

USDA

United States Department of Agriculture Farm Service Agency

Farm: 5051 Tract: 7532 **Accomack County**

1:6,000

March 25, 2019

daimer: Wetland identifiers do not represent the size, shape or specific determination of the area.

Refer to your original determination (CPA-028 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.





Parcel Boundary
Application Area

Occupied Dwellings

Occupied Dwellings 200 ft Buffer

-Stream

Ag Ditch 10 ft Buffer

Streams 35 ft Buffer

Roads

Road 10 ft Buffer

Farm: 5051 Tract: 7532 Total Field Acres: Field 1: 36.2 Total Application Acres: Field 1: 34.74



Accomack County, Virginia



Accomack County, Virginia

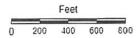
Legend

Tax Parcel 25-A-47

Operator: Tommy Davis

Owner: Beverly Fletcher

Map Printed from AccoMap http://accomack.mapsdirect.net/

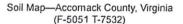




Title: Farm 5051 Tract 7532 Field 1

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records,information, and data obtained from various sources, and Accomack County is not responsible for its accuracy or how current it may be.





MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines
Soil Map Unit Points



Blowout

Ø

Borrow Pit Clay Spot

×

Closed Depression

X

Gravelly Spot

00

Landfill

À.

Marsh or swamp

....

Mine or Quarry

Lava Flow

0

Miscellaneous Water
Perennial Water

0

Rock Outcrop

+ Saline Spot

Sandy Spot

Severely Eroded Spot

Ò

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

0

Stony Spot



Very Stony Spot Wet Spot

Other

 \triangle

Special Line Features

Water Features

Streams and Canals

Transportation

+++

Rails

Interstate Highways

~

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

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: Accomack County, Virginia Survey Area Data: Version 16, Jun 3, 2020

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

Date(s) aerial images were photographed: Dec 31, 2009—Sep 24, 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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BhB	Bojac loamy sand, 2 to 6 percent slopes	6.0	16.2%
BkA	Bojac sandy loam, 0 to 2 percent slopes	29.0	77.8%
DrA	Dragston fine sandy loam, 0 to 2 percent slopes	0.1	0.2%
McA	Melfa-Hobucken complex, 0 to 1 percent slopes, frequently flooded	0.0	0.1%
MuA	Munden sandy loam, 0 to 2 percent slopes	2.0	5.5%
PoA	Polawana mucky sandy loam, 0 to 2 percent slopes, frequently flooded	0.1	0.2%
Totals for Area of Interest		37.2	100.0%

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An undifferentiated group is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description

Accomack County, Virginia

AmA—Arapahoe-Melfa complex, 0 to 2 percent slopes, frequently flooded

Map Unit Setting
National map unit symbol: 3yvr



Elevation: 0 to 20 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Arapahoe and similar soils: 45 percent Melfa and similar soils: 40 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Arapahoe

Setting

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 13 inches: mucky loam H2 - 13 to 34 inches: loam H3 - 34 to 85 inches: sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 0 to 12 inches Frequency of flooding: FrequentNone

Frequency of ponding: None

Available water capacity: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6w

Hydrologic Soil Group: A/D Hydric soil rating: Yes

Description of Melfa

Setting

Landform: Salt marshes
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Marine sediments

Typical profile

Oe - 0 to 6 inches: mucky peat H2 - 6 to 13 inches: sandy loam



Natural Resources

Conservation Service

H3 - 13 to 50 inches: sandy loam H4 - 50 to 85 inches: coarse sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 0 inches Frequency of flooding: Frequent Frequency of ponding: None

Maximum salinity: Slightly saline to strongly saline (7.0 to 30.0

mmhos/cm)

Sodium adsorption ratio, maximum: 90.0 Available water capacity: High (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8w

Hydrologic Soil Group: A/D Hydric soil rating: Yes

BhB-Bojac loamy sand, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: 3yvv Elevation: 10 to 250 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Bojac and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

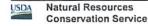
Description of Bojac

Setting

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 7 inches: loamy sand H2 - 7 to 40 inches: loam H3 - 40 to 85 inches: sand



Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 48 to 72 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: A Hydric soil rating: No

BkA—Bojac sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yvw

Elevation: 10 to 250 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Bojac and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Bojac

Setting

Landform: Terraces

Down-slope shape: Convex Across-slope shape: Convex Parent material: Marine sediments

Typical profile

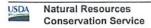
H1 - 0 to 7 inches: sandy loam H2 - 7 to 40 inches: loam H3 - 40 to 85 inches: sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible



Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 48 to 72 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Low (about 5.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 1

Hydrologic Soil Group: A Hydric soil rating: No

DrA—Dragston fine sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yw0

Elevation: 0 to 20 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Prime farmland if drained

Map Unit Composition

Dragston and similar soils: 90 percent

Minor components: 3 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Dragston

Setting

Landform: Terraces

Down-slope shape: Convex Across-slope shape: Convex Parent material: Marine sediments

Typical profile

H1 - 0 to 6 inches: fine sandy loam

H2 - 6 to 40 inches: loam H3 - 40 to 85 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches Drainage class: Somewhat poorly drained

Runoff class: Negligible

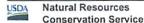
Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 12 to 30 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Moderate (about 6.2 inches)



Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: A/D Hydric soil rating: No

Minor Components

Arapahoe

Percent of map unit: 3 percent Landform: Depressions Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: Yes

McA—Melfa-Hobucken complex, 0 to 1 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 3yw5

Elevation: 0 to 10 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Melfa and similar soils: 45 percent Hobucken and similar soils: 40 percent

Minor components: 1 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Melfa

Setting

Landform: Tidal flats
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Marine sediments

Typical profile

Oe - 0 to 6 inches: mucky peat H2 - 6 to 13 inches: sandy loam H3 - 13 to 50 inches: sandy loam H4 - 50 to 85 inches: coarse sand

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible



Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 0 inches Frequency of flooding: Frequent Frequency of ponding: None

Maximum salinity: Slightly saline to strongly saline (7.0 to 30.0

mmhos/cm)

Sodium adsorption ratio, maximum: 90.0 Available water capacity: High (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8w

Hydrologic Soil Group: A/D Hydric soil rating: Yes

Description of Hobucken

Setting

Landform: Tidal flats
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Marine sediments

Typical profile

H1 - 0 to 13 inches: loam H2 - 13 to 40 inches: loam H3 - 40 to 85 inches: sand

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 5.95 in/hr)

Depth to water table: About 0 inches Frequency of flooding: Frequent Frequency of ponding: Frequent

Maximum salinity: Strongly saline (16.0 to 70.0 mmhos/cm)

Sodium adsorption ratio, maximum: 50.0

Available water capacity: Moderate (about 7.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: A/D Hydric soil rating: Yes

Minor Components

Chincoteague

Percent of map unit: 1 percent Landform: Salt marshes



Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: Yes

MoD-Molena loamy sand, 6 to 35 percent slopes

Map Unit Setting

National map unit symbol: 3yw7

Elevation: 20 to 70 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Molena and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Molena

Setting

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 8 inches: loamy sand H2 - 8 to 45 inches: loamy sand H3 - 45 to 85 inches: sand

Properties and qualities

Slope: 6 to 35 percent

Depth to restrictive feature: More than 80 inches Drainage class: Somewhat excessively drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): High to

very high (1.98 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

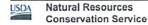
Available water capacity: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A Hydric soil rating: No



MuA-Munden sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yw8

Elevation: 0 to 150 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Munden and similar soils: 90 percent Minor components: 6 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Munden

Setting

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 8 inches: sandy loam H2 - 8 to 40 inches: sandy loam H3 - 40 to 85 inches: loamy sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)

Depth to water table: About 18 to 30 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Moderate (about 6.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: B Hydric soil rating: No

Minor Components

Nimmo

Percent of map unit: 6 percent Landform: Depressions



Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: Yes

NmA—Nimmo sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yw9

Elevation: 10 to 100 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Prime farmland if drained

Map Unit Composition

Nimmo and similar soils: 85 percent

Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Nimmo

Setting

Landform: Terraces

Down-slope shape: Convex Across-slope shape: Convex Parent material: Marine sediments

Typical profile

H1 - 0 to 6 inches: sandy loam H2 - 6 to 32 inches: loam H3 - 32 to 85 inches: sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: About 0 to 12 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Low (about 5.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: B/D Hydric soil rating: Yes



Minor Components

Polawana

Percent of map unit: 2 percent

Landform: Terraces
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: Yes

PoA—Polawana mucky sandy loam, 0 to 2 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 3ywb

Elevation: 10 to 100 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Polawana and similar soils: 95 percent

Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Polawana

Setting

Landform: Drainageways
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Marine sediments

Typical profile

H1 - 0 to 22 inches: mucky sandy loam H2 - 22 to 85 inches: loamy fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High to

very high (5.95 to 19.98 in/hr)

Depth to water table: About 0 inches

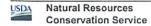
Frequency of flooding: FrequentNone

Frequency of ponding: Frequent

Available water capacity: Low (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified



Land capability classification (nonirrigated): 6w

Hydrologic Soil Group: AID Hydric soil rating: Yes

Minor Components

Nimmo

Percent of map unit: 2 percent Landform: Depressions Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: Yes

W-Water

Map Unit Setting

National map unit symbol: 3ywf Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Water: 100 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Water

Setting

Down-slope shape: Linear Across-slope shape: Linear

Data Source Information

Soil Survey Area: Accomack County, Virginia Survey Area Data: Version 16, Jun 3, 2020





USDA

United States Department of Agriculture Farm Service Agency

Farm: 5051 Tract: 7531 **Accomack County**

1:11,208

March 26, 2019

daimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.





Parcel Boundary

Application Area

Occupied Dwellings

Occupied Dwellings 200 ft Buffer

--- Stream

Ag Ditch 10 ft Buffer

Streams 35 ft Buffer

Roads

Road 10 ft Buffer

Farm: 5051

Tract: 7531

Total Field Acres: Field 1: 47.4

Total Application Acres: Field 1: 45.65



Accomack County, Virginia

1 inch = 255 feet



Parcel Boundary

Application Area

Cocupied Dwellings Occupied Dwellings 200 ft Buffer

--- Stream

Ag Ditch 10 ft Buffer

Streams 35 ft Buffer

Roads

Road 10 ft Buffer

Farm: 5051 Tract: 7531

Accomack County, Virginia

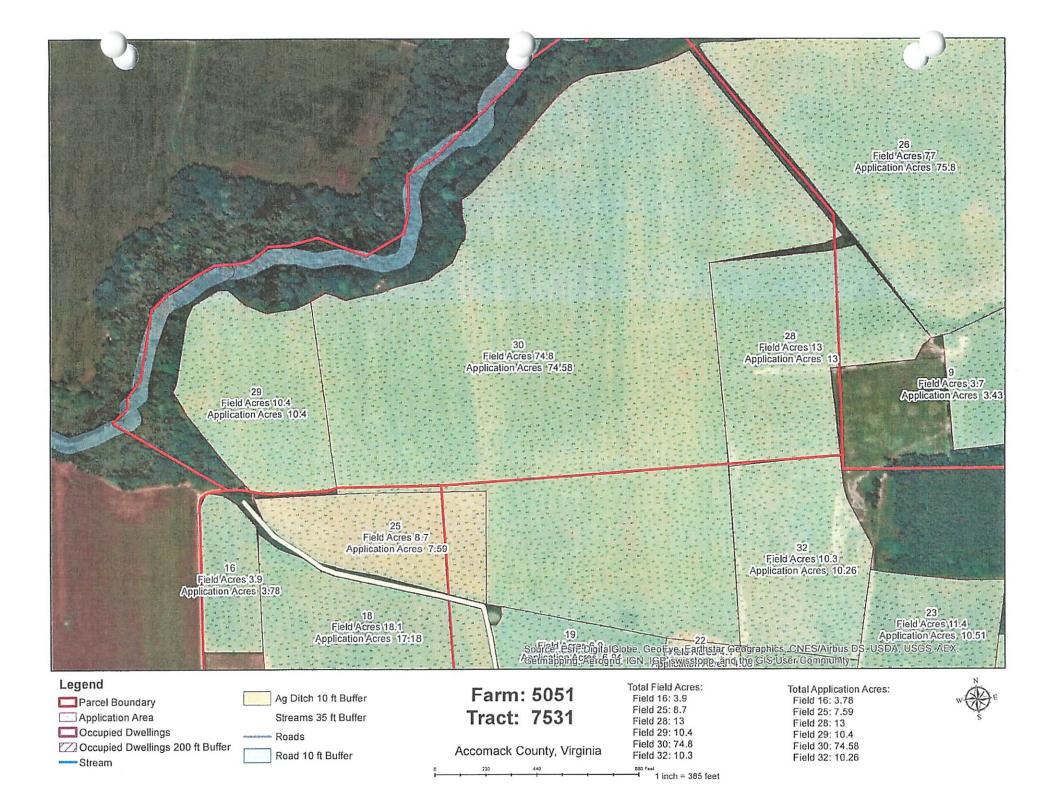
Field 4: 6.6

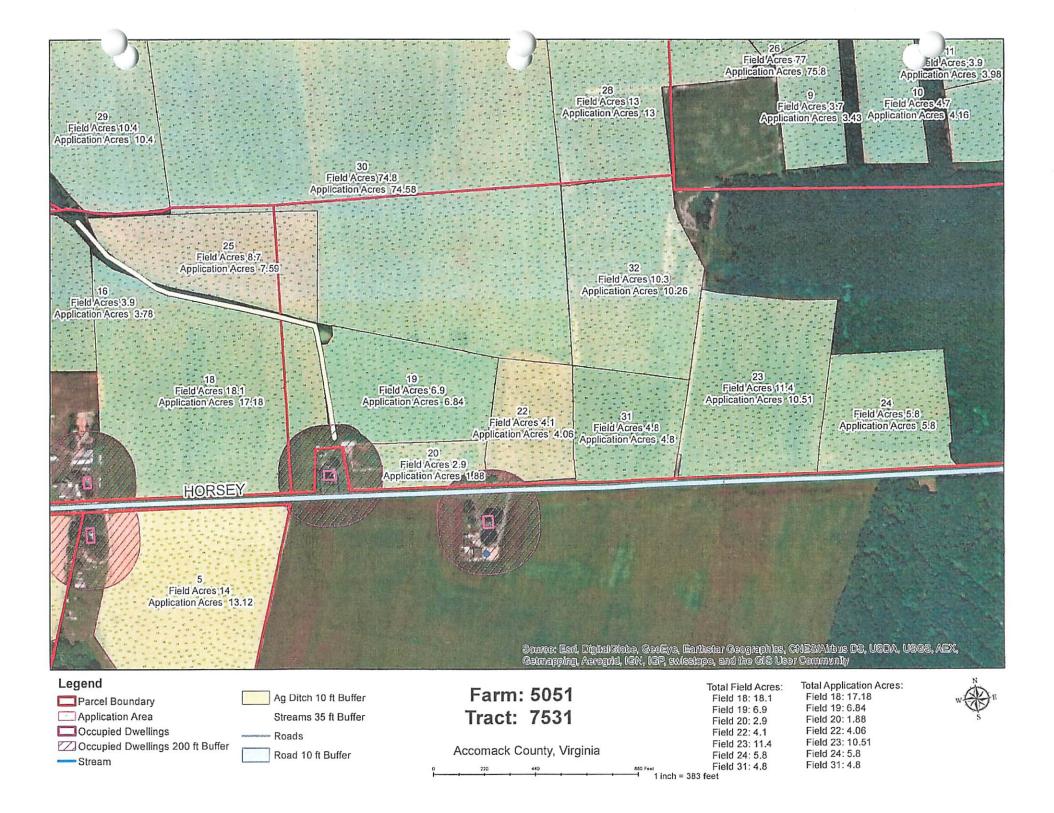
Field 12: 6 Field 5: 14.3 Field 13: 41.6 Field 15: 2.7 Field 9: 3.7 Field 10: 4.7 Field 26: 77 Field 11: 3.9 Field 27: 5.8

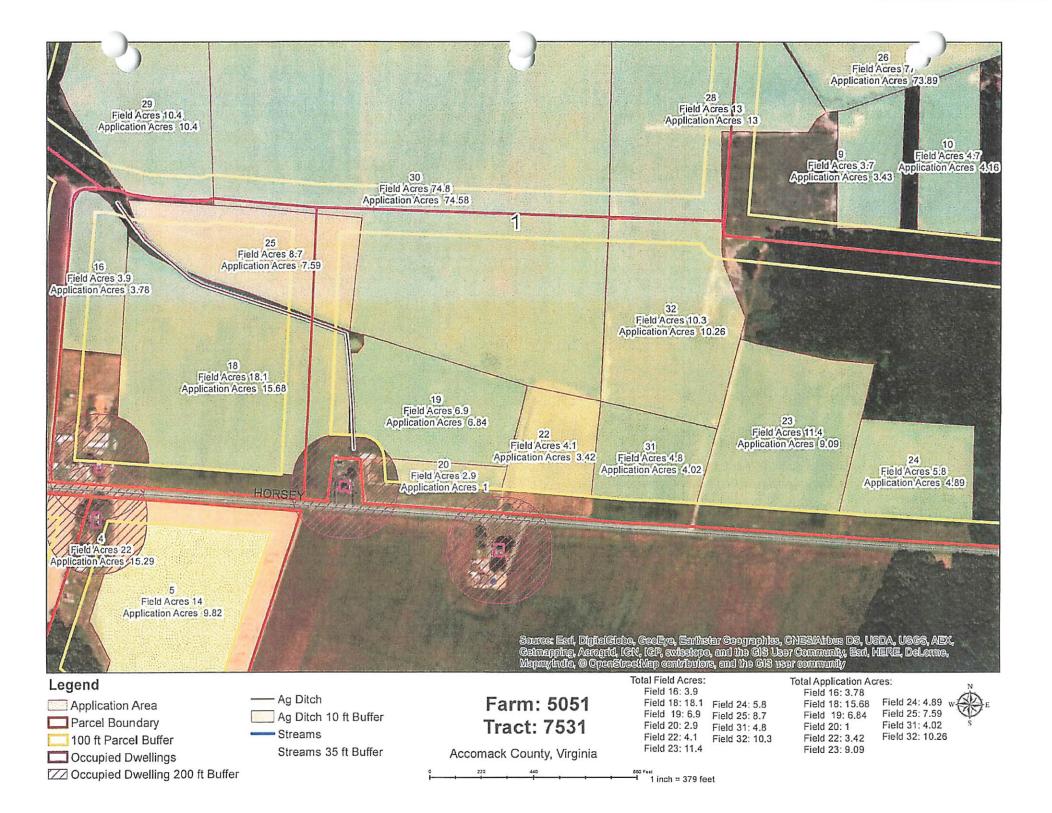
1 inch = 421 feet

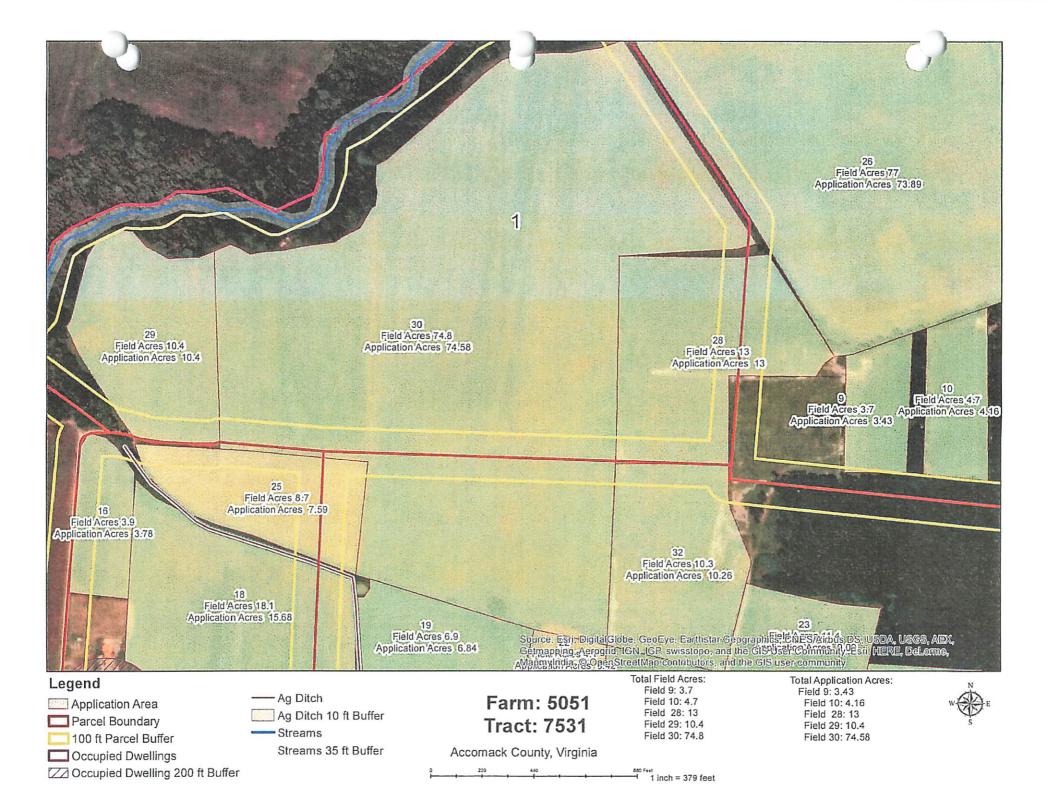
Field 12: 5.24 Field 4: 5.12 Field 13: 40.14 Field 5: 12.87 Field 15: 2.44 Field 9: 3.43 Field 10: 4.16 Field 26: 75.8 Field 27: 5.7 Field 11: 3.98











Accomack County, Virginia

Legend

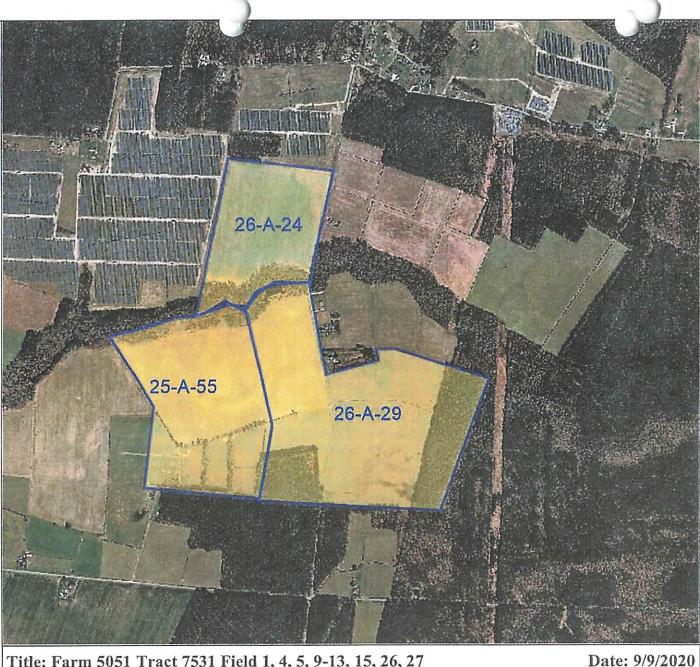
Tax Parcel 25-A-55, 26-A-24 26-A-29

Operator: Tommy Davis

Owner: Beverly Fletcher

Map Printed from AccoMap http://accomack.mapsdirect.net/

Feet				
0	500	1000	1500	2000



Title: Farm 5051 Tract 7531 Field 1, 4, 5, 9-13, 15, 26, 27

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and Accomack County is not responsible for its accuracy or how current it may be.

Accomack County, Virginia

Legend

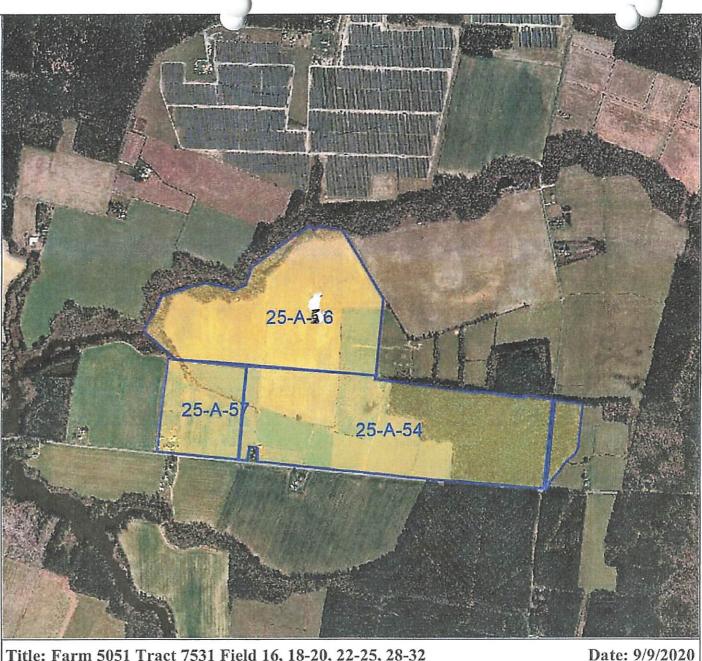
Fax Parcels 25-A-54, 25-A-57 25-A**5** 6

Operator: Tommy Davis

Owner: Beverly Fletcher

Map Printed from AccoMap http://accomack.mapsdirect.net/

	Feet			
0	500	1000	1500	2000



Title: Farm 5051 Tract 7531 Field 16, 18-20, 22-25, 28-32

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records information, and data obtained from various sources, and Accomack County is not responsible for its accuracy or how current it may be.

VPA PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

THE THE PROPERTY AND BIOSOLIDS
PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS
A. This land application agreement is made on to 19 2010 between Period of P
The Landowner is the owner of record of the real property located in Accordance Court Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county
Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges
Tax Faice ID
25-A-60 115225-A-58A (53) 26-14-24 (153) 25-A-58 (26-14-32) 5-14-32
03-17-30B (26-17-29 1-32) 1-17-4-47 21-11
1570 25-A-58 17531 25-A-55 25-A-57 (7534) 25-A-14 25-1-15
El Additional parcets 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.
within 38 months of the latest date of blosolids 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.
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 became application.
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.
☐ Yes ☐ No
Printed name Na BOVER Ly Flotck AR Malling Address 27324 Itary Rd Landowner Signature
Title Dak Hall Ut 23416 AD Dal 1
*MI certify that I have authority to sign for the land on the land of the land
* I certify that I have authority to sign for the landowner as indicated by my title as Executor, Trustee or Power of attorney, etc. The proposition of the corporation, partnership, proprietorship, LLC,
municipality, state or federal agency, etc.
Permittee:
manner authorized by the VPA Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the 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 egrees to polify the Landaus and accordance with \$10.1-104.2 of the Code of Virginia.
Printed name
Malling Address P.O. Box 8 Permittee-Authorized Representative Permittee-Authorized Representative Title Permittee-Authorized Representative Permittee-Authorized Representative Permittee-Authorized Representative Signature Permittee-Authorized Representative Permittee-Author
Title Complex Manager Phone No. 257-824-3471 La 1-
101-847-3471

Rev 6/11/2018b

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

Permittee:	Tyson Foods	County or City:	Accomack	Carnot.
Landowner:	Beverly	Fletcher	1	courre

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:

 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

- Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- 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:

- 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;
- 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 blosolids application to pasture or hayland sites:

- 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;
- 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;
- 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 10/29/20
Date

Rev 6/11/2018b

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

Tura Danie

Rev 6/11/2018b

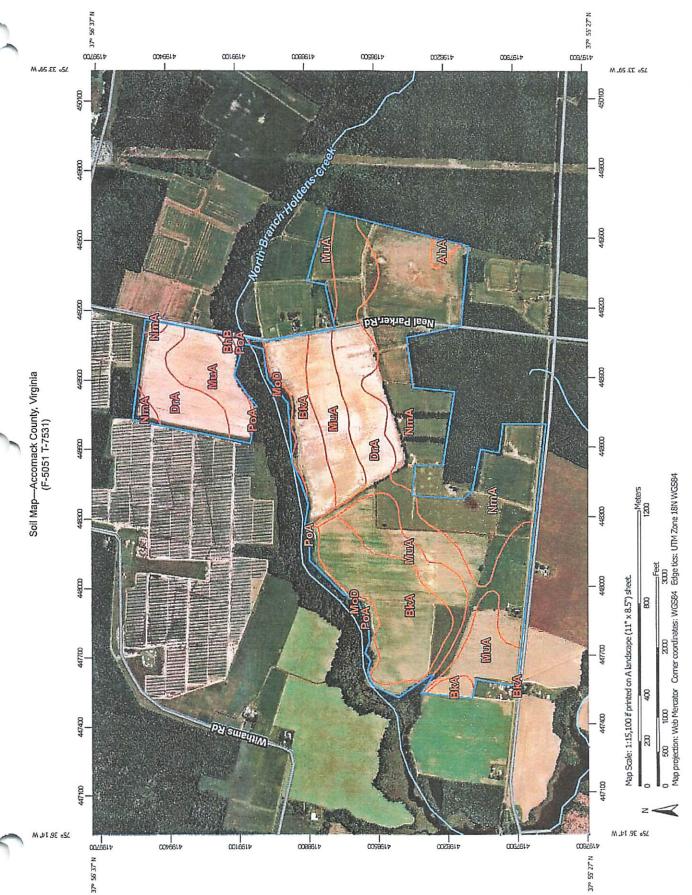
Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive blosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement - Biosolids and Industrial Residuals form with original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Submission of completed Form D VPA Permit Application Workbook, Tabs 14.a and/or 14.b, supersedes the need to complete this Landowner Coordination Form.

County or City: Accomuck	Parel
Please Print	
Tax Parcel ID(s)	(Landowner signatures are not required on this page
	Landowner(s)
25-A-60	Beverly Fletcher
25-A-43	· · · · · · · · · · · · · · · · · · ·
25-A-58	
25-A-58A	
25-A-58B	
25-4-55	
26-4-24	
26-14-29	
25-A-54	
25-A-57	
25-A-5.6	
25-14-47	
25-14-64	
26-14-32	
26-A 33	

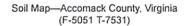
Page ___of___





Natural Resources Conservation Service

Web Soil Survey National Cooperative Soil Survey



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

0

Landfill Lava Flow



Marsh or swamp



Mine or Quarry

Miscellaneous Water

Perennial Water



Rock Outcrop



Saline Spot

Sandy Spot

Severely Eroded Spot



Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at

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: Accomack County, Virginia Survey Area Data: Version 16, Jun 3, 2020

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

Date(s) aerial images were photographed: Dec 31, 2009—Sep 24, 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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AhA	Arapahoe mucky loam, 0 to 2 percent slopes, rarely flooded	2.4	0.6%
BhB	Bojac loamy sand, 2 to 6 percent slopes	0.9	0.2%
BkA	Bojac sandy loam, 0 to 2 percent slopes	77.7	18.6%
DrA	Dragston fine sandy loam, 0 to 2 percent slopes	103.1	24.7%
MoD	Molena loamy sand, 6 to 35 percent slopes	11.3	2.7%
MuA	Munden sandy loam, 0 to 2 percent slopes	94.8	22.7%
NmA	Nimmo sandy loam, 0 to 2 percent slopes	125.2	30.0%
PoA	Polawana mucky sandy loam, 0 to 2 percent slopes, frequently flooded	1.7	0.4%
Totals for Area of Interest		417.1	100.0%

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An undifferentiated group is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Report-Map Unit Description

Accomack County, Virginia

AmA—Arapahoe-Melfa complex, 0 to 2 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 3yvr



Significant of the popular of the same of

Elevation: 0 to 20 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Arapahoe and similar soils: 45 percent Melfa and similar soils: 40 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Arapahoe

Setting

Landform: Terraces

Down-slope shape: Convex Across-slope shape: Convex Parent material: Marine sediments

Typical profile

H1 - 0 to 13 inches: mucky loam H2 - 13 to 34 inches: loam H3 - 34 to 85 inches: sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 0 to 12 inches Frequency of flooding: FrequentNone

Frequency of ponding: None

Available water capacity: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6w

Hydrologic Soil Group: A/D Hydric soil rating: Yes

Description of Melfa

Setting

Landform: Salt marshes
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Marine sediments

Typical profile

Oe - 0 to 6 inches: mucky peat H2 - 6 to 13 inches: sandy loam



H3 - 13 to 50 inches: sandy loam H4 - 50 to 85 inches: coarse sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 0 inches Frequency of flooding: Frequent Frequency of ponding: None

Maximum salinity: Slightly saline to strongly saline (7.0 to 30.0

mmhos/cm)

Sodium adsorption ratio, maximum: 90.0 Available water capacity: High (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8w

Hydrologic Soil Group: A/D Hydric soil rating: Yes

BhB-Bojac loamy sand, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: 3yvv Elevation: 10 to 250 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Bojac and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bojac

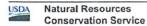
Setting

Landform: Terraces

Down-slope shape: Convex Across-slope shape: Convex Parent material: Marine sediments

Typical profile

H1 - 0 to 7 inches: loamy sand H2 - 7 to 40 inches: loam H3 - 40 to 85 inches: sand



Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 48 to 72 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: A Hydric soil rating: No

BkA-Bojac sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yvw

Elevation: 10 to 250 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Bojac and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Bojac

Setting

Landform: Terraces

Down-slope shape: Convex Across-slope shape: Convex Parent material: Marine sediments

Typical profile

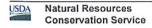
H1 - 0 to 7 inches: sandy loam H2 - 7 to 40 inches: loam H3 - 40 to 85 inches: sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible



Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 48 to 72 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Low (about 5.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 1

Hydrologic Soil Group: A Hydric soil rating: No

DrA—Dragston fine sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yw0

Elevation: 0 to 20 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Prime farmland if drained

Map Unit Composition

Dragston and similar soils: 90 percent

Minor components: 3 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dragston

Setting

Landform: Terraces

Down-slope shape: Convex Across-slope shape: Convex Parent material: Marine sediments

Typical profile

H1 - 0 to 6 inches: fine sandy loam

H2 - 6 to 40 inches: loam H3 - 40 to 85 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches Drainage class: Somewhat poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 12 to 30 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Moderate (about 6.2 inches)



Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 2w Hydrologic Soil Group: A/D

Hydric soil rating: No

Minor Components

Arapahoe

Percent of map unit: 3 percent Landform: Depressions Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: Yes

McA—Melfa-Hobucken complex, 0 to 1 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 3yw5

Elevation: 0 to 10 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Melfa and similar soils: 45 percent Hobucken and similar soils: 40 percent

Minor components: 1 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Melfa

Setting

Landform: Tidal flats

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Marine sediments

Typical profile

Oe - 0 to 6 inches: mucky peat H2 - 6 to 13 inches: sandy loam H3 - 13 to 50 inches: sandy loam H4 - 50 to 85 inches: coarse sand

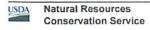
Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible



Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 0 inches Frequency of flooding: Frequent Frequency of ponding: None

Maximum salinity: Slightly saline to strongly saline (7.0 to 30.0

mmhos/cm)

Sodium adsorption ratio, maximum: 90.0 Available water capacity: High (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8w

Hydrologic Soil Group: A/D Hydric soil rating: Yes

Description of Hobucken

Setting

Landform: Tidal flats
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Marine sediments

Typical profile

H1 - 0 to 13 inches: loam H2 - 13 to 40 inches: loam H3 - 40 to 85 inches: sand

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 5.95 in/hr)

Depth to water table: About 0 inches Frequency of flooding: Frequent Frequency of ponding: Frequent

Maximum salinity: Strongly saline (16.0 to 70.0 mmhos/cm)

Sodium adsorption ratio, maximum: 50.0

Available water capacity: Moderate (about 7.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: A/D Hydric soil rating: Yes

Minor Components

Chincoteague

Percent of map unit: 1 percent Landform: Salt marshes



Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: Yes

MoD-Molena loamy sand, 6 to 35 percent slopes

Map Unit Setting

National map unit symbol: 3yw7

Elevation: 20 to 70 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Molena and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Molena

Setting

Landform: Terraces

Down-slope shape: Convex Across-slope shape: Convex Parent material: Marine sediments

Typical profile

H1 - 0 to 8 inches: loamy sand H2 - 8 to 45 inches: loamy sand H3 - 45 to 85 inches: sand

Properties and qualities

Slope: 6 to 35 percent

Depth to restrictive feature: More than 80 inches Drainage class: Somewhat excessively drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): High to

very high (1.98 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

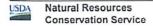
Available water capacity: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A Hydric soil rating: No



MuA—Munden sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yw8

Elevation: 0 to 150 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Munden and similar soils: 90 percent

Minor components: 6 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Munden

Setting

Landform: Terraces

Down-slope shape: Convex Across-slope shape: Convex Parent material: Marine sediments

Typical profile

H1 - 0 to 8 inches: sandy loam H2 - 8 to 40 inches: sandy loam H3 - 40 to 85 inches: loamy sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)

Depth to water table: About 18 to 30 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Moderate (about 6.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: B Hydric soil rating: No

Minor Components

Nimmo

Percent of map unit: 6 percent Landform: Depressions



Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: Yes

NmA-Nimmo sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yw9

Elevation: 10 to 100 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Prime farmland if drained

Map Unit Composition

Nimmo and similar soils: 85 percent Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Nimmo

Setting

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 6 inches: sandy loam H2 - 6 to 32 inches: loam H3 - 32 to 85 inches: sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: About 0 to 12 inches

Frequency of flooding: None Frequency of ponding: None

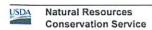
Available water capacity: Low (about 5.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: B/D Hydric soil rating: Yes



Minor Components

Polawana

Percent of map unit: 2 percent

Landform: Terraces
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: Yes

PoA—Polawana mucky sandy loam, 0 to 2 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 3ywb

Elevation: 10 to 100 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Polawana and similar soils: 95 percent

Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Polawana

Setting

Landform: Drainageways
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Marine sediments

Typical profile

H1 - 0 to 22 inches: mucky sandy loam H2 - 22 to 85 inches: loamy fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High to

very high (5.95 to 19.98 in/hr)

Depth to water table: About 0 inches

Frequency of flooding: FrequentNone

Frequency of ponding: Frequent

Available water capacity: Low (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified



Land capability classification (nonirrigated): 6w Hydrologic Soil Group: A/D Hydric soil rating: Yes

Minor Components

Nimmo

Percent of map unit: 2 percent Landform: Depressions Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: Yes

W-Water

Map Unit Setting

National map unit symbol: 3ywf
Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Water: 100 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

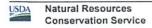
Description of Water

Setting

Down-slope shape: Linear Across-slope shape: Linear

Data Source Information

Soil Survey Area: Accomack County, Virginia Survey Area Data: Version 16, Jun 3, 2020





USDA

United States Department of Agriculture Farm Service Agency

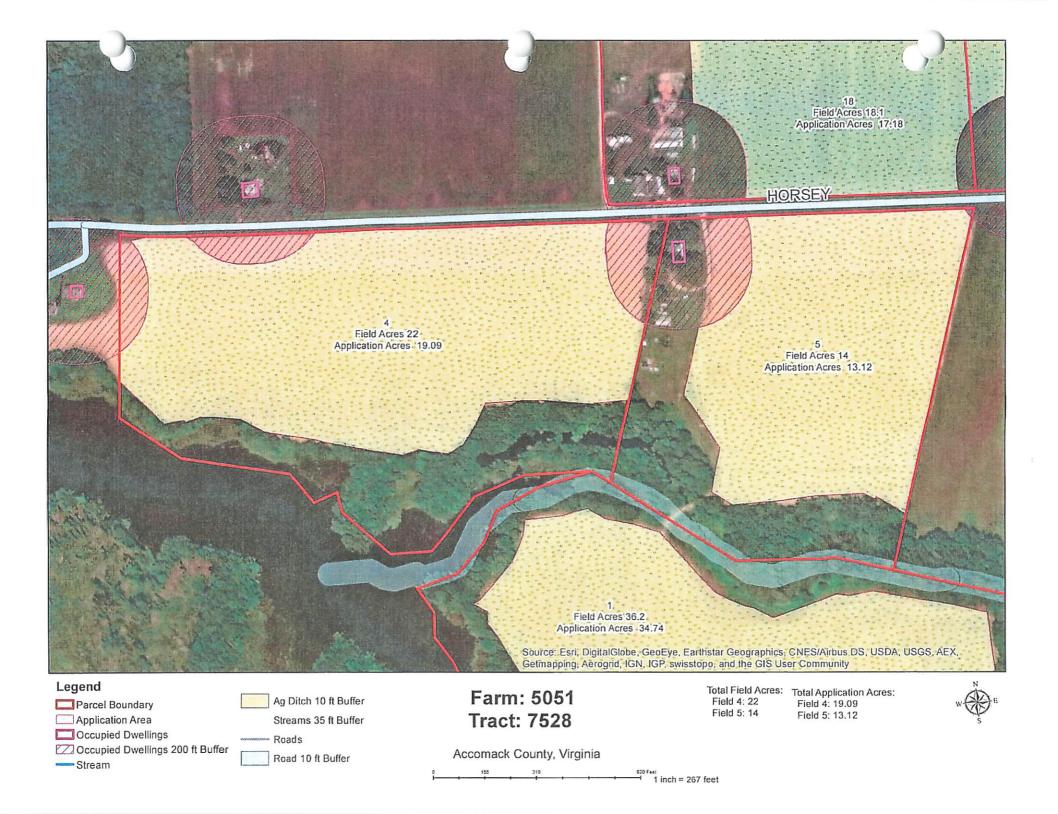
Farm: 5051 Tract: 7528 **Accomack County**

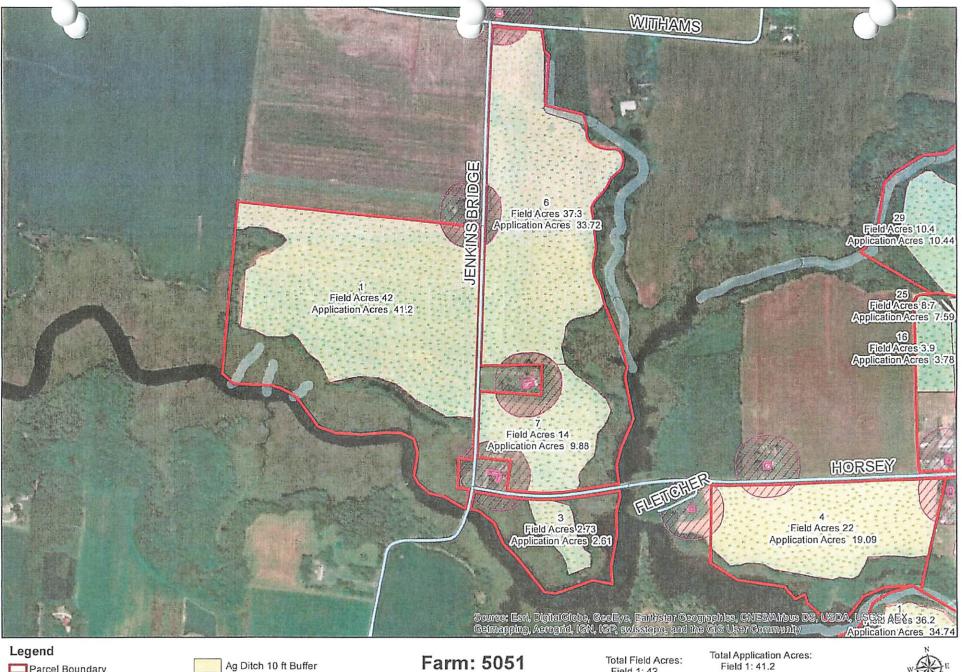
1:6,988

daimer: Wetland identifiers do not represent the size, shape or specific determination of the area.

Refer to your original determination (CPA-028 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

March 26, 2019





Parcel Boundary Application Area

Cocupied Dwellings

Cocupied Dwellings 200 ft Buffer

Stream

Ag Ditch 10 ft Buffer Streams 35 ft Buffer

Roads

Road 10 ft Buffer

Farm: 5051 Tract: 7528, 7534

Accomack County, Virginia

1,440 Feet 1 inch = 627 feet

Field 3: 2.61

Field 1: 42

Field 3: 2,73

Field 6: 37.3

Field 7: 14

Field 6: 33.72 Field 7: 9.88



Accomack County, Virginia

Legend

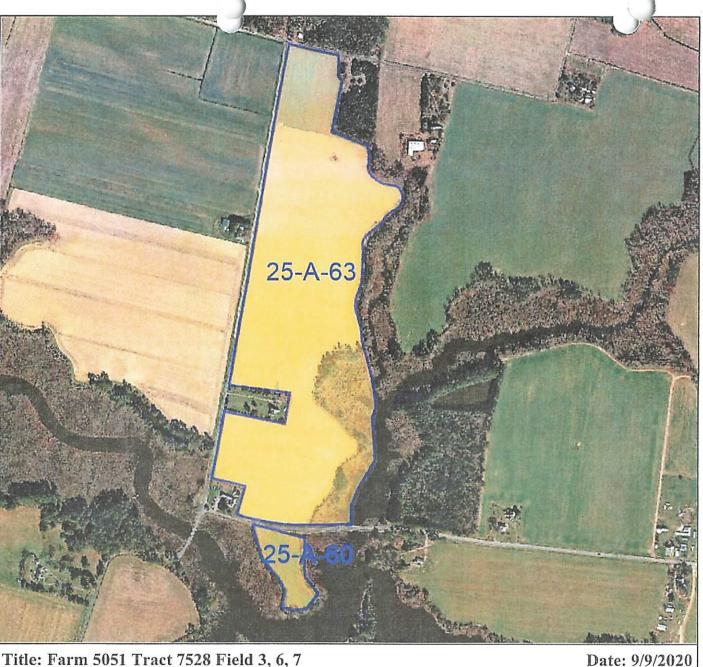
Tax Parcel 25-A-60 25-A-63

Operator: Tommy Davis

Owner: Beverly Fletcher

Map Printed from AccoMap http://accomack.mapsdirect.net/

200 400 600



Title: Farm 5051 Tract 7528 Field 3, 6, 7

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and Accomack County is not responsible for its accuracy or how current it may be.

Accomack County, Virginia

Legend

Tax Parcels 25-A-58B

Owner: Tommy Davis

25-A-58A

Owner: Beverly Fletcher

Map Printed from AccoMap http://accomack.mapsdirect.net/





Title: Farm 5051 Tract 7528 Field 4 and 5

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and Accomack County is not responsible for its accuracy or how current it may be.

VPA PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

A. This land application agreement is made on Charles between Thomas Decugreferred to here as "Landowner", and "Left The Landowner in the event of a sale of one or more parcels, until ownership of all parcels that are retained by the individual parcels identified in this agreement changes, those parcels for womership of apprecise that are retained by the individual parcels identified in this agreement changes, those parcels for womership 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 **RECORD Wirginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A. Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial studges Tax Parcel ID Tax Parcel I		PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS						
The Landowner is the owner of record of the real property located in htteract Landowner; The Landowner is the owner of record of the real property located in htteract Landowner; side agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county Table 1.: Parcel ID Tax		A. This land application agninere as "Landowner", and in effect until it is terminated Landowner in the event of a individual parcels identified.	t in writing by either party or, is sale of one or more parcels,	between between between between between to here as the with respect to those until ownership of a	Thomas ie "Permittee". e parcels that ar	Day referred to Day referred to Day referred to Day referred to Day referred by the		
Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial studges Tax Parcel ID Tax P			and the state of t					
Tax Parcel ID Paccel Tax Parcel ID		agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.						
Tax Parcel ID Paccel Tax Parcel ID The Parcel ID Tax Parcel ID		Table 1.: Parcels autho	rized to receive biosolids, v	water treatment re	siduals or othe	er industrial sludges		
Additional parcels containing Land Application Siles are identified on Supplement A (check if applicable) Check one: The Landowner is the sole owner of the properties identified herein. In the event that the Landowner sells or transfers all or part 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 transferse 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 of mendiately 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, before, during or after land application of permitted residuals for line purpose of determining compliance with regulatory requirements application of permitted residuals for line purpose of determining compliance with regulatory requirements application of permitted residuals for line with regulatory requirements application of permitted residuals for line with regulatory requirements application of permitted residuals for line with regulatory and provide side to such application. Printed name **All Dirac **In **In **In **In **In **In **In **I		- CAT GIVET ID	Tax Parcel ID	Tax Parce	וח			
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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. 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 transferse 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 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 Biosolids Water treatment residuals Printed name Mailing Address No Phone No. Tr. Stay Sta. Phone No. Tr. Stay Sta. Phone No. Tr. Stay Sta. Title Court of the Case of Power of attorney, etc. Mailing Address of the Case of Power of attorney, etc. Mailing Address of the Case of Power of attorney, etc. Permittee: The Act of the Case of Power of attorney, etc. Permittee agrees to notify the Landowner or the Landowner's land. Notice shall include the source of residuals to be applied. Permittee agrees to notify the Landowner or the Landowner's land. Notice shall include the source of residuals to be applied. Permittee amen		12-A-17	7, 30,2					
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Printed name Printed name Print	_	☐ Yes ☑ No ☐ Yes	Food	processing waste	Other industri	al sludges		
Phone No. 757 FLY 316; ** I certify that I have authority to sign for the landowner as indicated by my title as Executor, Trustee or Power of attorney, etc. ** I certify that I am a responsible official [or officer] authorized to act on behalf of the corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc. Permittee: The Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the 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. Printed name Mailing Address P.o. Box 8 Permittee-Authorized Representative Signature Notice Authorized Representative Signature			Malling Address	11 , 21	·			
Phone No. 757 \$2473(L) *** I certify that I have authority to sign for the landowner as indicated by my title as Executor, Trustee or Power of attorney, etc. certify that I am a responsible official [or officer] authorized to act on behalf of the corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc. Permittee:						ature		
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Permittee: The Cood S, 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. Printed name Mailing Address P.o. 80x 8 Permittee-Authorized Representative Signature Signature		I certify that I am a responsible official [or officer] authorized to act on behalf of the corporation, partnership, proprietorship. LLC.						
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Title'Canalay Manager 1 (1) 11 (2) 17 (2)	L	Kevin Taylor	Temporanceville	VA 22MU2	Signature	ed Representative		
mone No. 257-924- 21121 de 1-d/m		Title Complex Manager	Phone No. 757-	924-2454	de 1	-An		

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

Permittee:	yson For	ods	County or City:	Accomacic
Landowner:	Thomas	Davis or	Cherron !	Davis

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 blosolids 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:

 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

- Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- 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:

- 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 blosolids 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;
- 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;
- 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 16/29/22

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

Rev 6/11/2018b

Landowner Coordination Form

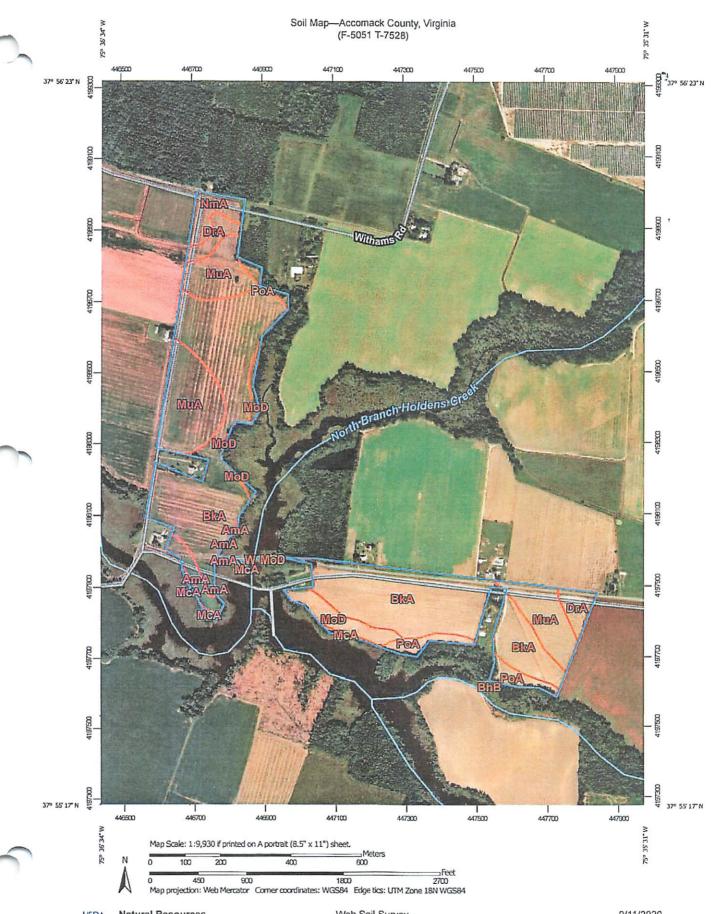
This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement - Biosolids and Industrial Residuals form with original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

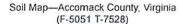
Submission of completed Form D VPA Permit Application Workbook, Tabs 14.a and/or 14.b, supersedes the need to complete this Landowner Coordination Form.

Permittee: Tyson Food County or City: Arromack	5			
County or City: A comuck	County			
Please Print		(Landowner signatur	es are not required on	this nage
Tax Parcel ID(s)		Landowner(s)		ins page
12-A-42	Thomas	Danie	Ch on -	Λ.
12-17	11	Daves or	CICEVION 11	LEU, J
12-A-17 25-A-58B	١			
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Page ___of__





MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

(0)

Blowout Borrow Pit

Clay Spot

Closed Depression Gravel Pit

Gravelly Spot

Landfill Lava Flow



Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Slide or Slip

Sinkhole

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

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: Accomack County, Virginia Survey Area Data: Version 16, Jun 3, 2020

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

Date(s) aerial images were photographed: Dec 31, 2009—Sep 24, 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.



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	
AmA	Arapahoe-Melfa complex, 0 to 2 percent slopes, frequently flooded	2.4	2.4%	
BhB	Bojac loamy sand, 2 to 6 percent slopes	0.0	0.0%	
BkA	Bojac sandy loam, 0 to 2 percent slopes	57.0	56.8%	
DrA	Dragston fine sandy loam, 0 to 2 percent slopes	4.3	4.3%	
McA	Melfa-Hobucken complex, 0 to 1 percent slopes, frequently flooded	1,1	1.1%	
MoD	Molena loamy sand, 6 to 35 percent slopes	5.0	5.0%	
MuA	Munden sandy loam, 0 to 2 percent slopes	22.5	22.4%	
NmA	Nimmo sandy loam, 0 to 2 percent slopes	3.2	3.2%	
PoA	Polawana mucky sandy loam, 0 to 2 percent slopes, frequently flooded	4.7	4.7%	
W	Water	0.0	0.0%	
Totals for Area of Interest		100.2	100.0%	

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions. especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An undifferentiated group is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description

Accomack County, Virginia

AmA—Arapahoe-Melfa complex, 0 to 2 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 3yvr



Elevation: 0 to 20 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Arapahoe and similar soils: 45 percent

Melfa and similar soils: 40 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Arapahoe

Setting

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 13 inches: mucky loam H2 - 13 to 34 inches: loam H3 - 34 to 85 inches: sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 0 to 12 inches Frequency of flooding: FrequentNone

Frequency of ponding: None

Available water capacity: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6w Hydrologic Soil Group: A/D Hydric soil rating: Yes

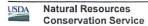
Description of Melfa

Setting

Landform: Salt marshes
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Marine sediments

Typical profile

Oe - 0 to 6 inches: mucky peat H2 - 6 to 13 inches: sandy loam



H3 - 13 to 50 inches: sandy loam H4 - 50 to 85 inches: coarse sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 0 inches Frequency of flooding: Frequent Frequency of ponding: None

Maximum salinity: Slightly saline to strongly saline (7.0 to 30.0

mmhos/cm)

Sodium adsorption ratio, maximum: 90.0 Available water capacity: High (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8w

Hydrologic Soil Group: A/D Hydric soil rating: Yes

BhB—Bojac loamy sand, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: 3yvv Elevation: 10 to 250 feet

Mean annual precipitation: 25 to 60 inches

Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Bojac and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Bojac

Setting

Landform: Terraces

Down-slope shape: Convex Across-slope shape: Convex Parent material: Marine sediments

Typical profile

H1 - 0 to 7 inches: loamy sand H2 - 7 to 40 inches: loam H3 - 40 to 85 inches: sand



Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 48 to 72 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: A Hydric soil rating: No

BkA-Bojac sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yvw

Elevation: 10 to 250 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Bojac and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Bojac

Setting

Landform: Terraces

Down-slope shape: Convex Across-slope shape: Convex Parent material: Marine sediments

Typical profile

H1 - 0 to 7 inches: sandy loam H2 - 7 to 40 inches: loam H3 - 40 to 85 inches: sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible



Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 48 to 72 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Low (about 5.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 1

Hydrologic Soil Group: A Hydric soil rating: No

DrA—Dragston fine sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yw0

Elevation: 0 to 20 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Prime farmland if drained

Map Unit Composition

Dragston and similar soils: 90 percent

Minor components: 3 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Dragston

Setting

Landform: Terraces

Down-slope shape: Convex Across-slope shape: Convex Parent material: Marine sediments

Typical profile

H1 - 0 to 6 inches: fine sandy loam

H2 - 6 to 40 inches: loam
H3 - 40 to 85 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches Drainage class: Somewhat poorly drained

Runoff class: Negligible

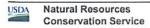
Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 12 to 30 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Moderate (about 6.2 inches)



Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: A/D Hydric soil rating: No

Minor Components

Arapahoe

Percent of map unit: 3 percent Landform: Depressions Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: Yes

McA—Melfa-Hobucken complex, 0 to 1 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 3yw5

Elevation: 0 to 10 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Melfa and similar soils: 45 percent Hobucken and similar soils: 40 percent

Minor components: 1 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Melfa

Setting

Landform: Tidal flats
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Marine sediments

Typical profile

Oe - 0 to 6 inches: mucky peat H2 - 6 to 13 inches: sandy loam H3 - 13 to 50 inches: sandy loam H4 - 50 to 85 inches: coarse sand

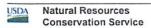
Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible



Capacity of the most limiting layer to transmit water (Ksat): High

(1.98 to 5.95 in/hr)

Depth to water table: About 0 inches Frequency of flooding: Frequent Frequency of ponding: None

Maximum salinity: Slightly saline to strongly saline (7.0 to 30.0

mmhos/cm)

Sodium adsorption ratio, maximum: 90.0 Available water capacity: High (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8w

Hydrologic Soil Group: A/D Hydric soil rating: Yes

Description of Hobucken

Setting

Landform: Tidal flats
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Marine sediments

Typical profile

H1 - 0 to 13 inches: loam H2 - 13 to 40 inches: loam H3 - 40 to 85 inches: sand

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 5.95 in/hr)

Depth to water table: About 0 inches Frequency of flooding: Frequent Frequency of ponding: Frequent

Maximum salinity: Strongly saline (16.0 to 70.0 mmhos/cm)

Sodium adsorption ratio, maximum: 50.0

Available water capacity: Moderate (about 7.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

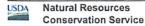
Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: A/D Hydric soil rating: Yes

Minor Components

Chincoteague

Percent of map unit: 1 percent Landform: Salt marshes



Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: Yes

MoD-Molena loamy sand, 6 to 35 percent slopes

Map Unit Setting

National map unit symbol: 3yw7

Elevation: 20 to 70 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Molena and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Molena

Setting

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 8 inches: loamy sand H2 - 8 to 45 inches: loamy sand H3 - 45 to 85 inches: sand

Properties and qualities

Slope: 6 to 35 percent

Depth to restrictive feature: More than 80 inches Drainage class: Somewhat excessively drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): High to

very high (1.98 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A Hydric soil rating: No



MuA—Munden sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yw8

Elevation: 0 to 150 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Munden and similar soils: 90 percent

Minor components: 6 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Munden

Setting

Landform: Terraces

Down-slope shape: Convex Across-slope shape: Convex Parent material: Marine sediments

Typical profile

H1 - 0 to 8 inches: sandy loam H2 - 8 to 40 inches: sandy loam H3 - 40 to 85 inches: loamy sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)

Depth to water table: About 18 to 30 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Moderate (about 6.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

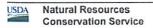
Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: B Hydric soil rating: No

Minor Components

Nimmo

Percent of map unit: 6 percent Landform: Depressions



Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: Yes

NmA-Nimmo sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yw9

Elevation: 10 to 100 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Prime farmland if drained

Map Unit Composition

Nimmo and similar soils: 85 percent Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Nimmo

Setting

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 6 inches: sandy loam H2 - 6 to 32 inches: loam H3 - 32 to 85 inches: sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: About 0 to 12 inches

Frequency of flooding: None Frequency of ponding: None

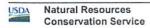
Available water capacity: Low (about 5.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: B/D Hydric soil rating: Yes



Minor Components

Polawana

Percent of map unit: 2 percent

Landform: Terraces

Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: Yes

PoA—Polawana mucky sandy loam, 0 to 2 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 3ywb

Elevation: 10 to 100 feet

Mean annual precipitation: 25 to 60 inches Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Polawana and similar soils: 95 percent

Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Polawana

Setting

Landform: Drainageways
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Marine sediments

Typical profile

H1 - 0 to 22 inches: mucky sandy loam H2 - 22 to 85 inches: loamy fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High to

very high (5.95 to 19.98 in/hr)

Depth to water table: About 0 inches

Frequency of flooding: FrequentNone

Frequency of ponding: Frequent

Available water capacity: Low (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified



Land capability classification (nonirrigated): 6w Hydrologic Soil Group: A/D Hydric soil rating: Yes

Minor Components

Nimmo

Percent of map unit: 2 percent Landform: Depressions Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: Yes

W-Water

Map Unit Setting

National map unit symbol: 3ywf Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Water: 100 percent
Estimates are based on observations, descriptions, and transects of
the mapunit.

Description of Water

Setting

Down-slope shape: Linear Across-slope shape: Linear

Data Source Information

Soil Survey Area: Accomack County, Virginia Survey Area Data: Version 16, Jun 3, 2020

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