Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_PA00033** **HAMILTON LAKE (PA-602)**

Bay-wide Diadromous Tier	14
Bay-wide Resident Tier	6
Bay-wide Brook Trout Tier	N/A
NID ID	PA00033
State ID	PA00033
River Name	Charleston Creek
Dam Height (ft)	76
Dam Type	Earth
Latitude	41.7402
Longitude	-77.2644
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Charleston Creek
HUC 10	Marsh Creek
HUC 8	Pine
HUC 6	West Branch Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.2
% Natural Cover in Upstream Drainage Area	60.18
% Forested in Upstream Drainage Area	56.95
% Agriculture in Upstream Drainage Area	37.4
% Natural Cover in ARA of Upstream Network	44.12
% Natural Cover in ARA of Downstream Network	71.46
% Forest Cover in ARA of Upstream Network	37.42
% Forest Cover in ARA of Downstream Network	63.46
% Agricultral Cover in ARA of Upstream Network	51.04
% Agricultral Cover in ARA of Downstream Network	18.38
% Impervious Surf in ARA of Upstream Network	0.43
% Impervious Surf in ARA of Downstream Network	2.27

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	43.43
% Tree Cover in ARA of Downstream Network	68.74
% Herbaceaous Cover in ARA of Upstream Network	50.72
% Herbaceaous Cover in ARA of Downstream Network	23.35
% Barren Cover in ARA of Upstream Network	0.04
% Barren Cover in ARA of Downstream Network	0.16
% Road Impervious in ARA of Upstream Network	0.92
% Road Impervious in ARA of Downstream Network	1.49
% Other Impervious in ARA of Upstream Network	1.05
% Other Impervious in ARA of Downstream Network	2.39

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)	11.49	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	1970.01	# Downsteam Natural Barriers	0
Absolute Gain (mi)	11.49	# Downstream Hydropower Dams	4
# Size Classes in Total Network	6	# Downstream Dams with Passage	6
# Upstream Network Size Classes	2	# of Downstream Barriers	7

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	38.6
Density of Crossings in Upstream Network Watershed (#/m2)	0.75
Density of Crossings in Downstream Network Watershed (#/m2)	0.72
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	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes
Native Fish Species Richness (HUC8)	27
# Rare Fish (HUC8)	0
# 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	Yes

Stream Health

Chesapeake Bay Program Stream Health	NO_SCORE
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	Good

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

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