Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_110** **SMILEY DAM**

Bay-wide Diadromous Tier	2
Bay-wide Resident Tier	10
Bay-wide Brook Trout Tier	N/A
NID ID	VA04713
State ID	110
River Name	
Dam Height (ft)	29
Dam Type	
Latitude	38.6312
Longitude	-78.0207
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Mill Run-Thornton River
HUC 10	Thornton River
HUC 8	Rapidan-Upper Rappahannock
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.2
% Natural Cover in Upstream Drainage Area	53.88
% Forested in Upstream Drainage Area	52.71
% Agriculture in Upstream Drainage Area	40.24
% Natural Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	61.15
% Forest Cover in ARA of Upstream Network	0
% Forest Cover in ARA of Downstream Network	38.92
% Agricultral Cover in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	32.21
% Impervious Surf in ARA of Upstream Network	0
% Impervious Surf in ARA of Downstream Network	1.05

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	0
% Tree Cover in ARA of Downstream Network	62.07
% Herbaceaous Cover in ARA of Upstream Network	0
% Herbaceaous Cover in ARA of Downstream Network	28.22
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.27
% Road Impervious in ARA of Upstream Network	0
% Road Impervious in ARA of Downstream Network	0.91
% Other Impervious in ARA of Upstream Network	0
% Other Impervious in ARA of Downstream Network	1.01

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)	1.56	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	3330.58	# Downsteam Natural Barriers	0
Absolute Gain (mi)	1.56	# Downstream Hydropower Dams	0
# Size Classes in Total Network	5	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	0

NFHAP Cumulative Disturbance Index	Moderate
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	20.81
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	0.91
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	Current	Downstream Striped Bass	None Documented
Downstream Blueback	Current	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
One or More DS Anadromous Species	Current	# Diadromous Sp Dnstrm (incl eel)	3

Resident Fish and Rare Species

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	38
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# Rare Crayfish (HUC8)	0
Globally rare or fed listed fish/mussel sp HUC12	No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	No

Stream Health

Chesapeake Bay Program Stream Health	GOOD
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

Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	Yes

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