Conservation Plan Report

Producer Information:

Monster Dairy, Cookie C Monster

Monster Dairy
123 Main Street
Mathews, VA 23109

Long Version

Description of Operation

The operation consists of a combination of small grain and beef production. The entire planned portion of the operation is within Mathews County in the Chesapeake Bay watershed. Of the 50.4 acres, 18 acres are crop fields and 32.4 are pasture. Both fields are adjacent to Godfrey Bay off of the Piankatank River.

Objective

The producer states that he would like to address soil loss on crop fields and to fence cattle out of the perennial stream.

Plan developed to meet the following program requirements:

(Insert legal statement about meeting program requirements)
Select all that apply:

   Technical Assistance Only
X CBPA
X VACS cost-share
   VACS tax credit
   DEQ funds
   Land Conservation Tax Credit
   Agriculture Stewardship Act

Assessment Summary

An onsite assessment indicated that while soil loss was not a major concern, soil loss and nutrient loss on crop fields could be reduced through the implementation of a small grain cover crop included in the rotation. The producer is currently implementing no-till planting practices, which should be maintained to keep soil loss to a minimum.

Currently, cattle have access to a perennial stream, Moot Creek, which runs through the middle of the pasture. The situation has created stream bank erosion concerns and is a water quality concern. The installation of an SL-6 practice would address this issue.

The existing buffer along the river is not adequate to prevent further erosion. Increased buffer width could address this concern.

Recommended BMPs

SL-8B: Small Grain cover crop for Nutrient Management

Instance ID: 205279

Description:

Cost-share and tax credit are provided to establish vegetative cover on cropland for protection from erosion and the reduction of nutrient losses to groundwater. Producer plans to plant a rye cover crop meeting the early planting date.

Purpose:

This practice will provide an incentive to keep a cover on cropland, which will help prevent the loss of nutrients. The purpose is to reduce erosion and the leaching of nutrients to ground water. This BMP is designed to utilize the maximum amount of residual nitrogen from previous surface nutrient applications and in the first three feet of the soil profile. Due to the proximity of surface waters cover crops on these specific fields are especially important.

Components (3)

Type	Ground Disturbing	Computed	Actual
Cover Crop	No	11.69 acres	11.7 acres

Spatial Data

Near T&E:	Not a **ground disturbing component, query not run**
Near Cultural Resources:	Query not run
City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	
Watersheds:	CB11

Narrative:

Close-growing grasses, legumes, or small grain will be grown for seasonal protection, soil improvement and nutrient management. Tetraploid Rye is being used for maximum nitrogen uptake in Field 1.

Affected Land Units (3)

Name	ID	Computed	Planned	Implemented

Field 1	1	11.69 acres	11.69 acres	0 acres

Type	Ground Disturbing	Computed	Actual
Cover Crop	No	3.34 acres	3.4 acres

Spatial Data

Near T&E:	Not a **ground disturbing component, query not run**
Near Cultural Resources:	Query not run
City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	
Watersheds:	CB11

Narrative:

Close-growing grasses, legumes, or small grain will be grown for seasonal protection, soil improvement and nutrient management. Tetraploid Rye is being used for maximum nitrogen uptake in Field 2.

Affected Land Units (4)

Name	ID	Computed	Planned	Implemented
Field 2	2	3.34 acres	3.34 acres	0 acres

Type	Ground Disturbing	Computed	Actual
Cover Crop	No	3.87 acres	3.9 acres

Spatial Data

Near T&E:	Not a **ground disturbing component, query not run**
Near Cultural Resources:	Query not run
City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	

Watersheds:	CB11

Narrative:

Close-growing grasses, legumes, or small grain will be grown for seasonal protection, soil improvement and nutrient management.   Tetraploid Rye is being used for maximum nitrogen uptake Field 3.

Affected Land Units (3)

Name	ID	Computed	Planned	Implemented
Field 3	3	3.87 acres	3.87 acres	0 acres

Recommended BMPs

SL-6: Stream Exclusion with Grazing Land Management

Instance ID: 205280

Description:
A structural and/or management practice that will enhance or protect vegetative cover to reduce runoff of sediment and nutrients from existing pastureland and reduce NPS pollution associated with grazing livestock. Existing historic buffer was only 20' so the producer decided to expand the buffer an additional 50'. Two section fence (approx, 3900' total), a stream crossing, one well, two watering troughs and approx. 1500' of pipeline will be installed.

Purpose:
Provide livestock water systems, fencing and/or a hardened pad for winter-feeding that will improve water quality by establishing rotational grazing to control erosion and eliminate direct access to or a direct runoff input to live streams where there is a defined water quality problem. Stream exclusion fencing is a required component of this practice. The system receiving cost share should reflect the least cost, technically feasible, environmentally effective approach to resolve the existing water quality problem.

Components (9)

Type	Ground Disturbing	Computed	Actual
Riparian Herbaceous Cover	No	2.51 acres	2.51 acres

Spatial Data

Near T&E:	Not a **ground disturbing component, query not run**
Near Cultural Resources:	Query not run
City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	
Watersheds:	CB11

Narrative:

Riparian herbaceous cover consist of grasses, grass-like plants, and forbs comprising the ecosystems along riparian areas of water courses or at the fringe of water bodies. This provides 35' of buffer on either side of Moots Creek.

Affected Land Units (1)

Name	ID	Computed	Planned	Implemented
Field 4	4	2.51 acres	2.51 acres	0 acres

Type	Ground Disturbing	Computed	Actual
Riparian Herbaceous Cover	No	1.13 acres	1.13 acres

Spatial Data

Near T&E:	Not a **ground disturbing component, query not run**
Near Cultural Resources:	Query not run
City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	
Watersheds:	CB11

Narrative:

Riparian herbaceous cover consist of grasses, grass-like plants, and forbs comprising the ecosystems along riparian areas of water courses or at the fringe of water bodies. This provides 50' of additional buffer on Godfrey Bay.

Affected Land Units (1)

Name	ID	Computed	Planned	Implemented
Field 4	4	1.13 acres	1.13 acres	0 acres

Type	Ground Disturbing	Computed	Actual
Fence	No	1,948.11 feet	1,948.11 feet

Spatial Data

Near T&E:	Not a **ground disturbing component, query not run**
Near Cultural Resources:	Query not run

City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	
Watersheds:	CB11

Narrative:

Construct a fence for use as a barrier to livestock. This fence will run along the western side of Moots Creek with a 35' buffer then along GodFrey Bay north with an additional 50' of buffer from the existing 20' historic buffer.

Affected Land Units (1)

Name	ID	Computed	Planned	Implemented
Field 4	4	1,948.11 feet	1,948.11 feet	0 feet

Type	Ground Disturbing	Computed	Actual
Fence	No	1,957.41 feet	1,957.41 feet

Spatial Data

Near T&E:	Not a **ground disturbing component, query not run**
Near Cultural Resources:	Query not run
City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	
Watersheds:	CB11

Narrative:

Construct a fence for use as a barrier to livestock. This fence will run along the eastern side of Moots Creek with a 35' buffer then along GodFrey Bay south with an additional 50' of buffer from the existing 20' historic buffer.

Affected Land Units (1)

Name	ID	Computed	Planned	Implemented

Field 4	4	1,957.41 feet	1,957.41 feet	0 feet

Type	Ground Disturbing	Computed	Actual
Stream Crossing **(578)**	Yes	71.72 feet	71.72 feet

Spatial Data

Near T&E:	Ground disturbing **component, T&E found**
Near Cultural Resources:	Query not run
City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	
Watersheds:	CB11

T & E Species Information

Site Name	Site Type	Description	BioDiversity Rank	BioDiversity Rank Significance	Distance (ft)
STINGRAY POINT	Conservation Site	At least two federally-listed animal species are known from this area. It is increasingly important to protect small populations and met population locations to ensure long-term species health and vigor. Protection efforts here are important. 03/04	B5	B5 - General interest/open space	6401
BETHEL BEACH	Conservation Site	This site supports many rare plants and animals, and plays a critical role in ecosystem and species health and viability. Continued protection and management efforts at this site are imperative. 02/04	B3	B3 - High	0

Narrative:
Trail or travel way constructed across a stream for livestock.

Affected Land Units (1)

Name	ID	Computed	Planned	Implemented
Field 4	4	71.72 feet	71.72 feet	0 feet

Type	Ground Disturbing	Computed	Actual
Pipeline	Yes	1,506.72 feet	1,506.72 feet

Spatial Data

Near T&E:	Ground disturbing **component, T&E found**
Near Cultural Resources:	Query not run
City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	
Watersheds:	CB11

T & E Species Information

Site Name	Site Type	Description	BioDiversity Rank	BioDiversity Rank Significance	Distance (ft)
STINGRAY POINT	Conservation Site	At least two federally-listed animal species are known from this area. It is increasingly important to protect small populations and met population locations to ensure long-term species health and vigor. Protection efforts here are important. 03/04	B5	B5 - General interest/open space	6136
BETHEL BEACH	Conservation Site	This site supports many rare plants and animals, and plays a critical role in ecosystem and species health and	B3	B3 - High	0

		viability. Continued protection and management efforts at this site are imperative. 02/04			

Narrative:
Install a pipeline to convey water from supply source to points of use.

Affected Land Units (1)

Name	ID	Computed	Planned	Implemented
Field 4	4	1,506.72 feet	1,506.72 feet	0 feet

Type	Ground Disturbing	Computed	Actual
Water Well	Yes	n/a n/a	n/a n/a

Spatial Data

Near T&E:	Ground disturbing **component, T&E found**
Near Cultural Resources:	Query not run
City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	
Watersheds:	CB11

T & E Species Information

Site Name	Site Type	Description	BioDiversity Rank	BioDiversity Rank Significance	Distance (ft)
BETHEL BEACH	Conservation Site	This site supports many rare plants and animals, and plays a critical role in ecosystem and species health and viability. Continued protection and management efforts at this site are imperative. 02/04	B3	B3 - High	641

Narrative:

Install a well. Well was sited close to the road for easy access to power.

Affected Land Units (1)

Name	ID	Computed	Planned	Implemented
Field 4	4	1 quantity	1 quantity	0 quantity

Type	Ground Disturbing	Computed	Actual
Watering Facility	Yes	n/a n/a	n/a n/a

Spatial Data

Near T&E:	Ground disturbing **component, T&E found**
Near Cultural Resources:	Query not run
City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	
Watersheds:	CB11

T & E Species Information

Site Name	Site Type	Description	BioDiversity Rank	BioDiversity Rank Significance	Distance (ft)
STINGRAY POINT	Conservation Site	At least two federally-listed animal species are known from this area. It is increasingly important to protect small populations and met population locations to ensure long-term species health and vigor. Protection efforts here are important. 03/04	B5	B5 - General interest/open space	6591
BETHEL BEACH	Conservation Site	This site supports many rare plants and animals, and plays a critical role in ecosystem and species health and viability. Continued	B3	B3 - High	0

		protection and management efforts at this site are imperative. 02/04			

Narrative:
Install a water drinking facility for livestock. This is one of two troughs installed, connected by a single pipeline.

Affected Land Units (1)

Name	ID	Computed	Planned	Implemented
Field 4	4	1 quantity	1 quantity	0 quantity

Type	Ground Disturbing	Computed	Actual
Watering Facility	Yes	n/a n/a	n/a n/a

Spatial Data

Near T&E:	Ground disturbing **component, T&E found**
Near Cultural Resources:	Query not run
City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	
Watersheds:	CB11

T & E Species Information

Site Name	Site Type	Description	BioDiversity Rank	BioDiversity Rank Significance	Distance (ft)
STINGRAY POINT	Conservation Site	At least two federally-listed animal species are known from this area. It is increasingly important to protect small populations and met population locations to ensure long-term species health and vigor. Protection efforts	B5	B5 - General interest/open space	6136

		here are important. 03/04			
BETHEL BEACH	Conservation Site	This site supports many rare plants and animals, and plays a critical role in ecosystem and species health and viability. Continued protection and management efforts at this site are imperative. 02/04	B3	B3 - High	0

Narrative:

Install a water drinking facility for livestock and/or wildlife. This is the second of two troughs installed, connected by a single pipeline.

Affected Land Units (1)

Name	ID	Computed	Planned	Implemented
Field 4	4	1 quantity	1 quantity	0 quantity

LandUnits (4)

LandUnit ID	Name	Type	Calculated Acres	Actual Acres
2	Field 2	Cropland/Specialty Crops	3.34	3.4

Spatial Information

City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	
Watersheds:	CB11

SOILS

Soils Information

Soil Record

MuSym	MuName	Hydric Class	Acres	% Total
Dr	Dragston fine sandy loam, shallow	7	0.05	1.38

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Fallsington	No	5	Class 1	Yes	B/D

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	20	.32	.32
H2	20	94	.24	.24
H3	94	236	.24	.24

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Dragston	Yes	3	Class 1	No	A/D

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp
Grass-legume hay	Tons		4						II
Oats	Bu		70						
Peanuts	Lbs		3000						
Pasture	AUM		8						II

Corn	Bu		140						IIa
Soybeans	Bu	34	40	40					II
Wheat	Bu	64	64	80					I
Barley	Bu	80	80	100					I

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	20	.32	.32
H2	20	64	.24	.24
H3	64	190	.17	.17

Soil Record

MuSym	MuName	Hydric Class	Acres	% Total
Wo	Woodstown fine sandy loam	0	2.81	84.19

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Woodstown	Yes	3	Class 1	No	C

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp
Soybeans	Bu	32	40	40		50			II
Corn	Bu		130			170			IIb
Corn silage	Tons		26						
Pasture	AUM		9						I
Grass-legume hay	Tons		5						I
Wheat	Bu	64	64	80					I
Barley	Bu	80	80	100					I

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	23	.28	.28
H2	23	89	.24	.24
H3	89	152	.24	.24

Soil Record

MuSym	MuName	Hydric Class	Acres	% Total

StE	Steep sandy land	0	0.48	14.43

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Steep sandy **land**	Yes		Class 1	No	

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	15	.10	.10
H2	15	152	.05	.05

LandUnit ID	Name	Type	Calculated Acres	Actual Acres
3	Field 3	Cropland/Specialty Crops	3.87	3.9

Spatial Information

City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	
Watersheds:	CB11

Soils Information

Soil Record

MuSym	MuName	Hydric Class	Acres	% Total
Dr	Dragston fine sandy loam, shallow	7	2.73	70.42

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Fallsington	No	5	Class 1	Yes	B/D

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	20	.32	.32
H2	20	94	.24	.24
H3	94	236	.24	.24

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Dragston	Yes	3	Class 1	No	A/D

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp
Grass-legume hay	Tons		4						II
Oats	Bu		70						
Peanuts	Lbs		3000						
Pasture	AUM		8						II
Corn	Bu		140						IIa
Soybeans	Bu	34	40	40					II
Wheat	Bu	64	64	80					I
Barley	Bu	80	80	100					I

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	20	.32	.32
H2	20	64	.24	.24
H3	64	190	.17	.17

Soil Record

MuSym	MuName	Hydric Class	Acres	% Total

| Wo | Woodstown fine sandy loam | 0 | 0.82 | 21.27 |

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Woodstown	Yes	3	Class 1	No	C

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp
Soybeans	Bu	32	40	40		50			II
Corn	Bu		130			170			IIb
Corn silage	Tons		26						
Pasture	AUM		9						I
Grass-legume hay	Tons		5						I
Wheat	Bu	64	64	80					I
Barley	Bu	80	80	100					I

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	23	.28	.28
H2	23	89	.24	.24
H3	89	152	.24	.24

Soil Record

MuSym	MuName	Hydric Class	Acres	% Total
StE	Steep sandy land	0	0.32	8.31

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Steep sandy land	Yes		Class 1	No	

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	15	.10	.10
H2	15	152	.05	.05

LandUnit ID	Name	Type	Calculated Acres	Actual Acres
1	Field 1	Cropland/Specialty Crops	11.69	11.7

Spatial Information

City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High
HUCs:	Piankatank River-Hills Bay
TMDLs:	
Watersheds:	CB11

Soils Information

Soil Record

MuSym	MuName	Hydric Class	Acres	% Total
Wo	Woodstown fine sandy loam	0	9.7	82.98

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Woodstown	Yes	3	Class 1	No	C

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp
Soybeans	Bu	32	40	40		50			II
Corn	Bu		130			170			IIb
Corn silage	Tons		26						
Pasture	AUM		9						I
Grass-legume hay	Tons		5						I
Wheat	Bu	64	64	80					I
Barley	Bu	80	80	100					I

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	23	.28	.28
H2	23	89	.24	.24
H3	89	152	.24	.24

Soil Record

MuSym	MuName	Hydric Class	Acres	% Total
StE	Steep sandy land	0	1.99	17.02

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Steep sandy land	Yes		Class 1	No	

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	15	.10	.10
H2	15	152	.05	.05

LandUnit ID	Name	Type	Calculated Acres	Actual Acres
4	Field 4	Pasture	32.45	32.4

Spatial Information

City/County:	Mathews County
Healthy Watersheds:	
Fema Floodplains:	X
Ranked HUCs:	CB11-High, CB12-High
HUCs:	Piankatank River-Hills Bay, Lower Chesapeake Bay-Milford Haven
TMDLs:	
Watersheds:	CB11, CB12

Soils Information

Soil Record

MuSym	MuName	Hydric Class	Acres	% Total
Dr	Dragston fine sandy loam, shallow	7	1.68	5.19

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Fallsington	No	5	Class 1	Yes	B/D

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	20	.32	.32
H2	20	94	.24	.24
H3	94	236	.24	.24

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Dragston	Yes	3	Class 1	No	A/D

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp
Grass-legume hay	Tons		4						II
Oats	Bu		70						
Peanuts	Lbs		3000						
Pasture	AUM		8						II
Corn	Bu		140						IIa
Soybeans	Bu	34	40	40					II
Wheat	Bu	64	64	80					I
Barley	Bu	80	80	100					I

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	20	.32	.32
H2	20	64	.24	.24
H3	64	190	.17	.17

Soil Record

MuSym	MuName	Hydric Class	Acres	% Total
Wo	Woodstown fine sandy loam	0	10.3	31.73

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Woodstown	Yes	3	Class 1	No	C

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp
Soybeans	Bu	32	40	40		50			II
Corn	Bu		130			170			IIb
Corn silage	Tons		26						
Pasture	AUM		9						I
Grass-legume hay	Tons		5						I
Wheat	Bu	64	64	80					I
Barley	Bu	80	80	100					I

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	23	.28	.28
H2	23	89	.24	.24
H3	89	152	.24	.24

Soil Record

MuSym	MuName	Hydric Class	Acres	% Total
Fa	Fallsington fine sandy loam	93	20.46	63.04

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Fallsington	Yes	5	Class 1	Yes	B/D

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp
Grass-legume hay	Tons		4						II
Pasture	AUM		8						II
Corn	Bu		140						IIa
Soybeans	Bu	34	40	40					II
Wheat	Bu	64	64	80					I
Barley	Bu	80	80	100					I

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	20	.32	.32
H2	20	94	.24	.24
H3	94	236	.24	.24

Soil Components

Name	Major Component	T Factor	Erosion Class	Hydric Rating	Hydrologic Group
Elkton	No	5	Class 1	Yes	C/D

Crop Yields

Crop Name	Units	Nirr Yield - Low	Nirr Yield	Nirr Yield - High	Irr Yield - Low	Irr Yield	Irr Yield - High	Prod Index	Va Soil Prod Grp

Horizons

Name	Top Depth	Bottom Depth	K Factor Whole Soil	K Factor Rock Free
H1	0	20	.49	.49
H2	20	119	.32	.32
H3	119	200	.15	.15

Plan Features (2)

Name	Type	Description
Moot Creek	Perennial Stream	Perennial Stream which bisects pasture field.

Existing Buffer	Historic Buffer	This buffer was established in 1970. Average buffer width is only 20' so additional buffer will need to be established.

Practice Schedule

List of Recommended BMPs	Month/year of implementation	Required Y/N Reason (select from dropdown list)	Producer agrees to implement Y/N If not all recommended land units, indicate agreed-upon land units.	Potential Funding Sources (select from dropdown list)
SL8-B Small Grain Cover Crop	10/2017	No	Yes	VACS Cost-Share
SL-6 Stream Exclusion	8/2017	No	Yes	VACS Cost-Share

Approval Signatures/Date

Owner/Operator Statement: I certify that I am the Owner/Operator of the included land units and am the responsible individual to be requesting this Conservation Plan. I will work towards installing the BMPs agreed to above.

I have read and understand this Conservation Plan and certify the information subitted to the best of my knowledge as true, accurate, and complete.

_____

Owner/Operator Name   Date

Plan Writer Statement: I certify that the Conservation Plan is true and correct in my professional judgement.

_____

Plan Writer   Date

_____

District Board Chair (if required)   Date

Attached Maps

Required: Proposed BMPs, topographical, aerial, soils

Optional: Location, VDOT, Hydrology, Existing Practices, Digitized Streams, Resource Concerns

Supporting documents: The module allows for uploading of maps from desktop software. Other supporting documents could include Nutrient Management Plan, Forestry Plan, Erosion Calculations, Pest Management, Photos, Environmental Evaluations, Grazing/Pasture Plans, Crop rotation plan, Cost Estimates (received by the producer/owner)