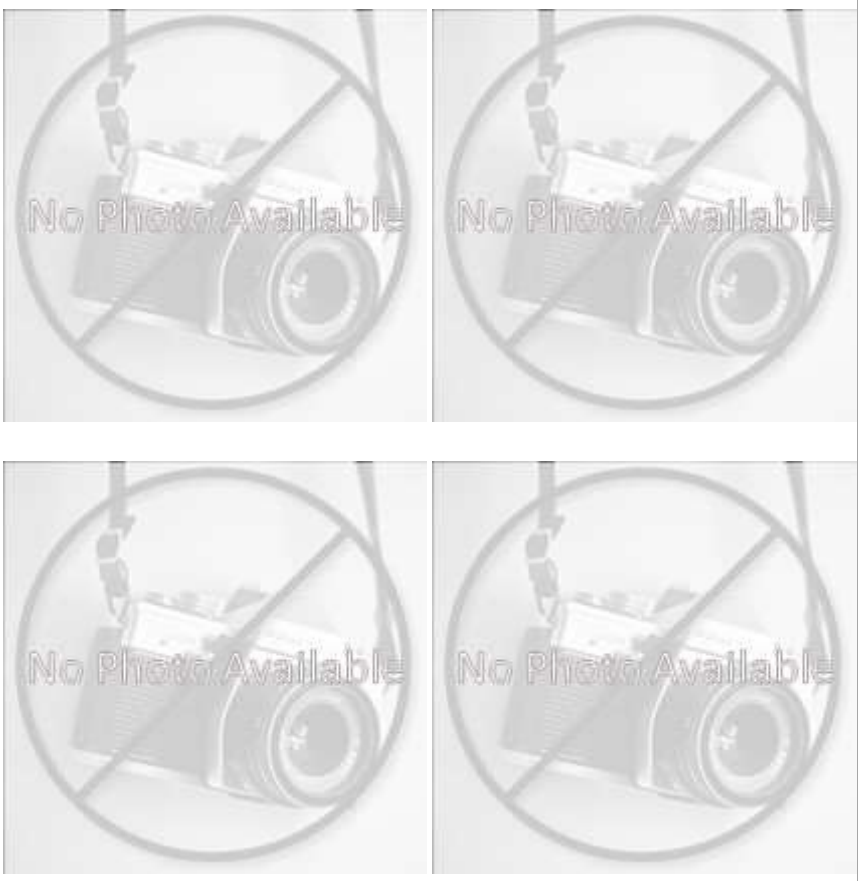
Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12317** **HIGHLAND LAKE**

Diadromous Tier	19
Brook Trout Tier	N/A
Resident Tier	14
NID ID	MD00358
State ID	12317
River Name	
Dam Height (ft)	22
Dam Type	Earth
Latitude	39.1906
Longitude	-76.9655
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Benson Branch-Middle Patuxent
HUC 10	Little Patuxent River
HUC 8	Patuxent
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake



Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	3.88
% Natural Cover in Upstream Drainage Area	30.77
% Forested in Upstream Drainage Area	26.67
% Agriculture in Upstream Drainage Area	22.56
% Natural Cover in ARA of Upstream Network	82
% Natural Cover in ARA of Downstream Network	52.78
% Forest Cover in ARA of Upstream Network	66
% Forest Cover in ARA of Downstream Network	39.25
% Agricultral Cover in ARA of Upstream Network	3
% Agricultral Cover in ARA of Downstream Network	21.44
% Impervious Surf in ARA of Upstream Network	1.12
% Impervious Surf in ARA of Downstream Network	6.75

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	64.46
% Tree Cover in ARA of Downstream Network	61.32
% Herbaceaous Cover in ARA of Upstream Network	14.6
% Herbaceaous Cover in ARA of Downstream Network	29.69
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.26
% Road Impervious in ARA of Upstream Network	0.69
% Road Impervious in ARA of Downstream Network	2.75
% Other Impervious in ARA of Upstream Network	1.14
% Other Impervious in ARA of Downstream Network	4.66

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)	0.35	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	233.87	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.35	# Downstream Hydropower Dams	0
# Size Classes in Total Network	3	# Downstream Dams with Passage	1
# Upstream Network Size Classes	0	# of Downstream Barriers	1

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	26.05
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	1.94
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

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

Resident Fish

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)	51
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	1
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	VERY_POOR
MD MBSS Benthic IBI Stream Health	Poor
MD MBSS Fish IBI Stream Health	Fair
MD MBSS Combined IBI Stream Health	Poor
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	N/A

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