Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12178** **LAKE WATERFORD DAM**

Bay-wide Diadromous Tier	4
Bay-wide Resident Tier	14
Bay-wide Brook Trout Tier	N/A
NID ID	MD00151
State ID	12178
River Name	Magothy River
Dam Height (ft)	18
Dam Type	Earth
Latitude	39.1143
Longitude	-76.5593
Passage Facilities	Pool & Weir
Passage Year	1993
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Cattail Creek-Magothy River
HUC 10	Magothy River-Chesapeake Bay
HUC 8	Severn
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	12.55
% Natural Cover in Upstream Drainage Area	41.08
% Forested in Upstream Drainage Area	35.81
% Agriculture in Upstream Drainage Area	0
% Natural Cover in ARA of Upstream Network	47.73
% Natural Cover in ARA of Downstream Network	57.53
% Forest Cover in ARA of Upstream Network	36.47
% Forest Cover in ARA of Downstream Network	31.23
% Agricultral Cover in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	0.87
% Impervious Surf in ARA of Upstream Network	10.65
% Impervious Surf in ARA of Downstream Network	8.17

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	69.11
% Tree Cover in ARA of Downstream Network	70.79
% Herbaceaous Cover in ARA of Upstream Network	17.98
% Herbaceaous Cover in ARA of Downstream Network	10.94
% Barren Cover in ARA of Upstream Network	0.02
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	3.44
% Road Impervious in ARA of Downstream Network	2.36
% Other Impervious in ARA of Upstream Network	8.65
% Other Impervious in ARA of Downstream Network	6.48

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)	9.97	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	82.77	# Downsteam Natural Barriers	0
Absolute Gain (mi)	9.97	# Downstream Hydropower Dams	0
# Size Classes in Total Network	2	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	0

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	17.82
% Conserved Land in 100m Buffer of Downstream Network	4.02
Density of Crossings in Upstream Network Watershed (#/m2)	2.82
Density of Crossings in Downstream Network Watershed (#/m2)	0.68
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	Current	Downstream Striped Bass	None Documented
Downstream Blueback	Current	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	Current
# Diadromous Species Downstream (incl eel)	3

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)	30
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0

Stream Health

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

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