Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12295** **COLUMBIA CREEK DAM**

Diadromous Tier	11
Brook Trout Tier	N/A
Resident Tier	14
NID ID	MD00293
State ID	12295
River Name	
Dam Height (ft)	13
Dam Type	Earth
Latitude	38.4172
Longitude	-75.7343
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Rewastico Creek
HUC 10	Lower Nanticoke River
HUC 8	Nanticoke
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.24
% Natural Cover in Upstream Drainage Area	55.08
% Forested in Upstream Drainage Area	25.98
% Agriculture in Upstream Drainage Area	42.34
% Natural Cover in ARA of Upstream Network	66.53
% Natural Cover in ARA of Downstream Network	40.11
% Forest Cover in ARA of Upstream Network	27.52
% Forest Cover in ARA of Downstream Network	20.27
% Agricultral Cover in ARA of Upstream Network	31.19
% Agricultral Cover in ARA of Downstream Network	49.67
% Impervious Surf in ARA of Upstream Network	0.2
% Impervious Surf in ARA of Downstream Network	2.05

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	58.92
% Tree Cover in ARA of Downstream Network	41.79
% Herbaceaous Cover in ARA of Upstream Network	33.57
% Herbaceaous Cover in ARA of Downstream Network	52.49
% Barren Cover in ARA of Upstream Network	0.39
% Barren Cover in ARA of Downstream Network	0.16
% Road Impervious in ARA of Upstream Network	0.5
% Road Impervious in ARA of Downstream Network	1.3
% Other Impervious in ARA of Upstream Network	2.51
% Other Impervious in ARA of Downstream Network	3.07

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12295** **COLUMBIA CREEK DAM**

Network, System Type and Condition

Functional Upstream Network (mi)	1.19	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	11.48	# Downsteam Natural Barriers	0
Absolute Gain (mi)	1.19	# Downstream Hydropower Dams	0
# Size Classes in Total Network	2	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	1

NFHAP Cumulative Disturbance Index	Moderate
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	98.44
% Conserved Land in 100m Buffer of Downstream Network	9.97
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	0.56
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	Historical	Downstream Striped Bass	None Documented
Downstream Blueback	Historical	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	Historical
# 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)	46
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	1
# Rare Crayfish (HUC8)	0

Stream Health

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

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy