Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_22-012** **LYKENS RESEVOIR**

Bay-wide Diadromous Tier	7
Bay-wide Resident Tier	11
Bay-wide Brook Trout Tier	9
NID ID	
State ID	22-012
River Name	Rattling Creek
Dam Height (ft)	4
Dam Type	Concrete
Latitude	40.552
Longitude	-76.6924
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Rattling Creek
HUC 10	Wiconisco Creek
HUC 8	Lower Susquehanna-Penns
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.07
% Natural Cover in Upstream Drainage Area	97.69
% Forested in Upstream Drainage Area	97.66
% Agriculture in Upstream Drainage Area	0.02
% Natural Cover in ARA of Upstream Network	96.61
% Natural Cover in ARA of Downstream Network	71.15
% Forest Cover in ARA of Upstream Network	96.37
% Forest Cover in ARA of Downstream Network	71.15
% Agricultral Cover in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	0
% Impervious Surf in ARA of Upstream Network	0.08
% Impervious Surf in ARA of Downstream Network	2.31

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	99.52
% Tree Cover in ARA of Downstream Network	90.48
% Herbaceaous Cover in ARA of Upstream Network	0.21
% Herbaceaous Cover in ARA of Downstream Network	6.74
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	0.08
% Road Impervious in ARA of Downstream Network	1.41
% Other Impervious in ARA of Upstream Network	0.02
% Other Impervious in ARA of Downstream Network	0

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)	15.77	Upstream Size Class Gain (#)	2
Total Functional Network (mi)	15.87	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.1	# Downstream Hydropower Dams	4
# Size Classes in Total Network	2	# Downstream Dams with Passage	5
# Upstream Network Size Classes	2	# of Downstream Barriers	6

NFHAP Cumulative Disturbance Index	Moderate
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	55.08
% Conserved Land in 100m Buffer of Downstream Network	48.65
Density of Crossings in Upstream Network Watershed (#/m2)	0.46
Density of Crossings in Downstream Network Watershed (#/m2)	0
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
One or More DS Anadromous Species	Historical	# Diadromous Sp Dnstrm (incl eel)	1

Resident Fish and Rare Species

Barrier is in EBTJV BKT Catchment	Yes
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes
Native Fish Species Richness (HUC8)	33
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	3
# 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	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	Insufficient Data

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

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