

MAP LEGEND

| | |
|---|--|
|  | Buffer Area |
|  | Property Line (100ft Buffer) |
|  | North Symbol |
|  | Surface Water |
|  | Field Boundary |
| rck | Rock Outcrop (25ft Buffer) |
|  | Severe Slope/Erosion |
|  | Sink Hole (100ft Buffer) |
|  | Intermittent Stream (100ft Buffer) |
|  | Occupied Dwelling/Structures/Well (200ft Buffer) |
|  | Frequently Flooded Area/Drainage Way/Wet Spot |
|  | Public Roadway (10ft Buffer) |
|  | Road Map Hauling Route |
|  | OSR/Public Access Sites (400ft Buffer) |
|  | Public Water Supply/Additional Water Well (100ft Buffer) |

**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 July 10, 2013 between Frankie Large Jr referred to here as "Landowner", and Nutri-Blend 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 Buckingham + Cumberland, 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 |
| 033 A 21 | | | |
| 115 42 | | | |
| | | | |
| | | | |

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

Frankie Large Jr - owner
 Landowner - Printed Name, Title

[Signature]
 Signature

3702 Trent Mill Rd Dinwiddie VA
 Mailing Address 23934

Permittee:

Nutri-Blend 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)

A. Wayne Watkins
 Permittee - Authorized Representative
 Printed Name

[Signature]
 Signature

P.O. Box 38060
Richmond, Va. 23231
 Mailing Address

Permittee: Nutri-Blend Inc.

County or City: Richmond, VA

Landowner: Frankie Large Jr

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

July 10, 2013

 Date

 Operator's Name Contact Number

NutriBlend

IOSOLIDS LAND APPLICATION



**Large
T-1207**



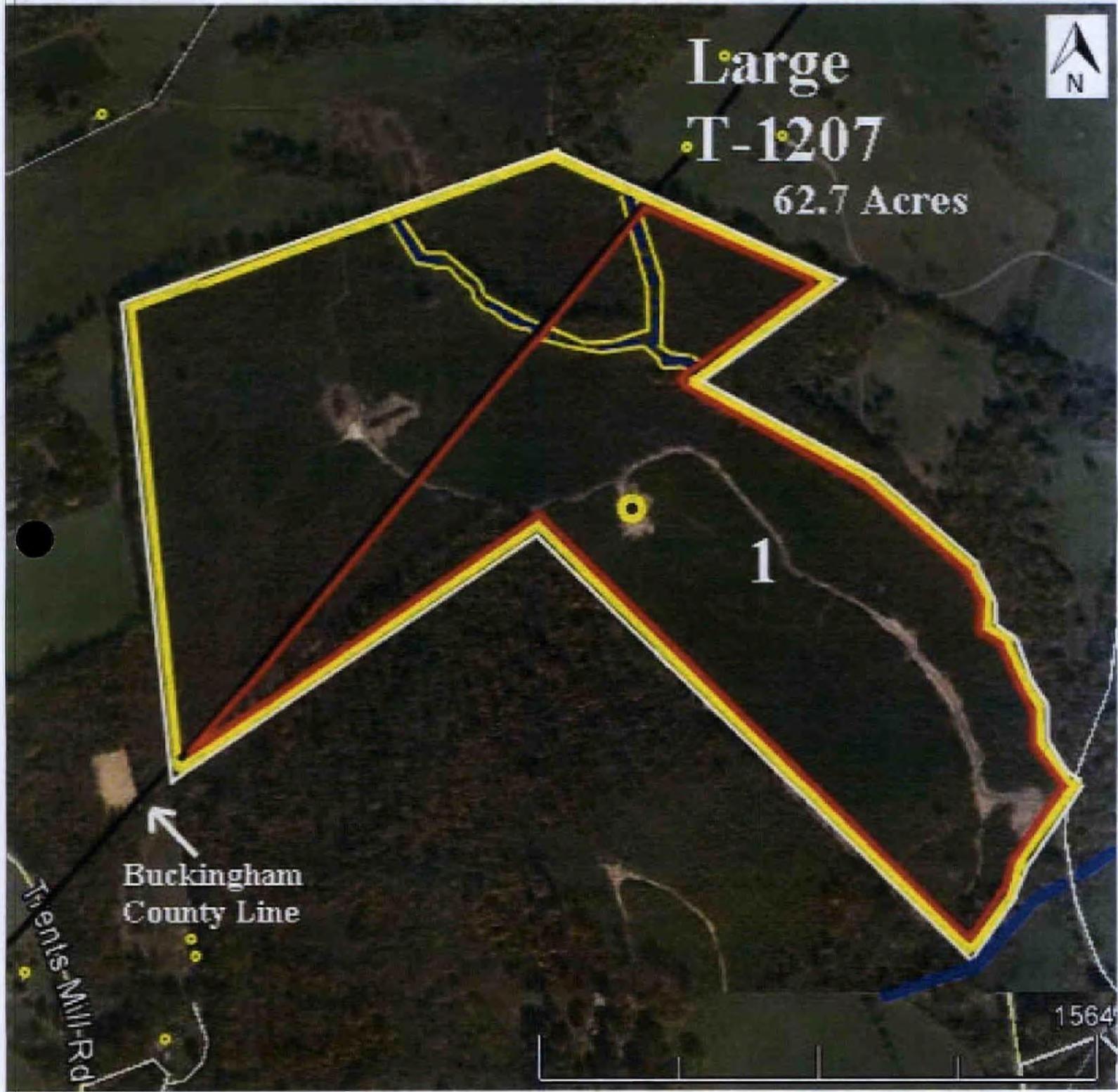
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D. Q. B. RC

NutriBlend

LIOSOLIDS LAND APPLICATION

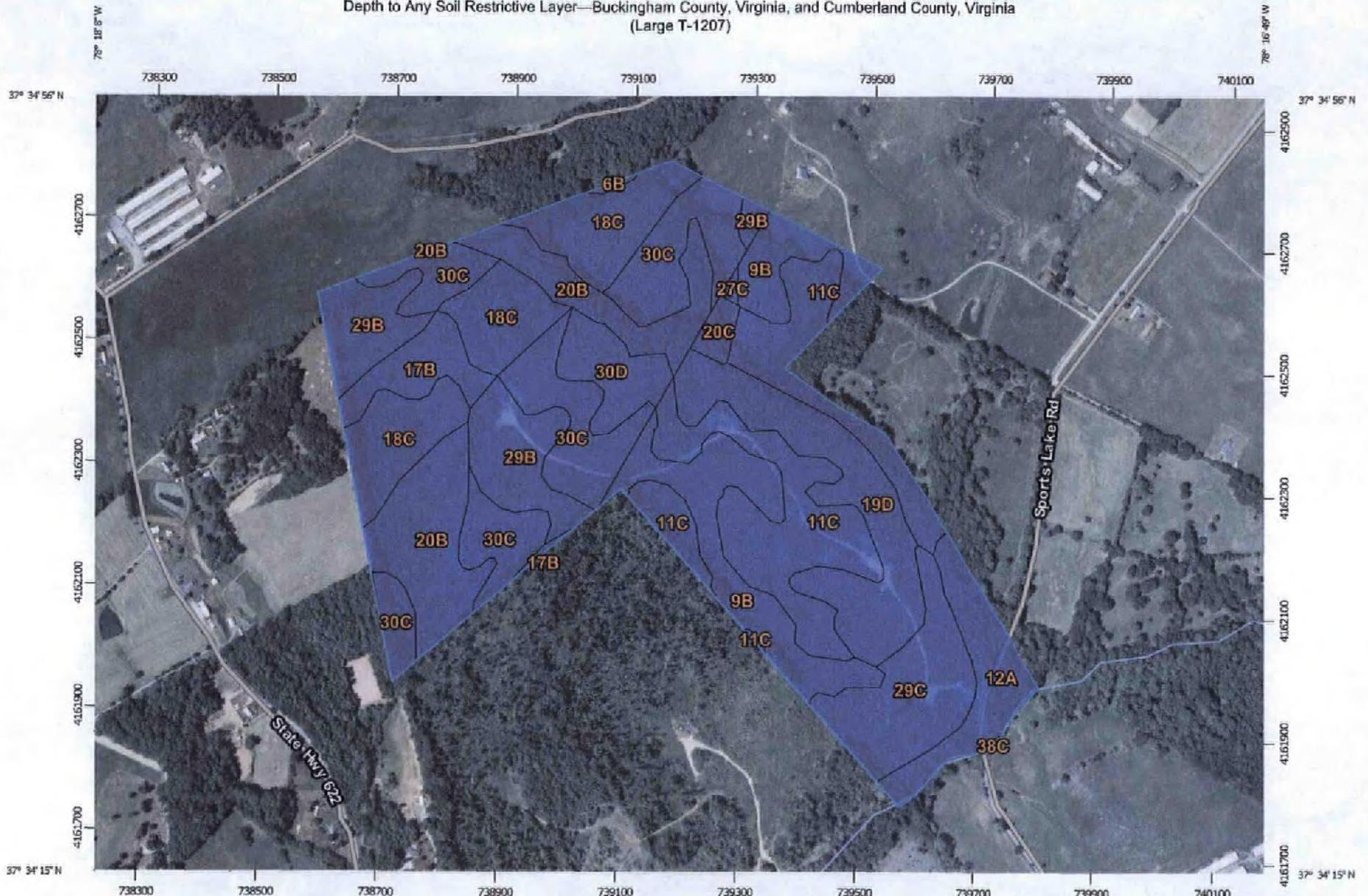


Large
T-1207
62.7 Acres



- Buffer Area
- Field Boundry
- Intermittent Stream
- Occupied Dwelling/Structures
- Public Roadway
- Property Line
- Surface Water

Depth to Any Soil Restrictive Layer—Buckingham County, Virginia, and Cumberland County, Virginia
(Large T-1207)



Map Scale: 1:8,940 if printed on A landscape (11" x 8.5") sheet.

0 100 200 400 600 Meters

0 400 800 1600 2400 Feet

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



MAP LEGEND

| | |
|---|--|
|  Area of Interest (AOI) |  Not rated or not available |
| Soils | Water Features |
| Soil Rating Polygons |  Streams and Canals |
|  0 - 25 | Transportation |
|  25 - 50 |  Rails |
|  50 - 100 |  Interstate Highways |
|  100 - 150 |  US Routes |
|  150 - 200 |  Major Roads |
|  > 200 |  Local Roads |
|  Not rated or not available | Background |
| Soil Rating Lines |  Aerial Photography |
|  0 - 25 | |
|  25 - 50 | |
|  50 - 100 | |
|  100 - 150 | |
|  150 - 200 | |
|  > 200 | |
|  Not rated or not available | |
| Soil Rating Points | |
|  0 - 25 | |
|  25 - 50 | |
|  50 - 100 | |
|  100 - 150 | |
|  150 - 200 | |
|  > 200 | |

MAP INFORMATION

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: <http://websoilsurvey.nrcs.usda.gov>
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: Buckingham County, Virginia
Survey Area Data: Version 2, Dec 11, 2013

Soil Survey Area: Cumberland County, Virginia
Survey Area Data: Version 11, Dec 11, 2013

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

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

Date(s) aerial images were photographed: May 10, 2010—Jul 4, 2010

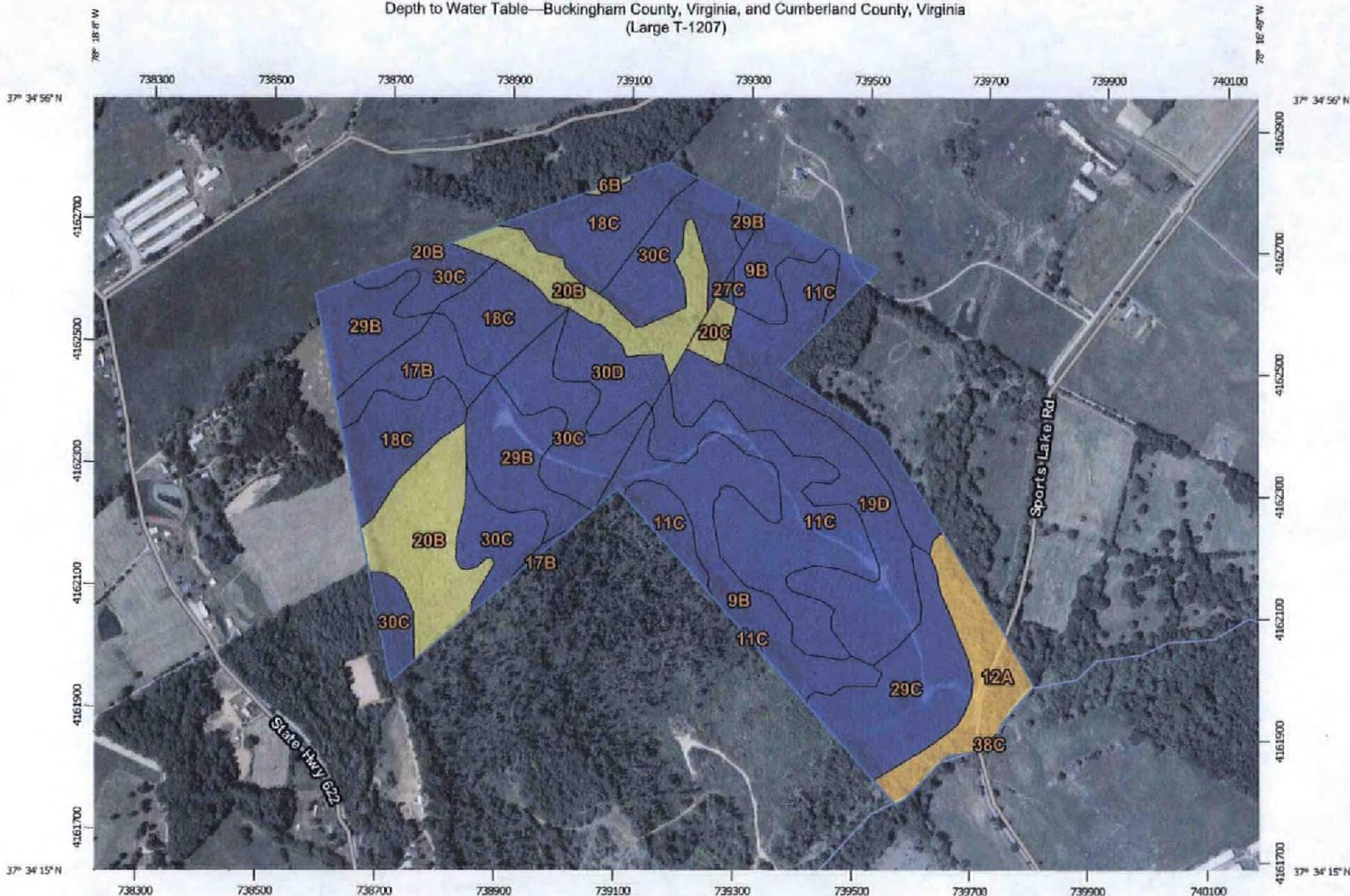
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Depth to Any Soil Restrictive Layer

| Depth to Any Soil Restrictive Layer— Summary by Map Unit — Buckingham County, Virginia (VA029) | | | | |
|--|--|----------------------|--------------|----------------|
| Map unit symbol | Map unit name | Rating (centimeters) | Acres in AOI | Percent of AOI |
| 6B | Bentley-Fairview complex, 2 to 7 percent slopes | >200 | 0.2 | 0.1% |
| 17B | Fairview sandy loam, 2 to 7 percent slopes | >200 | 4.9 | 3.1% |
| 18C | Fairview-Devotion complex, 7 to 15 percent slopes | >200 | 18.8 | 11.8% |
| 20B | Halifax-Delanco complex, 2 to 7 percent slopes, rarely flooded | >200 | 17.3 | 10.8% |
| 29B | Oak Level-Diana Mills complex, 2 to 7 percent slopes | >200 | 12.7 | 8.0% |
| 30C | Oak Level-Siloam complex, 7 to 15 percent slopes | >200 | 23.7 | 14.9% |
| 30D | Oak Level-Siloam complex, 15 to 25 percent slopes | >200 | 5.0 | 3.2% |
| Subtotals for Soil Survey Area | | | 82.6 | 51.8% |
| Totals for Area of Interest | | | 159.3 | 100.0% |

| Depth to Any Soil Restrictive Layer— Summary by Map Unit — Cumberland County, Virginia (VA049) | | | | |
|--|---|----------------------|--------------|----------------|
| Map unit symbol | Map unit name | Rating (centimeters) | Acres in AOI | Percent of AOI |
| 9B | Clifford sandy loam, 2 to 7 percent slopes | >200 | 16.0 | 10.1% |
| 11C | Clifford clay loam, 7 to 15 percent slopes, severely eroded | >200 | 25.1 | 15.8% |
| 12A | Codorus loam, 0 to 2 percent slopes, frequently flooded | >200 | 7.7 | 4.8% |
| 19D | Fairview-Devotion complex, 15 to 25 percent slopes | >200 | 16.3 | 9.6% |
| 20C | Halifax sandy loam, 7 to 15 percent slopes | >200 | 1.3 | 0.8% |
| 27C | Nathalie-Halifax complex, 7 to 15 percent slopes | >200 | 0.2 | 0.1% |
| 29C | Oak Level-Siloam complex, 7 to 15 percent slopes | >200 | 11.0 | 6.9% |

Depth to Water Table—Buckingham County, Virginia, and Cumberland County, Virginia
(Large T-1207)



Map Scale: 1:8,940 if printed on a landscape (11" x 8.5") sheet.



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

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|  50 - 100 |  Interstate Highways |
|  100 - 150 |  US Routes |
|  150 - 200 |  Major Roads |
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|  Not rated or not available | Background |
| Soil Rating Lines |  Aerial Photography |
|  0 - 25 | |
|  25 - 50 | |
|  50 - 100 | |
|  100 - 150 | |
|  150 - 200 | |
|  > 200 | |
|  Not rated or not available | |
| Soil Rating Points | |
|  0 - 25 | |
|  25 - 50 | |
|  50 - 100 | |
|  100 - 150 | |
|  150 - 200 | |
|  > 200 | |

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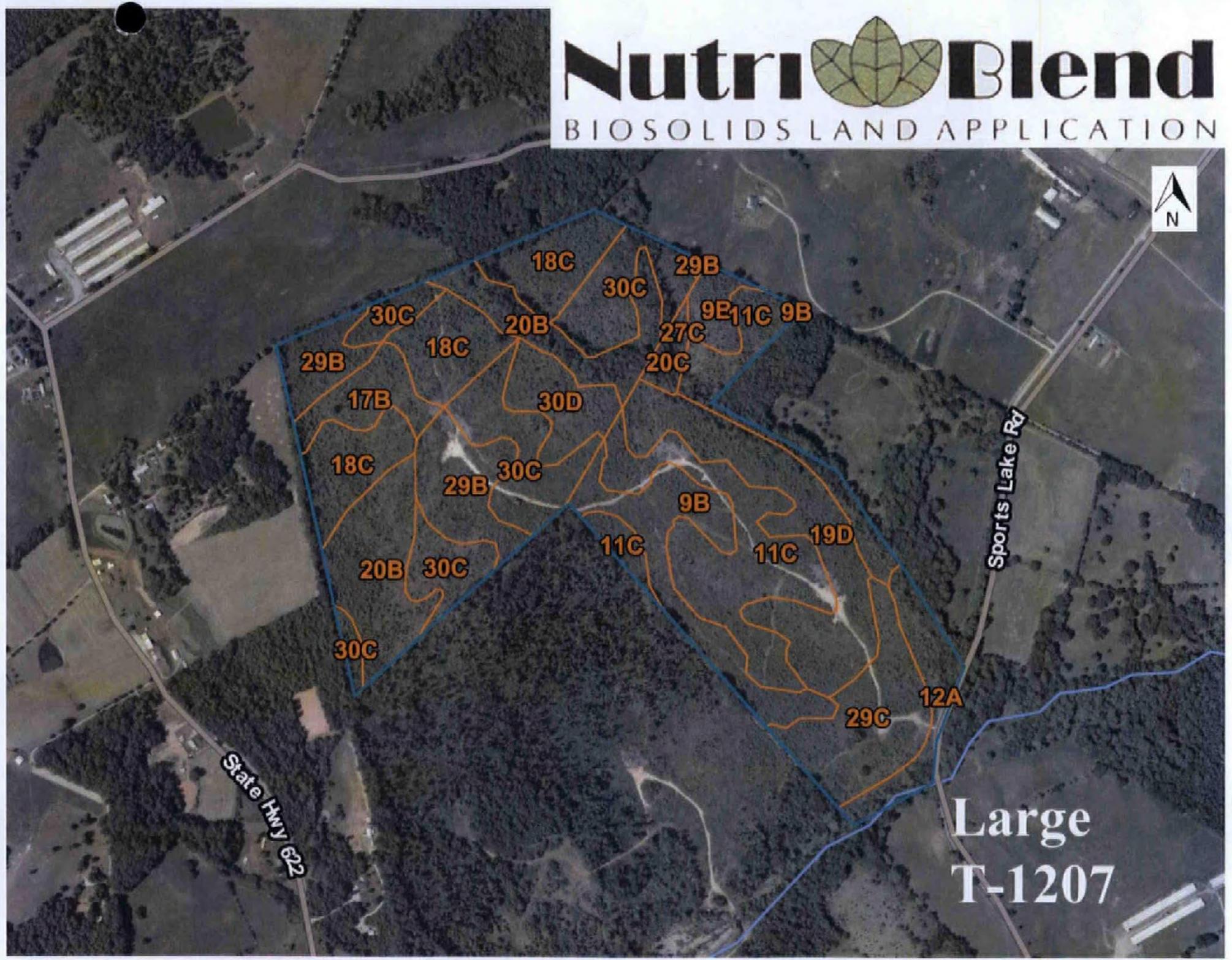
Depth to Water Table

| Depth to Water Table— Summary by Map Unit — Buckingham County, Virginia (VA028) | | | | |
|---|--|----------------------|--------------|----------------|
| Map unit symbol | Map unit name | Rating (centimeters) | Acres in AOI | Percent of AOI |
| 6B | Bentley-Fairview complex, 2 to 7 percent slopes | 91 | 0.2 | 0.1% |
| 17B | Fairview sandy loam, 2 to 7 percent slopes | >200 | 4.9 | 3.1% |
| 18C | Fairview-Devotion complex, 7 to 15 percent slopes | >200 | 18.8 | 11.8% |
| 20B | Halifax-Delanco complex, 2 to 7 percent slopes, rarely flooded | 64 | 17.3 | 10.8% |
| 29B | Oak Level-Diana Mills complex, 2 to 7 percent slopes | >200 | 12.7 | 8.0% |
| 30C | Oak Level-Siloam complex, 7 to 15 percent slopes | >200 | 23.7 | 14.9% |
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| Depth to Water Table— Summary by Map Unit — Cumberland County, Virginia (VA049) | | | | |
|---|---|----------------------|--------------|----------------|
| Map unit symbol | Map unit name | Rating (centimeters) | Acres in AOI | Percent of AOI |
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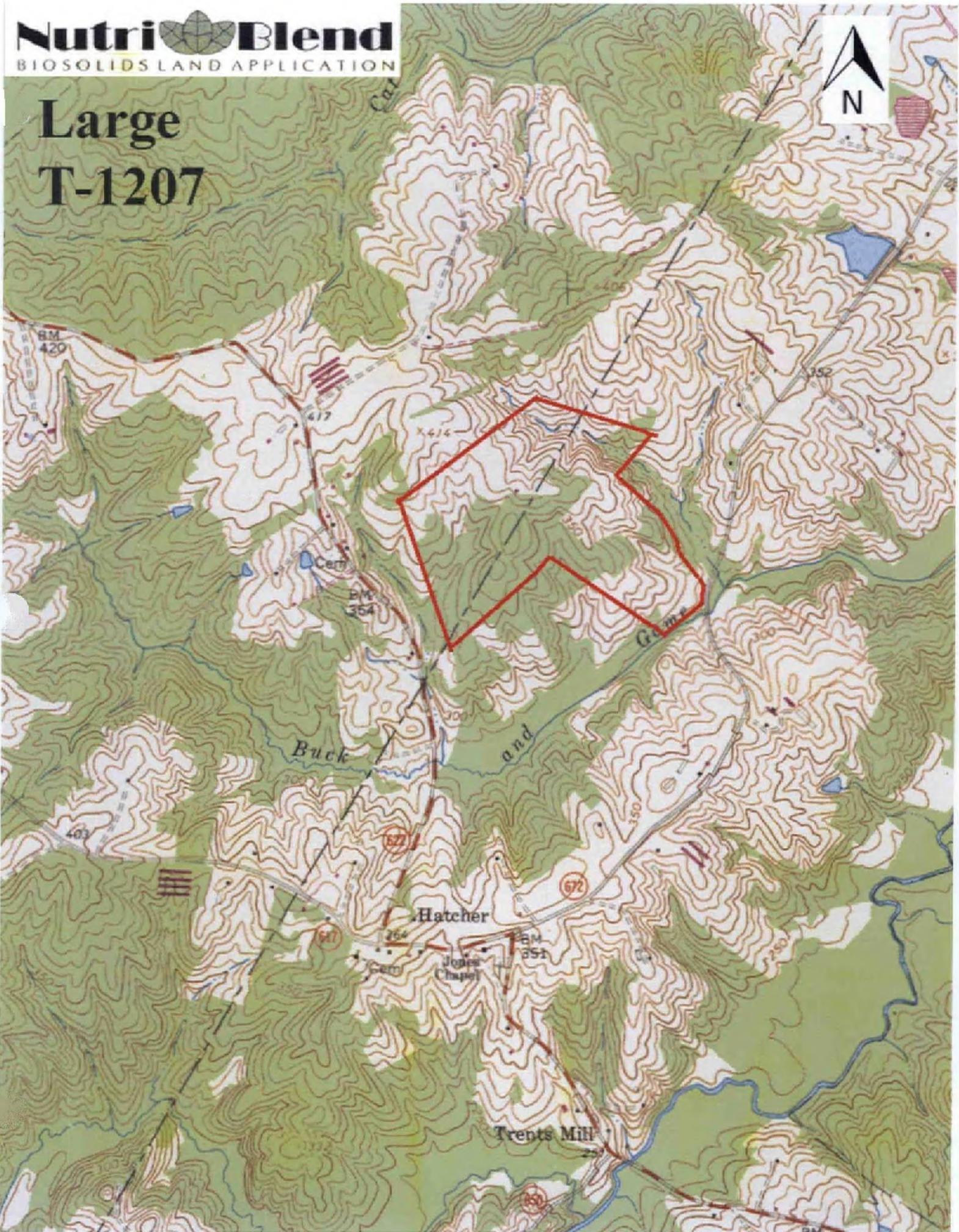
NutriBlend

BIOSOLIDS LAND APPLICATION



Large
T-1207

Large T-1207



LARGE FARM
Tract 1207
Field Data Sheet

| Field | Total | Field Coordinates | |
|----------|--------------------------------|-------------------|------------|
| | Acres | Latitude | Longitude |
| 1 | 62.4 Cumb 70.6 Buck Co. | 37.575489 | -78.288814 |
| 1 | 62.40 | | |

watershed code

JM-68

Site Type

Agriculture

Tax ID

33-A-21

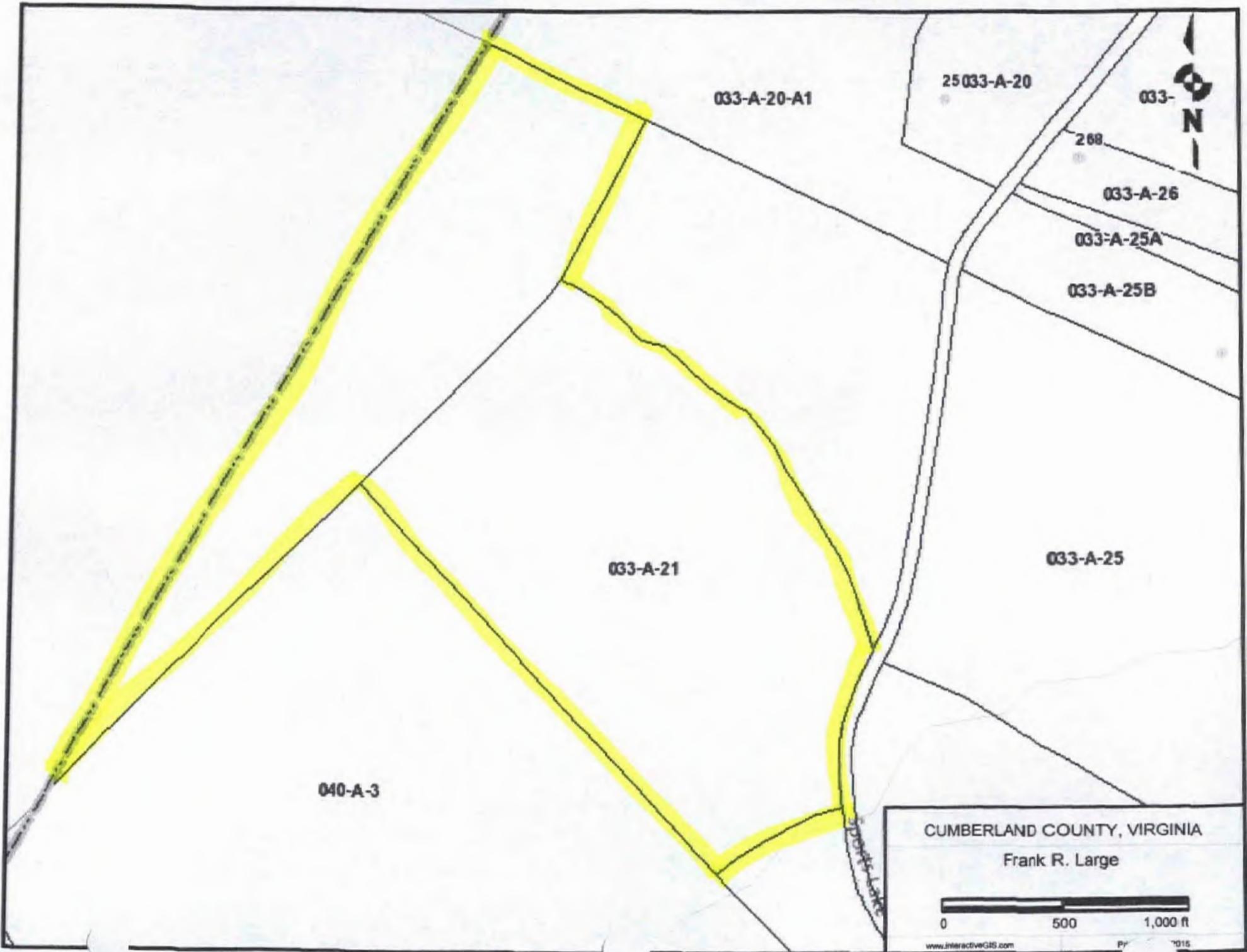
Agricultural Practice: See Nutrient Management Plan for Yearly crop rotation

USDA Soil info on depth to bedrock&water table when applicable in Nutrient Management Plan

owner

FRANKIE LARGE JR.

*NRCS Web soil survey places the county line differently than other sources



033-A-20-A1

25033-A-20

033-

268

033-A-26

033-A-25A

033-A-25B

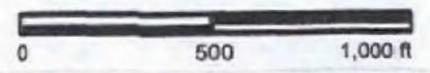
033-A-21

033-A-25

040-A-3

CUMBERLAND COUNTY, VIRGINIA

Frank R. Large



www.interactiveGIS.com

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