Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_PA00447** **KEPHART**

Bay-wide Diadromous Tier	7
Bay-wide Resident Tier	1
Bay-wide Brook Trout Tier	1
NID ID	PA00447
State ID	PA00447
River Name	
Dam Height (ft)	20
Dam Type	Concrete / Earth
Latitude	40.9184
Longitude	-78.0602
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Black Moshannon Creek
HUC 10	Moshannon Creek
HUC 8	Upper West Branch Susquehann
HUC 6	West Branch Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.31
% Natural Cover in Upstream Drainage Area	94.51
% Forested in Upstream Drainage Area	91.93
% Agriculture in Upstream Drainage Area	0.47
% Natural Cover in ARA of Upstream Network	94.32
% Natural Cover in ARA of Downstream Network	93
% Forest Cover in ARA of Upstream Network	85.22
% Forest Cover in ARA of Downstream Network	84.61
% Agricultral Cover in ARA of Upstream Network	0.57
% Agricultral Cover in ARA of Downstream Network	2.11
% Impervious Surf in ARA of Upstream Network	0.23
% Impervious Surf in ARA of Downstream Network	0.66

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	75.99
% Tree Cover in ARA of Downstream Network	87.15
% Herbaceaous Cover in ARA of Upstream Network	12.61
% Herbaceaous Cover in ARA of Downstream Network	8.23
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.23
% Road Impervious in ARA of Upstream Network	0.32
% Road Impervious in ARA of Downstream Network	0.56
% Other Impervious in ARA of Upstream Network	0.16
% Other Impervious in ARA of Downstream Network	0.82

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)	21.39	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	3055.22	# Downsteam Natural Barriers	0
Absolute Gain (mi)	21.39	# Downstream Hydropower Dams	4
# Size Classes in Total Network	5	# Downstream Dams with Passage	6
# Upstream Network Size Classes	2	# of Downstream Barriers	8

NFHAP Cumulative Disturbance Index	Low
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	90.13
% Conserved Land in 100m Buffer of Downstream Network	50.93
Density of Crossings in Upstream Network Watershed (#/m2)	0.33
Density of Crossings in Downstream Network Watershed (#/m2)	0.55
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

Presence of 1 or More Downstream Anadromous Species	None Docume
# Diadromous Species Downstream (incl eel)	1

Resident Fish

Barrier is in EBTJV BKT Catchment	Yes
Barrier is in Modeled BKT Catchment (DeWeber)	Yes
Barrier Blocks an EBTJV Catchment	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	29
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	1
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	EXCELLENT
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	N/A
PA IBI Stream Health	Fair

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