Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12097** **POTOMAC RIVER DAM #4**

Bay-wide Diadromous Tier	11
Bay-wide Resident Tier	4
Bay-wide Brook Trout Tier	N/A
NID ID	MD00078
State ID	12097
River Name	Potomac River
Dam Height (ft)	20
Dam Type	Gravity
Latitude	39.4946
Longitude	-77.8267
Passage Facilities	None Documented
Passage Year	N/A
Size Class	4: Large River (3,861 - 9,653 sq
HUC 12	Rattlesnake Run-Potomac River
HUC 10	Rocky Marsh Run-Potomac Rive
HUC 8	Conococheague-Opequon
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.29
% Natural Cover in Upstream Drainage Area	72.79
% Forested in Upstream Drainage Area	71.13
% Agriculture in Upstream Drainage Area	20.1
% Natural Cover in ARA of Upstream Network	37.35
% Natural Cover in ARA of Downstream Network	39.13
% Forest Cover in ARA of Upstream Network	32.12
% Forest Cover in ARA of Downstream Network	25.68
% Agricultral Cover in ARA of Upstream Network	46.35
% Agricultral Cover in ARA of Downstream Network	49.57
% Impervious Surf in ARA of Upstream Network	4.38
% Impervious Surf in ARA of Downstream Network	1.69

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	41.38
% Tree Cover in ARA of Downstream Network	39.58
% Herbaceaous Cover in ARA of Upstream Network	48.3
% Herbaceaous Cover in ARA of Downstream Network	47.54
% Barren Cover in ARA of Upstream Network	0.43
% Barren Cover in ARA of Downstream Network	0.31
% Road Impervious in ARA of Upstream Network	2.17
% Road Impervious in ARA of Downstream Network	0.92
% Other Impervious in ARA of Upstream Network	4.7
% Other Impervious in ARA of Downstream Network	2.19

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)	596.99	Upstream Size Class Gain (#)	1
Total Functional Network (mi)	814.95	# Downsteam Natural Barriers	1
Absolute Gain (mi)	217.96	# Downstream Hydropower Dams	0
# Size Classes in Total Network	5	# Downstream Dams with Passage	1
# Upstream Network Size Classes	5	# of Downstream Barriers	3

NFHAP Cumulative Disturbance Index	Low
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	3.98
% Conserved Land in 100m Buffer of Downstream Network	21.94
Density of Crossings in Upstream Network Watershed (#/m2)	1.14
Density of Crossings in Downstream Network Watershed (#/m2)	0.94
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	None Documented	Downstream Striped Bass	None Documented
Downstream Blueback	None Documented	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	None Docume	# Diadromous Sp Dnstrm (incl eel)	1

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)	42
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	5
# Rare Crayfish (HUC8)	0
Globally rare or fed listed fish/mussel sp HUC12	Yes
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	Poor
MD MBSS Combined IBI Stream Health	Poor
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	Insufficient Data

Rare fish or mussel sp in HUC12	Yes
Rare fish or mussel in upstream or downstream functional network	Yes

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