Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_01-009** **MARSH CREEK**

Bay-wide Diadromous Tier	19
Bay-wide Resident Tier	16
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	01-009
River Name	Marsh Creek
Dam Height (ft)	6
Dam Type	Rockfill
Latitude	39.7531
Longitude	-77.2751
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 sq mi
HUC 12	Lower Marsh Creek
HUC 10	Marsh Creek
HUC 8	Monocacy
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.61
% Natural Cover in Upstream Drainage Area	38.6
% Forested in Upstream Drainage Area	33.09
% Agriculture in Upstream Drainage Area	51.18
% Natural Cover in ARA of Upstream Network	25.93
% Natural Cover in ARA of Downstream Network	25.72
% Forest Cover in ARA of Upstream Network	16.6
% Forest Cover in ARA of Downstream Network	14.57
% Agricultral Cover in ARA of Upstream Network	69.51
% Agricultral Cover in ARA of Downstream Network	58.76
% Impervious Surf in ARA of Upstream Network	0.66
% Impervious Surf in ARA of Downstream Network	3.69

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	27.35
% Tree Cover in ARA of Downstream Network	30.76
% Herbaceaous Cover in ARA of Upstream Network	68.43
% Herbaceaous Cover in ARA of Downstream Network	62.51
% Barren Cover in ARA of Upstream Network	0.03
% Barren Cover in ARA of Downstream Network	0.27
% Road Impervious in ARA of Upstream Network	0.63
% Road Impervious in ARA of Downstream Network	1.55
% Other Impervious in ARA of Upstream Network	1.09
% Other Impervious in ARA of Downstream Network	3.75

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)	13.87	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	263.31	# Downsteam Natural Barriers	1
Absolute Gain (mi)	13.87	# Downstream Hydropower Dams	0
# Size Classes in Total Network	3	# Downstream Dams with Passage	1
# Upstream Network Size Classes	2	# of Downstream Barriers	3

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	18.02
% Conserved Land in 100m Buffer of Downstream Network	8.63
Density of Crossings in Upstream Network Watershed (#/m2)	0.81
Density of Crossings in Downstream Network Watershed (#/m2)	1.27
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	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	36
# 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	Yes

Stream Health

Chesapeake Bay Program Stream Health	ERY_POOR
MD MBSS Benthic IBI Stream Health	Fair
MD MBSS Fish IBI Stream Health	Good
MD MBSS Combined IBI Stream Health	Fair
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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