Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_SA004**

Bay-wide Diadromous Tier	5
Bay-wide Resident Tier	16
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	SA004
River Name	Freeman Creek
Dam Height (ft)	10
Dam Type	Unspecified Type
Latitude	39.3417
Longitude	-75.9463
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Lower Sassafras River
HUC 10	Sassafras River
HUC 8	Chester-Sassafras
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.89
% Natural Cover in Upstream Drainage Area	5.42
% Forested in Upstream Drainage Area	0.94
% Agriculture in Upstream Drainage Area	83.45
% Natural Cover in ARA of Upstream Network	8.8
% Natural Cover in ARA of Downstream Network	55.28
% Forest Cover in ARA of Upstream Network	0
% Forest Cover in ARA of Downstream Network	18.29
% Agricultral Cover in ARA of Upstream Network	80.03
% Agricultral Cover in ARA of Downstream Network	40.86
% Impervious Surf in ARA of Upstream Network	1.71
% Impervious Surf in ARA of Downstream Network	0.49

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	7.12
% Tree Cover in ARA of Downstream Network	38.66
% Herbaceaous Cover in ARA of Upstream Network	84.1
% Herbaceaous Cover in ARA of Downstream Network	44.74
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.13
% Road Impervious in ARA of Upstream Network	2.21
% Road Impervious in ARA of Downstream Network	0.51
% Other Impervious in ARA of Upstream Network	1.66
% Other Impervious in ARA of Downstream Network	1.27

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)	0.45	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	150.67	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.45	# Downstream Hydropower Dams	0
# Size Classes in Total Network	3	# Downstream Dams with Passage	0
# Upstream Network Size Classes	0	# of Downstream Barriers	0

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	98.21
% Conserved Land in 100m Buffer of Downstream Network	15.49
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	0.25
Density of off-channel dams in Upstream Network Watershed (#/m2)	0
Density of off-channel dams in Downstream Network Watershed (#/m2)	0.01

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	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	48
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	2
# 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	POOR
MD MBSS Benthic IBI Stream Health	Poor
MD MBSS Fish IBI Stream Health	Fair
MD MBSS Combined IBI Stream Health	Fair
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	N/A

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

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