Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_PA00815** **LAKE CHILLISQUAQUE**

Bay-wide Diadromous Tier	18
Bay-wide Resident Tier	7
Bay-wide Brook Trout Tier	N/A
NID ID	PA00815
State ID	PA00815
River Name	Middle Branch Chillisquaque Cre
Dam Height (ft)	54
Dam Type	Earth
Latitude	41.1017
Longitude	-76.661
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Upper Branches Chillisquaque Cr
HUC 10	Chillisquaque Creek
HUC 8	Lower West Branch Susquehann
HUC 6	West Branch Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.58
% Natural Cover in Upstream Drainage Area	42.2
% Forested in Upstream Drainage Area	35.56
% Agriculture in Upstream Drainage Area	52.96
% Natural Cover in ARA of Upstream Network	65.66
% Natural Cover in ARA of Downstream Network	57.7
% Forest Cover in ARA of Upstream Network	46.05
% Forest Cover in ARA of Downstream Network	44.4
% Agricultral Cover in ARA of Upstream Network	29.39
% Agricultral Cover in ARA of Downstream Network	27.91
% Impervious Surf in ARA of Upstream Network	0.41
% Impervious Surf in ARA of Downstream Network	3.93

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	58.4
% Tree Cover in ARA of Downstream Network	54.16
% Herbaceaous Cover in ARA of Upstream Network	24.52
% Herbaceaous Cover in ARA of Downstream Network	33.75
% Barren Cover in ARA of Upstream Network	0.36
% Barren Cover in ARA of Downstream Network	0.51
% Road Impervious in ARA of Upstream Network	0.67
% Road Impervious in ARA of Downstream Network	2
% Other Impervious in ARA of Upstream Network	0.47
% Other Impervious in ARA of Downstream Network	3.88

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)	11.93	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	7084.48	# Downsteam Natural Barriers	0
Absolute Gain (mi)	11.93	# Downstream Hydropower Dams	4
# Size Classes in Total Network	7	# Downstream Dams with Passage	5
# Upstream Network Size Classes	2	# of Downstream Barriers	6

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	6.98
Density of Crossings in Upstream Network Watershed (#/m2)	1.1
Density of Crossings in Downstream Network Watershed (#/m2)	0.98
Density of off-channel dams in Upstream Network Watershed (#/m2)	0
Density of off-channel dams in Downstream Network Watershed (#/m2)	0.01

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)	No
Native Fish Species Richness (HUC8)	31
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	1
# 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	ERY_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	Fair
Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	Yes

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