Farm Acreage Summary

Operator: Hutchinson Farms LLC

Location: Accomack

					Acr	eage	Environmentally
Landowner	Site	Latitude	Longitude	Field	Total	Usable	Sensitive Soils
David Hutchinson Jeffrey Hutchinson	F-5013 T-5842	N37° 37' 90"	W75° 43' 91"	2, 3	35.6	33.24	YES
David Hutchinson Jeffrey Hutchinson	F-5013 T-76346	N37° 38' 44"	W75° 44' 72"	1, 4, 5	54.7	46.12	YES
David Hutchinson Jeffrey Hutchinson	F-5013 T-76347	N37° 38' 29"	W75° 44' 89"	7	18.1	16.27	YES
Raenelle Humbles Zapata	F-5036 T-77989	N37° 41' 28"	W75° 40' 88"	2	13.5	9.77	YES
Raenelle Humbles Zapata	F-5036 T-77990	N37° 41' 29"	W75° 40' 98"	1	3.9	2.47	YES
Raenelle Humbles Zapata	F-5036 T-5203	N37° 42' 86"	W75° 42' 73"	1-3	17.3	16.88	YES

Raenelle Humbles Zapata	F-5036 T-5235	N37° 42' 77"	W75° 41' 87"	1, 2	39.3	28.64	YES
William Tyler	F-2390 T-4816	N37° 36' 83"	W75° 47' 04"	1, 2	41.7	39.31	YES
Little Tree Land LLC	F-4691 T-77531	N37° 34' 12"	W75° 54' 10"	3	64.8	60.59	YES

Total 288.9 253.29





United States Department of Agriculture Farm Service Agency

Farm: 5013 Tract: 5842 **Accomack County**

1:6,000

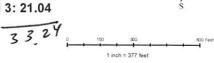
March 25, 2019

Disclaimer: 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.





Farm: 5013 Tract: 5842 Total Field Acres: Field 2: 13.4 Field 3: 22.2 Total Application Acres: Field 2: 12.2 Field 3: 21.04





USDA

United States Department of Agriculture Farm Service Agency

Farm: 5013 Tract: 76346 **Accomack County**

1:6,000

March 25, 2019

Disclaimer: 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.



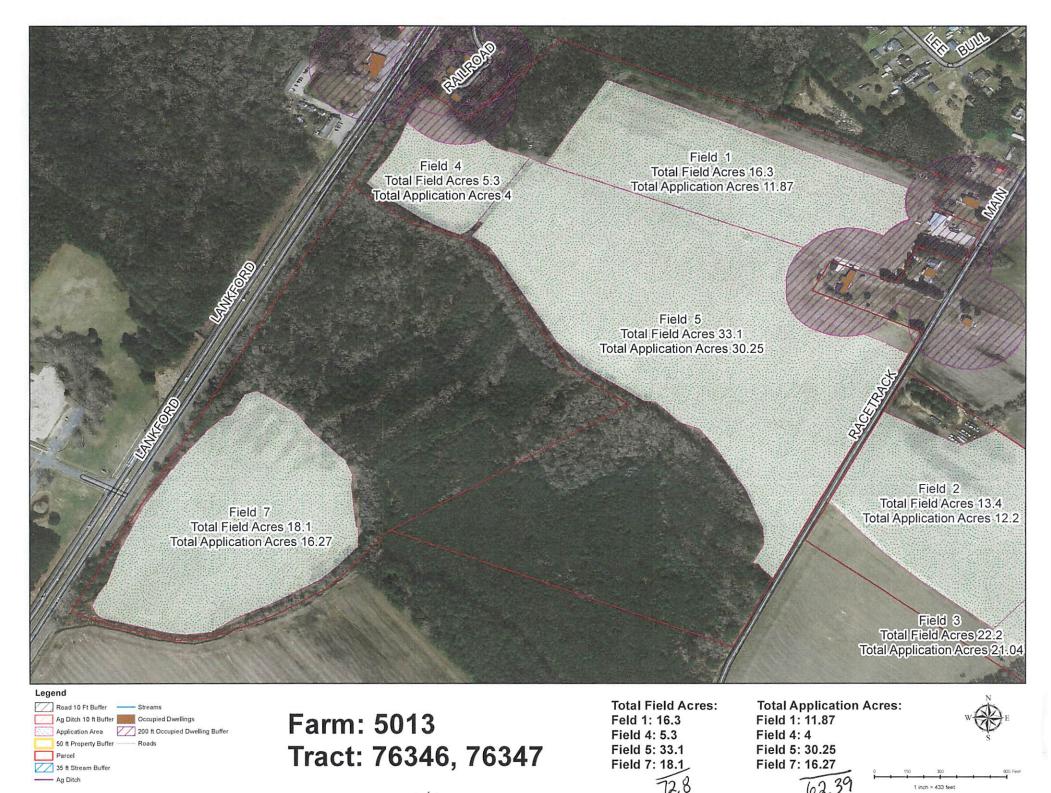


United States Department of Agriculture Farm Service Agency

Farm: 5013 Tract: 76347 Accomack County

March 25, 2019

Disclaimer: 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.



Autchinson

Accomack County, Virginia

Legend

Tax Map #102-A-46

Owner: David Hutchinson and Jeffrey Hutchinson

Operator: David Hutchinson

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





Title: F-5013 T-5842 Fields 2, 3

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

egend

Tax Map #102-A-25

Owner: David Hutchinson and Jeffrey Hutchinson

Operator: David Hutchinson



Map Printed from AccoMap http://accomack.mapsdirect.neu/ Feet

Title: F-5013 T-76346 Fields 4, 5

	800	
	009	
Feet	400	
	200	

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.

Date: 10/29/2020

Accomack County, Virginia

Legend

Tax Map #102-A-31

Owner: David Hutchinson and Jeffrey

Hutchinson

Operator: David Hutchinson

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





Title: F-5013 T-76347 Fields 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.

VPA PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

individual parcels identified i longer be authorized to rece	rement is made on 1 yson Foods , n in writing by either party or, sale of one or more parcels,	between eferred to here as the with respect to thos until ownership of a	ne "Permittee", e parcels that all parcels cha	TRIAL RESIDUALS Literary Telerred to Flutcher This agreement remains are retained by the inges. If ownership of has changed will no
The Landowner is the owner agricultural, slivicultural or re documentation identifying ow	of record of the real propert clamation sites identified be vners, attached as Exhibit A.	y located in ow in Table 1 and k	V dentified on th	
Table 1.: Parcels author	rized to receive biosolids,	water treatment re	siduals or of	her industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parce	NAME AND ADDRESS OF TAXABLE PARTY.	
12 102-1-46		1 Ida r Alice	110	Tax Parcel ID
102-14-25				
102-14-31				
Additional parcels containing Land	Application Sites are identified on S	lander 1211 in		
Notify the Permittee of The Landowner has no other notify the Permittee immediate application or any part of this affine Landowner hereby grants. The Landowner hereby grants.	or transferee of the applicable roperty transfer; and if the sale within two weeks the agreements for land applicable if conditions change such agreement becomes invalidations.	e public access and following property tra- tion on the fields ide that the fields are roor the information had	all: I crop manage ansfer, entified herein, to longer avail erein containe	The Landowner will able to the Permittee for d becomes incorrect.
inspections on the land identification purpose of determining complications and the land identification of the land identificatio	ed above, before, during or ance with regulatory require salment residuals Food XYs	after land application ments applicable to processing wasters I No	n of permitted such application of the control of t	or DEQ staff to conduct
inspections on the land identification purpose of determining complications of the land identification	ed above, before, during or ance with regulatory require estment residuals No Malling Address Mel Phone No. 757. sign for the landowner as indicate	after land application ments applicated to processing wasters INO Pr	other indu Carlo	or DEQ staff to conduct residuals for the ion. strial sludges DINO ignature Hart Buttlen
inspections on the land identification purpose of determining complications of determining complications of the land identification of the land identificati	ed above, before, during or ance with regulatory require estment residuals No Malling Address Phone No. 757. sign for the landowner as indicate official [or officer] authorized to a return the company of the comp	after land application ments applicable to processing waste is INo Po. Boy345 FA, VA 234/0 TIO - 4/14/ and by my title as Execute to no behalf of the corpust in accordance with \$1 in accordance with \$1 in accordance of the property.	Other indu Other	or DEQ staff to conduct residuals for the ion. strial sludges D(No ignature How the ion in the ine nutrient management is code of Virginia.

Rev 6/11/2018b

Page 1 of 2

VIRGINIA POLLUTION ABATEMENT PERMIT	APPLICATION D	DADT D MILANI	
AGREEMENT	ALLICATION, P	-ARI D-VI LANI	APPLICATION

Permittee: _T		County or City	: Accomack
Landowner:	Savid Hutchinas + J	effrey Hu	tchinser

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 blosofids 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

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

b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols:

c. Turf grown on fand 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 DEO.

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:

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.
- 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

Date

Rev 6/11/2018b

Page 2 of 2

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

Landowner Coordination Form

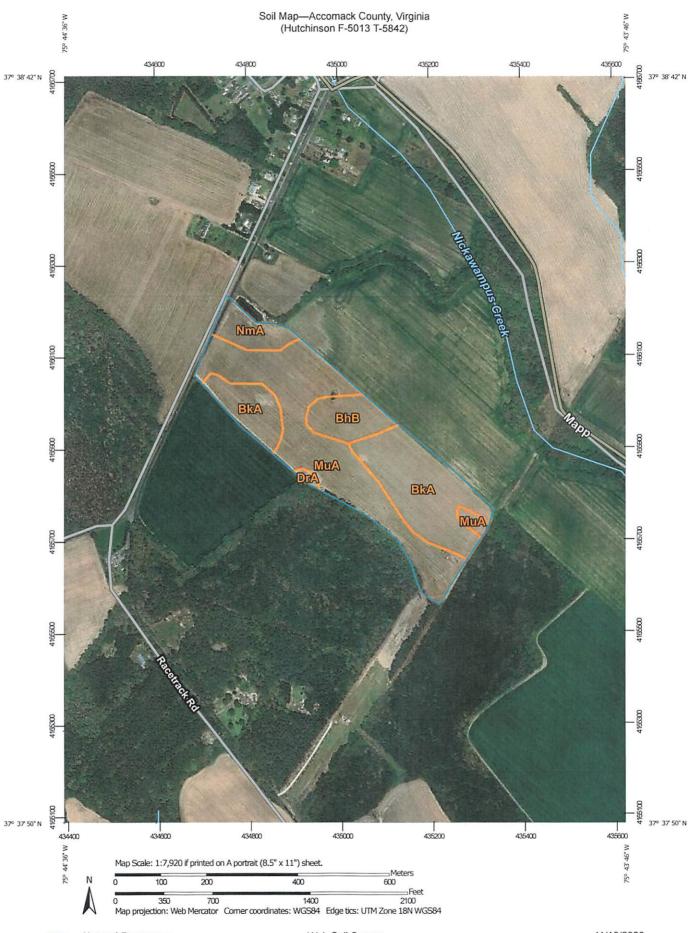
This form is used by the Permittee to identify properties (tax percels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement - Biosolids and Industrial Residuals form with original signature must be attached 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 end/or 14.b, supersedes the need to complete this Landowner Coordination Form.

Permittee: Tyson Foods	
County or City: ACCOMACK C	New LV
Please Print	1
Tax Parcel ID(s)	(Landowner signatures are not required on this page
	Landowner(s)
102-4-46	
102-4-35 162-4-31	Dord Hutchinson + Jeffrey Hutchinson
162-4-31	Need do
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Page __of_

Rev 6/11/2016b



MAP LEGEND

Spoil Area

Stony Spot

Wet Spot

Other

Δ

Water Features

Transportation

+++

Background

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

US Routes

Major Roads

Local Roads

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



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

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
BhB	Bojac loamy sand, 2 to 6 percent slopes	3.6	9.2%
BkA	Bojac sandy loam, 0 to 2 percent slopes	14.2	36.0%
DrA	Dragston fine sandy loam, 0 to 2 percent slopes	0.3	0.7%
MuA	Munden sandy loam, 0 to 2 percent slopes	18.5	46.8%
NmA	Nimmo sandy loam, 0 to 2 percent slopes	2.8	7.2%
Totals for Area of Interest		39.4	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.

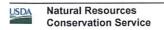
Report-Map Unit Description

Accomack County, Virginia

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

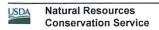
Map Unit Composition

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

MuA—Munden sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yw8

Elevation: 0 to 150 feet

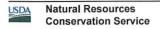
Mean annual precipitation: 25 to 60 inches
Mean annual air temperature: 57 to 61 degrees F

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

Data Source Information

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



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



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

Streams and Canals

Water Features

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
BkA	Bojac sandy loam, 0 to 2 percent slopes	5.8	10.8%
MuA	Munden sandy loam, 0 to 2 percent slopes	16.2	30.2%
NmA	Nimmo sandy loam, 0 to 2 percent slopes	31.7	59.0%
Totals for Area of Interest		53.7	100.0%

Map Unit Description (Brief, Generated)

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, provide information on the composition of map units and properties of their components.

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 and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

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

Report—Map Unit Description (Brief, Generated)

Accomack County, Virginia

Map Unit: BhB-Bojac loamy sand, 2 to 6 percent slopes

Component: Bojac (90%)

The Bojac component makes up 90 percent of the map unit. Slopes are 2 to 6 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 60 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Map Unit: MuA—Munden sandy loam, 0 to 2 percent slopes

Component: Munden (90%)

The Munden component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Nimmo (6%)

Generated brief soil descriptions are created for major soil components. The Nimmo soil is a minor component.

Map Unit: NmA—Nimmo sandy loam, 0 to 2 percent slopes

Component: Nimmo (85%)

The Nimmo component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

Component: Polawana (2%)

Generated brief soil descriptions are created for major soil components. The Polawana soil is a minor component.

Map Unit: SeA—Seabrook loamy sand, 0 to 2 percent slopes

Component: Seabrook (90%)

The Seabrook component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 36 inches during January, February, March, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3s. This soil does not meet hydric criteria.

Component: Nimmo (2%)

Generated brief soil descriptions are created for major soil components. The Nimmo soil is a minor component.

Data Source Information

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



MAP LEGEND

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Aerial Photography

Δ

Water Features

Transportation

Background

+++

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

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 (0)



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



Sinkhole



Slide or Slip

Sodic Spot

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

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	1.9	11.2%
MuA	Munden sandy loam, 0 to 2 percent slopes	6.6	38.6%
NmA	Nimmo sandy loam, 0 to 2 percent slopes	8.6	50.2%
Totals for Area of Interest		17.1	100.0%

Map Unit Description (Brief, Generated)

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, provide information on the composition of map units and properties of their components.

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 and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

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

Report—Map Unit Description (Brief, Generated)

Accomack County, Virginia

Map Unit: BkA—Bojac sandy loam, 0 to 2 percent slopes

Component: Bojac (90%)

The Bojac component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 60 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 1. This soil does not meet hydric criteria.

Map Unit: MuA-Munden sandy loam, 0 to 2 percent slopes

Component: Munden (90%)

The Munden component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Nimmo (6%)

Generated brief soil descriptions are created for major soil components. The Nimmo soil is a minor component.

Map Unit: NmA-Nimmo sandy loam, 0 to 2 percent slopes

Component: Nimmo (85%)

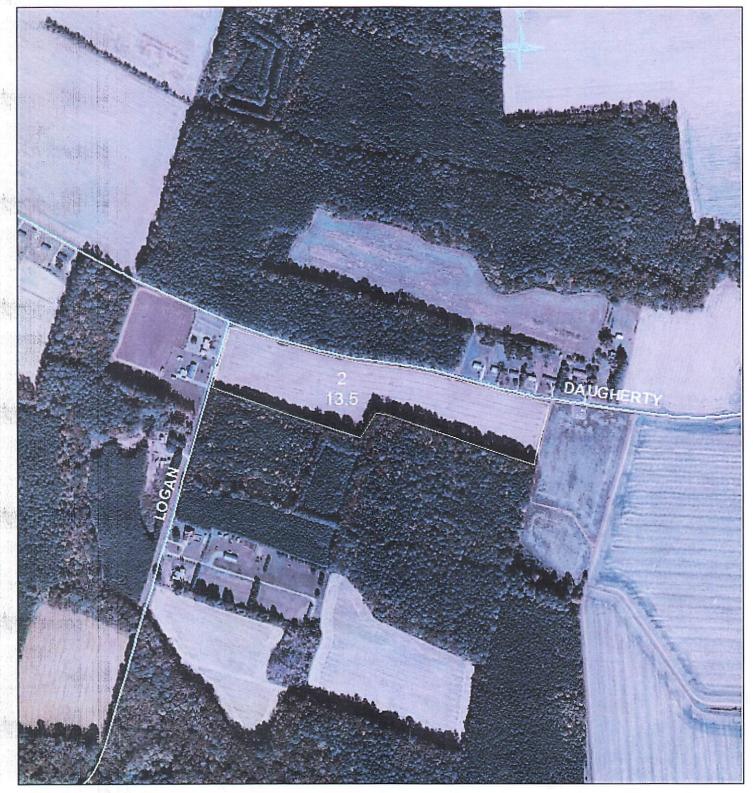
The Nimmo component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

Component: Polawana (2%)

Generated brief soil descriptions are created for major soil components. The Polawana soil is a minor component.

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

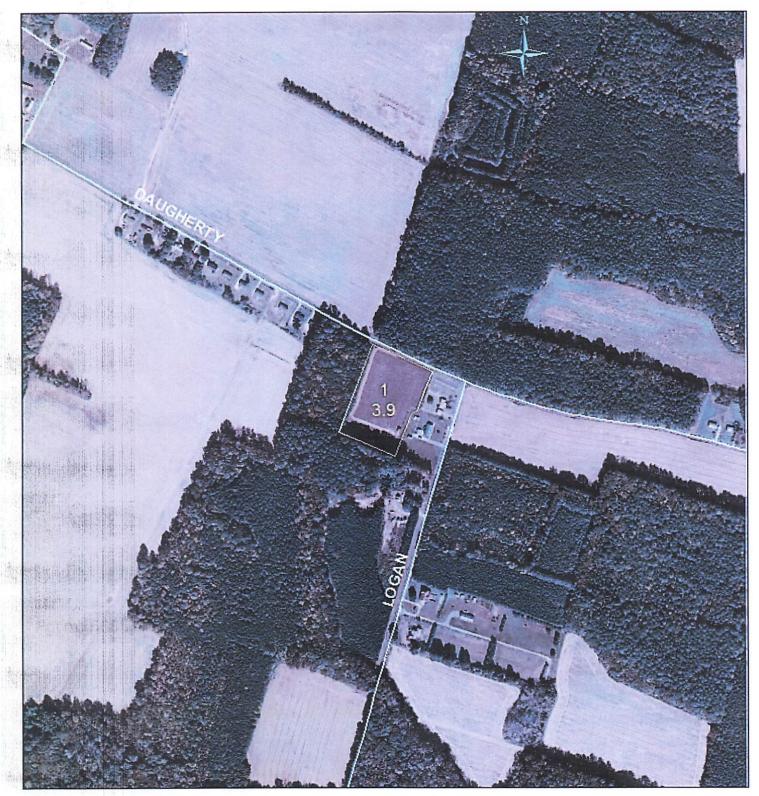
Farm: 5036 Tract: 77989 **Accomack County**

1:6,000

March 25, 2019

Disclaimer: 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.



USDA

United States Department of Agriculture Farm Service Agency

Farm: 5036 Tract: 77990 **Accomack County**

1:6,000

March 25, 2019

Disclaimer: 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.





Farm: 5036

Tract: 77989, 77990

Total Field Acres: Feld 1: 3.9 Field 2: 13.5 Total Application Acres: Field 1: 2.47

1: 3.9 Field 1: 2.47 2: 13.5 Field 2: 9.77





Legend

Owner:

Raenelle Humbles Zapata

1253 Girard Street NE

Washington, DC 20017

Operator:

David Hutchinson

Tax Parcels: 94-A-27

94-A-77

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

Feet

0 200 400 600 800 1:9,028 / 1"=752 Feet



Title: Humbles Zapata F5036 T77989 & T77990 F3 F4

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 is not responsible for its accuracy or how current it may be.





United States Department of Agriculture Farm Service Agency

Farm: 5036 Tract: 5203 **Accomack County**

1:6,000

boundaries and determinations, or contact NRCS.

Disclaimer: 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

March 25, 2019

Hutchinson





Farm: 5036 **Tract: 5203**

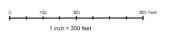
Field 2: 5.1

Field 3: 9.2

Field 2: 4.68 Field 3: 9.2



Hutchinson



Legend

Owner:

Raenelle Humbles Zapata 1253 Girard Street NE

Washington, DC 20017

....

David Hutchinson

Operator:

Tax Parcel 85-A-59

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

Feet

0 200 400 600 800 1:9,028 / 1"=752 Feet



Title: Humbles Zapata F5036 T5203 F1 F2

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 is not responsible for its accuracy or how current it may be.

YPA PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

Rachella Humban

referred to

Page 1 of 2

	A. This land application agreement is made on 11/11/2020 between referred to here as "Landowner", and 1yson Foods , referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.					
	Landowner: The Landowner is the owner of record of the real property located in					
	Table 1.: Parcels authori	zed to receive bi	osolids, water tr	eatment resid	luals or other	r industrial sludges
	Tax Parcel ID	Tax Parce	LID	Tax Parcel IC	2	Tax Parcel ID
T5203	85 A-59 1		20			
15314 C	94-17-27	- En-14-	127		1	
	94-A-77					
	Additional parcels containing Land A					
	Check one: The Lai	ndowner is the so ndowner is one o	ole owner of the of multiple owner	properties ide s of the prope	entified herei erties identifi	n. ed herein.
	In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall: 1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no late than the date of the property transfer; and 2. Notify the Permittee of the sale within two weeks following property transfer.					
	The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.					le to the Permittee for
	The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.					
	Class B biosolids Water tr ☐ Yes ☐ No ☐ Yes	eatment residuals No	Food proces	sing waste □ No	Other indust	rial sludges D(No
	Printed name	Z Mail	ing Address	STNE	Landowner Sig	nature
	By: Repette Humbles Zapata 1253 Grand St. NE 1253 Grand St. Ne					Alecant
						0
	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.					residuals to be applied.
	Printed name	Maill	ng Address P.o. 8	ox 8	Permittee- Autho	rized Representative
	Title O 1 m	Phon	poranceville, V. e No. 757-824	A 23442	Ve-	I-La
	Complex Manage	C FROM	10. 10 1-824	347/	7	
						\circ

Rev 6/11/2018b

VIRGINIA POLLUTION ABATEM	ENT PERMIT APPLICATION	PARTRAMA	ADDLIDATION
AGREEMENT		I MILL DOUGLEMEN	AFFLICATION

Permittee: Tyson Foods	County or City:	accomach	Count.
Landowner: Range Humble	2 Lanute	0.000	- Janey

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.

Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil.
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

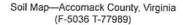
- Meat producing livestock shall not be grazed for 30 days,
- Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial
 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 kllograms/hectare).

Landowner's Signature Date



Web Soil Survey National Cooperative Soil Survey

11/19/2020 Page 1 of 3



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 (0)



Borrow Pit Clay Spot



Closed Depression





Gravel Pit Gravelly Spot



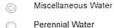
Landfill Lava Flow



Marsh or swamp



Mine or Quarry



Rock Outcrop



Saline Spot



Severely Eroded Spot

Slide or Slip Sodic Spot



Sinkhole

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



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

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
BkA	Bojac sandy loam, 0 to 2 percent slopes	7.0	51.6%
DrA	Dragston fine sandy loam, 0 to 2 percent slopes	2.7	19.6%
MuA	Munden sandy loam, 0 to 2 percent slopes	0.4	2.7%
NmA	Nimmo sandy loam, 0 to 2 percent slopes	3.6	26.1%
Totals for Area of Interest		13.7	100.0%



Map Unit Description (Brief, Generated)

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, provide information on the composition of map units and properties of their components.

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

Report—Map Unit Description (Brief, Generated)

Accomack County, Virginia

Map Unit: BkA-Bojac sandy loam, 0 to 2 percent slopes

Component: Bojac (90%)

The Bojac component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 60 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 1. This soil does not meet hydric criteria.

Map Unit: MuA-Munden sandy loam, 0 to 2 percent slopes

Component: Munden (90%)

The Munden component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Nimmo (6%)

Generated brief soil descriptions are created for major soil components. The Nimmo soil is a minor component.

Map Unit: NmA-Nimmo sandy loam, 0 to 2 percent slopes

Component: Nimmo (85%)

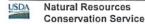
The Nimmo component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

Component: Polawana (2%)

Generated brief soil descriptions are created for major soil components. The Polawana soil is a minor component.

Data Source Information

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







MAP LEGEND

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

Mine or Quarry

Area of Interest (AOI)

Special Point Features

Blowout

Borrow Pit

Clay Spot

Gravel Pit

Landfill

Lava Flow

Gravelly Spot

Closed Depression

Soils

(0)

Area of Interest (AOI)

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Miscellaneous Water

Marsh or swamp

Perennial Water

Rock Outcrop

+ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

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.

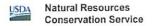
This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

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
BkA	Bojac sandy loam, 0 to 2 percent slopes	1.7	46.3%
DrA	Dragston fine sandy loam, 0 to 2 percent slopes	1.7	45.9%
MuA	Munden sandy loam, 0 to 2 percent slopes	0.0	1.0%
NmA	Nimmo sandy loam, 0 to 2 percent slopes	0.3	6.8%
Totals for Area of Interest		3.8	100.0%

Map Unit Description (Brief, Generated)

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, provide information on the composition of map units and properties of their components.

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 and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

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

Report—Map Unit Description (Brief, Generated)

Accomack County, Virginia

Map Unit: BkA—Bojac sandy loam, 0 to 2 percent slopes

Component: Bojac (90%)

The Bojac component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 60 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 1. This soil does not meet hydric criteria.

Map Unit: MuA-Munden sandy loam, 0 to 2 percent slopes

Component: Munden (90%)

The Munden component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Nimmo (6%)

Generated brief soil descriptions are created for major soil components. The Nimmo soil is a minor component.

Map Unit: NmA-Nimmo sandy loam, 0 to 2 percent slopes

Component: Nimmo (85%)

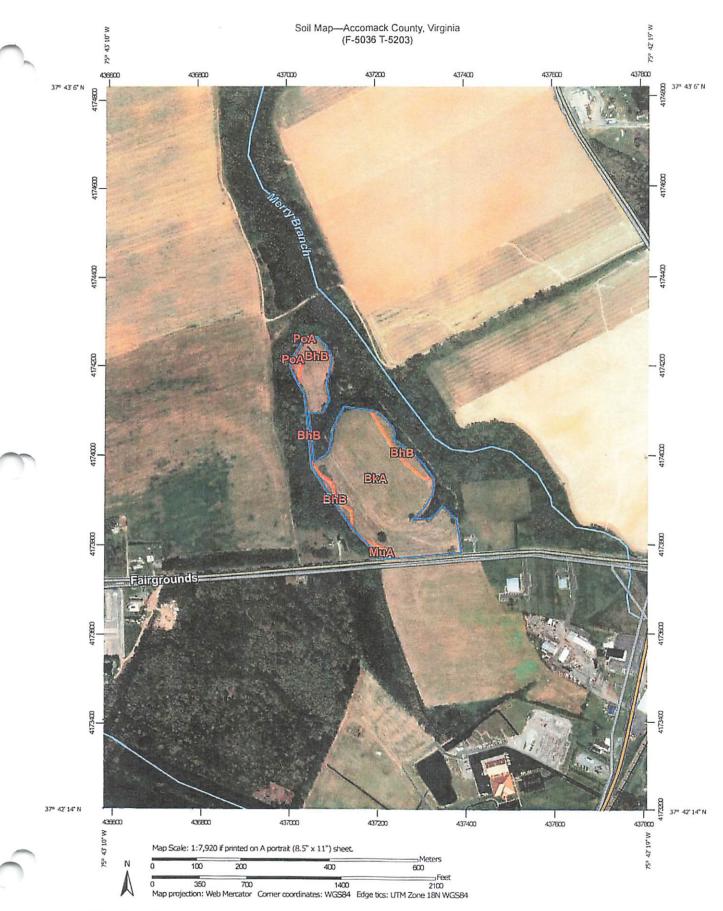
The Nimmo component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

Component: Polawana (2%)

Generated brief soil descriptions are created for major soil components. The Polawana soil is a minor component.

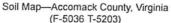
Data Source Information

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









MAP LEGEND

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Aerial Photography

Water Features

Transportation

Background

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravelly Spot
- 25 Landfill
- A 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

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.

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

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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	2.3	12.0%
BkA	Bojac sandy loam, 0 to 2 percent slopes	16.6	86.5%
MuA	Munden sandy loam, 0 to 2 percent slopes	0.2	1.3%
PoA	Polawana mucky sandy loam, 0 to 2 percent slopes, frequently flooded	0.0	0.2%
Totals for Area of Interest		19.2	100.0%



Map Unit Description (Brief, Generated)

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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 and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

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

Report—Map Unit Description (Brief, Generated)

Accomack County, Virginia

Map Unit: BkA-Bojac sandy loam, 0 to 2 percent slopes

Component: Bojac (90%)

The Bojac component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 60 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 1. This soil does not meet hydric criteria.



Map Unit: MuA-Munden sandy loam, 0 to 2 percent slopes

Component: Munden (90%)

The Munden component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Nimmo (6%)

Generated brief soil descriptions are created for major soil components. The Nimmo soil is a minor component.

Map Unit: NmA-Nimmo sandy loam, 0 to 2 percent slopes

Component: Nimmo (85%)

The Nimmo component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces on coastal plains. The parent material consists of marine sediments. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

Component: Polawana (2%)

Generated brief soil descriptions are created for major soil components. The Polawana soil is a minor component.

Data Source Information

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