  
Northern Virginia Regional Office  
13901 Crown Court  
Woodbridge, VA 22193

Dear Mr. Stuart:

Transmitted herein for your consideration is land application site for Henry Taylor (designated as LO 46, fields 1-10), located in Louisa 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,

  
Kelly M. Love  
Technical Services Director

KML/cmw



## FIELD SUMMARY SHEET

Henry Taylor

LO46

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FSA FIELD #	TOPO QUAD	OWNER
46-01	35.2	34.3			Boswells Tavern	Taylor, Henry Jr. Trustee
46-02	24.6	23.9			Boswells Tavern	Taylor, Henry Jr. Trustee
46-03	20.6	20.6			Boswells Tavern	Taylor, Henry Jr. Trustee
46-04	12.0	12.0			Boswells Tavern	Taylor, Henry Jr. Trustee
46-05	50.3	48.3			Boswells Tavern	Taylor, Henry Jr. Trustee
46-06	7.3	7.1			Boswells Tavern	Taylor, Henry Jr. Trustee
46-07	64.9	64.5			Boswells Tavern	Taylor, Henry Jr. Trustee
46-08	37.8	37.8			Boswells Tavern	Taylor, Henry Jr. Trustee
46-09	37.4	37.4			Boswells Tavern	Taylor, Henry Jr. Trustee
46-10	22.7	22.1			Boswells Tavern	Taylor, Henry Jr. Trustee
<b>TOTALS:</b>	312.8	308.0				

**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 4/21/13 between Taylor 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 Louisa, 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
21-61			
21-61A			

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			

Henry Taylor Jr Trustee

Landowner - Printed Name, Title

Signature

Mailing Address

Sheldon Taylor

*Sheldon Taylor*

**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.

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)

LEE C. ROSSON

*Lee C. Rossion*

10647 Tidewater Trail  
Champlain, VA 22438

Permittee - Authorized Representative  
Printed Name

Signature

Mailing Address

Permittee: Synagro County or City: Louisa  
 Landowner: Henry Taylor Jr. Trustee

**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).

Henry Taylor Jr. 4/21/12  
 Landowner's Signature Date

## Tax ID Landowner Identification Sheet

<u>Landowner</u>	<u>Field #</u>	<u>Tax ID</u>
TAYLOR, HENRY JR TRUSTEE	46-01	21 - 61, 61A
TAYLOR, HENRY JR TRUSTEE	46-02	21 - 61
TAYLOR, HENRY JR TRUSTEE	46-03	21 - 61
TAYLOR, HENRY JR TRUSTEE	46-04	21 - 61
TAYLOR, HENRY JR TRUSTEE	46-05	21 - 61
TAYLOR, HENRY JR TRUSTEE	46-06	21 - 61
TAYLOR, HENRY JR TRUSTEE	46-07	21 - 61
TAYLOR, HENRY JR TRUSTEE	46-08	21 - 61
TAYLOR, HENRY JR TRUSTEE	46-09	21 - 61
TAYLOR, HENRY JR TRUSTEE	46-10	21 - 61, 61A

<u>Field #</u>	<u>Latitude (north)</u>	<u>Longitude (west)</u>
46-01	38 <sup>0</sup> 02' 39.78"	78 <sup>0</sup> 09' 54.20"
46-02	38 <sup>0</sup> 02' 47.93"	78 <sup>0</sup> 09' 54.24"
46-03	38 <sup>0</sup> 02' 54.84"	78 <sup>0</sup> 09' 54.12"
46-04	38 <sup>0</sup> 03' 07.70"	78 <sup>0</sup> 10' 04.98"
46-05	38 <sup>0</sup> 02' 56.70"	78 <sup>0</sup> 10' 15.39"
46-06	38 <sup>0</sup> 03' 00.48"	78 <sup>0</sup> 10' 22.46"
46-07	38 <sup>0</sup> 02' 52.31"	78 <sup>0</sup> 10' 45.57"
46-08	38 <sup>0</sup> 02' 36.53"	78 <sup>0</sup> 10' 41.07"
46-09	38 <sup>0</sup> 02' 26.96"	78 <sup>0</sup> 10' 31.34"
46-10	38 <sup>0</sup> 02' 35.89"	78 <sup>0</sup> 10' 18.12"



Tax Map ID 21-61, 61A



Scale: 1:361111.909643

Date: 05/07/2012

Printed By:

Louisa County assumes no liability for any errors, omissions, or inaccuracies in the information provided regardless of the cause of such or for any decision made, action taken, or action not taken by the user in reliance upon any maps or data provided herein. Please consult official County plats and records for official information.

## Environmentally Sensitive Areas

Field	Reason for Sensitive Area
46-01	High Water Table (Map Unit IrA - 66%)
46-02	High Water Table (Map Units IrA, Iv - 48%)
46-03	High Water Table (Map Units IrA, Iv - 36%)
46-04	High Water Table (Map Units IrA, IrB - 46%)
46-05	High Water Table (Map Units Eb, IrB - 20%)
46-06	None
46-07	High Water Table (Map Units IrA, WH - 38%) Flooded Soils (Map Unit WH - 8%)
46-08	None
46-09	High Water Table (Map Unit IrA - 35%)
46-10	High Water Table (Map Unit IrA - 17%)

### Louisa County Soils that are Environmentally Sensitive

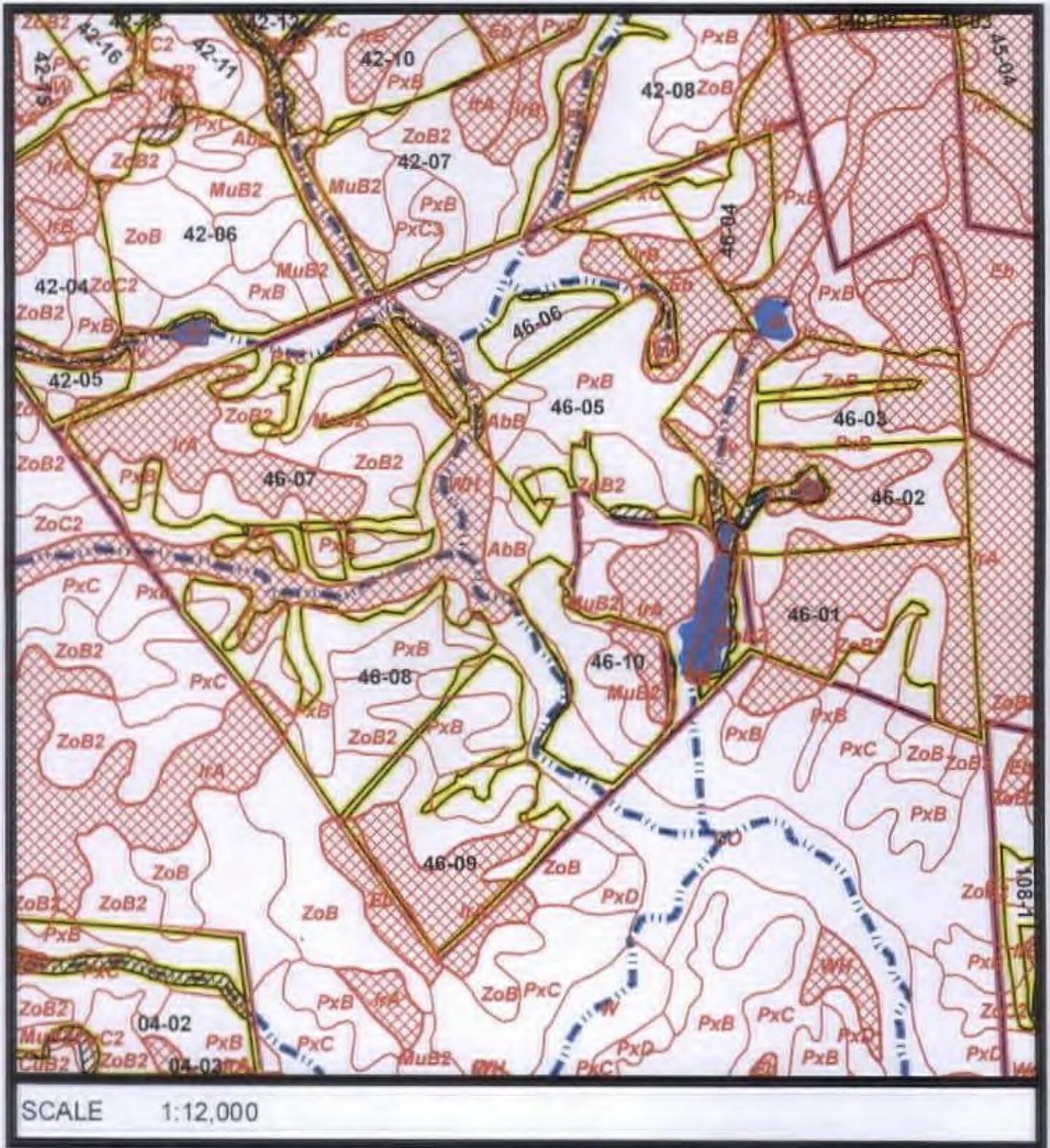
Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
AsB, AsC, AsD	Ashlar			Leaching
AsC3, AsD3	Ashlar			Leaching
AV	Ashlar			Leaching
Ch	Chewacla	Nov - April	Nov - April	
CIB	Colfax	Nov - June		
Eb	Elbert	Nov - May		
FN	Fluvaquents	Nov - April	Nov - April	
Fo	Forestdale	Jan - April	Jan - April	
FrB	Fork	Oct - May	Oct - May	
IdB	Iredell	Dec - April		
IdB2, IdC2	Iredell	Dec - April		
IrA, IrB	Iredell	Dec - April		
Iv	Iredell	Dec - April		
LgB	Lignum	Dec - May		
MnB, MnC, MnD	Madison			Shallow
MoC, MoD	Madison			Shallow
SeB, SeC, SeD	Sekil			Leaching
SeC3	Sekil			Leaching
SP	Sekil			Leaching
To	Tocca		Jan - Dec	
Ts	Tocca		Jan - Dec	
We	Wehadkee	Nov - May	Nov - June	
WH	Wehadkee-Chewacla	Nov - May	Nov - June	
WoB	Worsham	Nov - May		

Field	Map Unit	Acres	Percentage	Soil Series	High Water	Flood	Environmental Sensitive
46-01	IrA	22.1	66	Iredell	Dec-April		
46-01	ZoB2	9.6	28				
46-01	PxB	1.9	6				
46-02	PxB	12.4	52				
46-02	Iv	8.8	37	Iredell	Dec-April		
46-02	IrA	2.8	11	Iredell	Dec-April		
46-03	PxB	8.5	42				
46-03	IrA	6.0	30	Iredell	Dec-April		
46-03	ZoB	4.4	22				
46-03	Iv	1.1	6	Iredell	Dec-April		
46-04	IrA	4.7	40	Iredell	Dec-April		
46-04	PxB	4.4	37				
46-04	PxC	2.0	17				
46-04	IrB	0.7	6	Iredell	Dec-April		
46-05	PxB	23.0	49				
46-05	ZoB2	7.7	16				
46-05	Eb	6.6	14	Elbert	Nov-May		
46-05	PxC	4.6	10				
46-05	IrB	2.8	6	Iredell	Dec-April		
46-05	AbB	2.4	5				
46-06	PxC	4.5	63				
46-06	PxB	2.6	37				
46-07	IrA	19.6	30	Iredell	Dec-April		
46-07	PxC	17.6	27				
46-07	ZoB2	11.4	18				
46-07	PxB	5.6	9				
46-07	MuB2	5.2	8				
46-07	WH	5.1	8	Wehadkee-Chew	Nov-May	Nov-June	
46-08	PxB	12.6	36				
46-08	PxC	11.2	33				
46-08	ZoB2	7.4	21				
46-08	ZoB	3.5	10				
46-09	IrA	12.7	35	Iredell	Dec-April		
46-09	PxC	8.3	23				
46-09	ZoB2	7.1	19				
46-09	PxB	5.2	14				
46-09	ZoB	3.3	9				
46-10	PxC	9.5	43				
46-10	MuB2	4.8	22				
46-10	CO	3.8	18				
46-10	IrA	3.8	17	Iredell	Dec-April		

# MAP LEGEND

-  House/Dwelling with a well
-  Rock Outcrop
-  Well
-  Lake/Pond
-  Slope which exceeds 15%
-  Intermittent Stream
-  Stream/River
-  Agricultural/Drainage Ditch
-  Field boundary
-  Property Line – (Standard 100'  
Buffer, unless waiver issued)

Revised: Jan. 13, '14

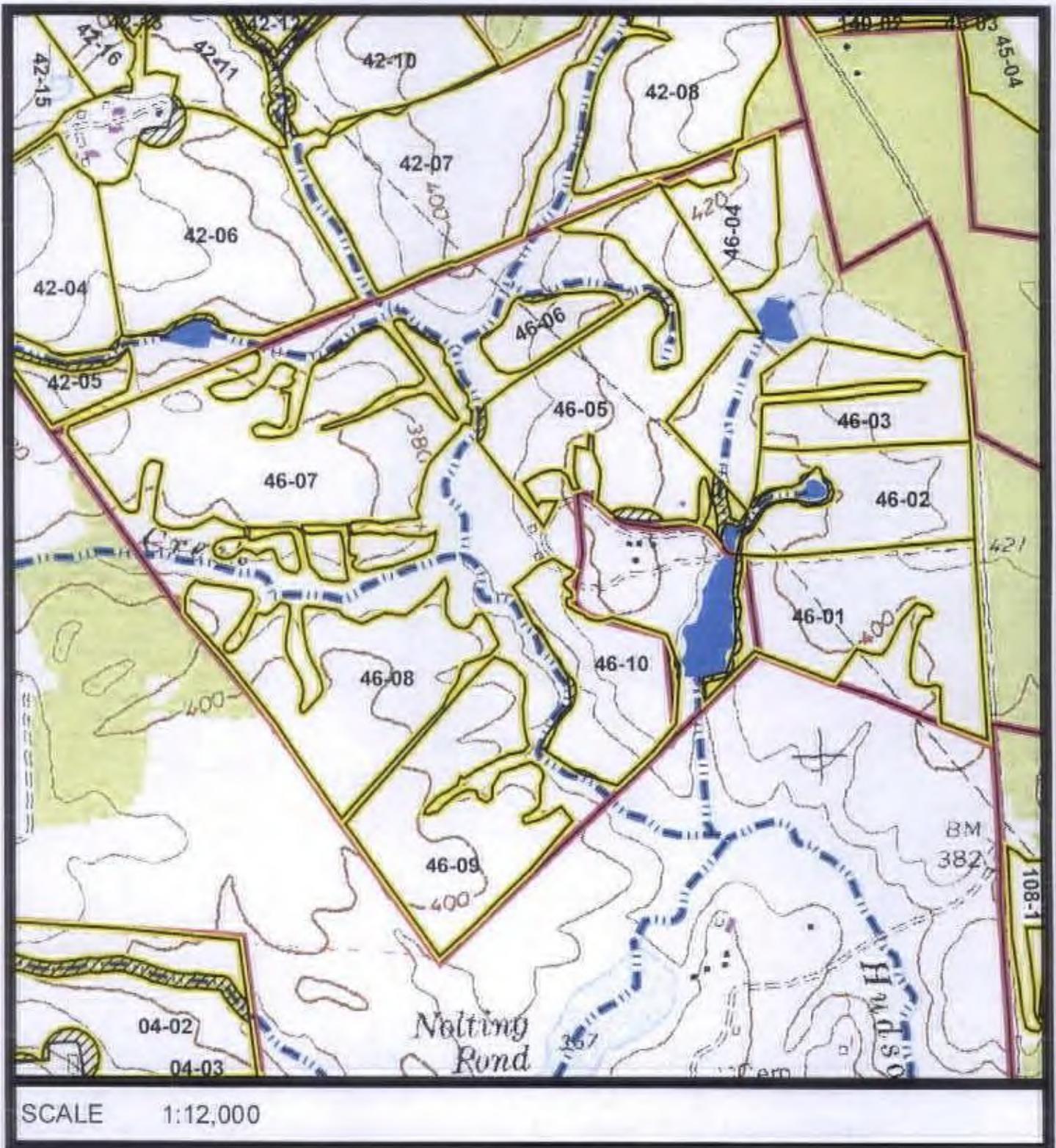


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## SOIL MAP

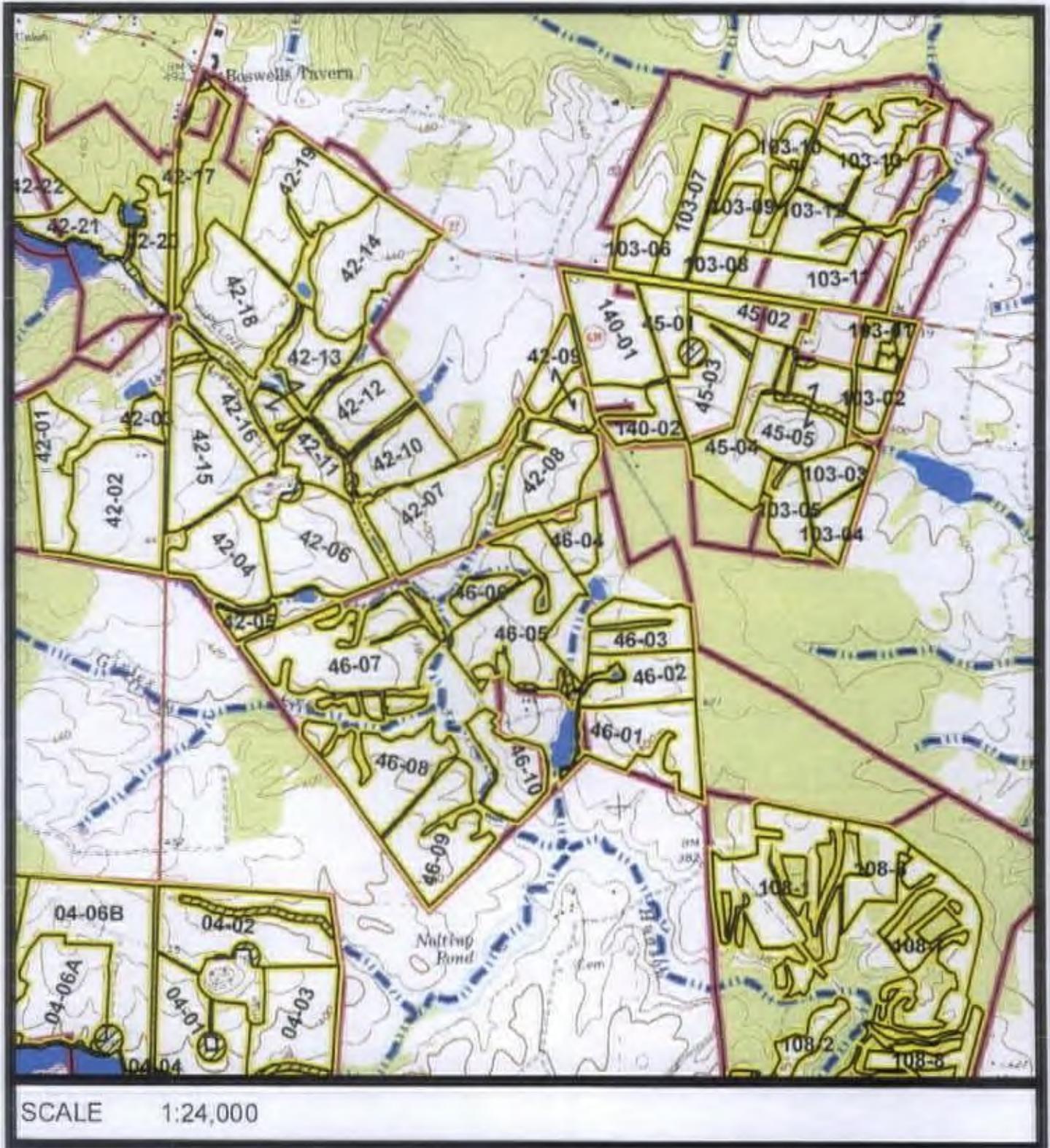
 Environmentally Sensitive Soil





TOPO MAP

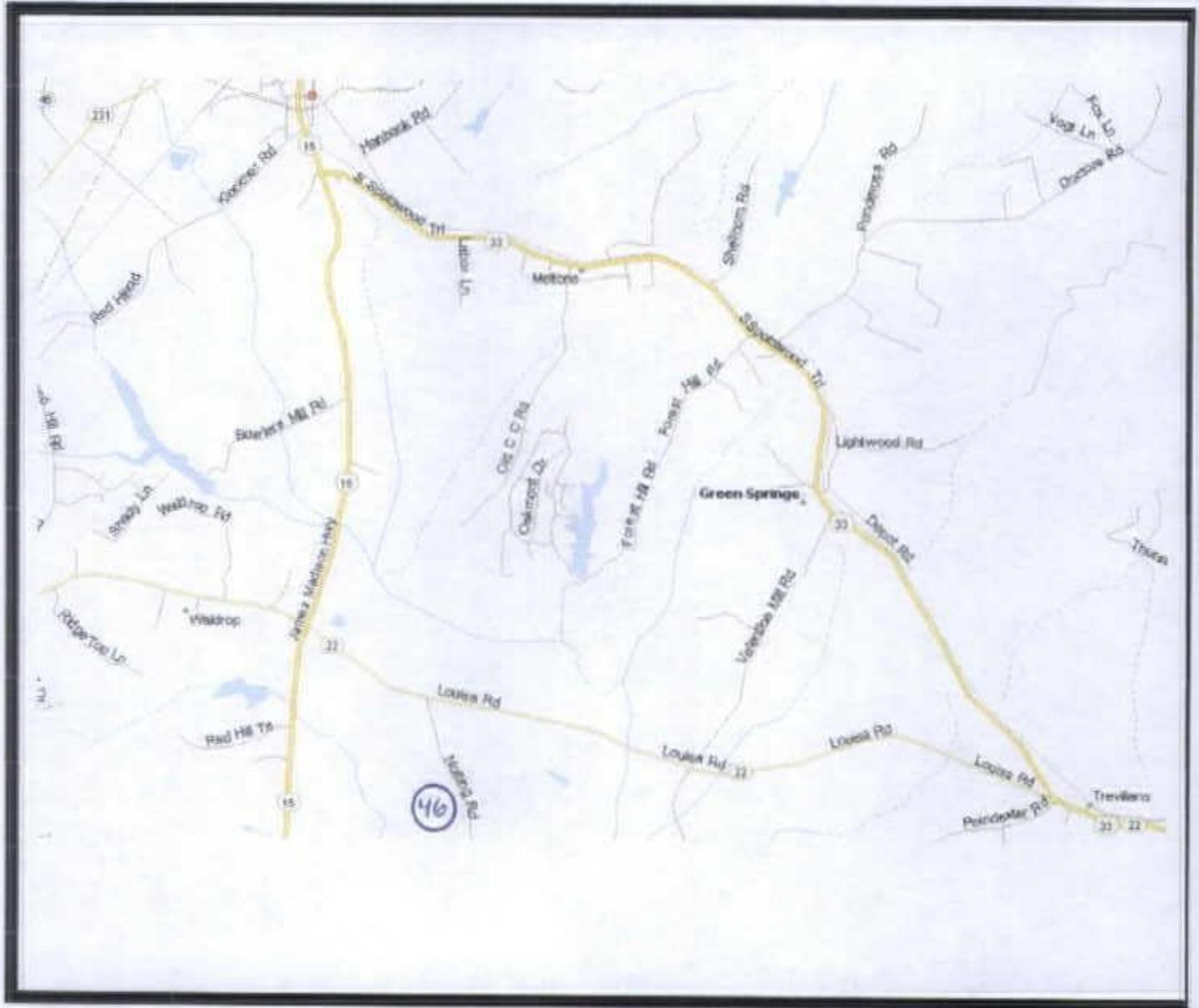




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TOPO MAP





LOCATION MAP

