Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_714** **MUSGROVE DAM**

Diadromous Tier	14
Brook Trout Tier	N/A
Resident Tier	17
NID ID	VA05316
State ID	714
River Name	
Dam Height (ft)	12
Dam Type	Earth
Latitude	37.1889
Longitude	-77.4885
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Oldtown Creek-Appomattox Riv
HUC 10	Ashton Creek-Appomattox River
HUC 8	Appomattox
HUC 6	James
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	10.11
% Natural Cover in Upstream Drainage Area	43.65
% Forested in Upstream Drainage Area	29.37
% Agriculture in Upstream Drainage Area	0
% Natural Cover in ARA of Upstream Network	50.76
% Natural Cover in ARA of Downstream Network	59.64
% Forest Cover in ARA of Upstream Network	14.39
% Forest Cover in ARA of Downstream Network	30.49
% Agricultral Cover in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	3.59
% Impervious Surf in ARA of Upstream Network	11.98
% Impervious Surf in ARA of Downstream Network	9.32

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	31.46
% Tree Cover in ARA of Downstream Network	56.25
% Herbaceaous Cover in ARA of Upstream Network	20.09
% Herbaceaous Cover in ARA of Downstream Network	15.31
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	2.61
% Road Impervious in ARA of Downstream Network	7.55
% Other Impervious in ARA of Upstream Network	0.45
% Other Impervious in ARA of Downstream Network	1.86

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

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Network, System Type and Condition

Functional Upstream Network (mi)	0.22	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	2.56	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.22	# Downstream Hydropower Dams	1
# Size Classes in Total Network	1	# Downstream Dams with Passage	1
# Upstream Network Size Classes	0	# of Downstream Barriers	2

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	0
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	2.52
Density of off-channel dams in Upstream Network Watershed (#/m2)	0
Density of off-channel dams in Downstream Network Watershed (#/m2)	0

Diadromous Fish

Downstream Alewife	Historical	Downstream Striped Bass	None Documented
Downstream Blueback	Historical	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current

Presence of 1 or More Downstream Anadromous Species	Historical
# Diadromous Species Downstream (incl eel)	1

Resident Fish

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	58
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	3
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	POOR
MD MBSS Benthic IBI Stream Health	N/A
MD MBSS Fish IBI Stream Health	N/A
MD MBSS Combined IBI Stream Health	N/A
VA INSTAR mIBI Stream Health	Very High
PA IBI Stream Health	N/A

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