Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12162** **WILLIAMSPORT POWER PLANT DAM**

Bay-wide Diadromous Tier	14
Bay-wide Resident Tier	5
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	12162
River Name	Potomac River
Dam Height (ft)	6
Dam Type	Concrete Buttress
Latitude	39.5951
Longitude	-77.8299
Passage Facilities	None Documented
Passage Year	N/A
Size Class	4: Large River (3,861 - 9,653 sq
HUC 12	Camp Spring Run-Potomac River
HUC 10	Rocky Marsh Run-Potomac Rive
HUC 8	Conococheague-Opequon
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)

% Impervious Surface in Upstream Drainage Area	0.97
% Natural Cover in Upstream Drainage Area	75.72
% Forested in Upstream Drainage Area	74.09
% Agriculture in Upstream Drainage Area	18.05
% Natural Cover in ARA of Upstream Network	56.86
% Natural Cover in ARA of Downstream Network	37.35
% Forest Cover in ARA of Upstream Network	25.13
% Forest Cover in ARA of Downstream Network	32.12
% Agricultral Cover in ARA of Upstream Network	26.7
% Agricultral Cover in ARA of Downstream Network	46.35
% Impervious Surf in ARA of Upstream Network	5.27
% Impervious Surf in ARA of Downstream Network	4.38

Chesapeake Conservancy (2016)

% Tree Cover in ARA of Upstream Network	42.66
% Tree Cover in ARA of Downstream Network	41.38
% Herbaceaous Cover in ARA of Upstream Network	28.88
% Herbaceaous Cover in ARA of Downstream Network	48.3
% Barren Cover in ARA of Upstream Network	0.68
% Barren Cover in ARA of Downstream Network	0.43
% Road Impervious in ARA of Upstream Network	1.45
% Road Impervious in ARA of Downstream Network	2.17
% Other Impervious in ARA of Upstream Network	5.08
% Other Impervious in ARA of Downstream Network	4.7

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_12162** **WILLIAMSPORT POWER PLANT DAM**

Network, System Type and Condition

Functional Upstream Network (mi)	42.1	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	639.09	# Downsteam Natural Barriers	1
Absolute Gain (mi)	42.1	# Downstream Hydropower Dams	1
# Size Classes in Total Network	5	# Downstream Dams with Passage	1
# Upstream Network Size Classes	4	# of Downstream Barriers	4

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	12.87
% Conserved Land in 100m Buffer of Downstream Network	3.98
Density of Crossings in Upstream Network Watershed (#/m2)	1.39
Density of Crossings in Downstream Network Watershed (#/m2)	1.14
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

Presence of 1 or More Downstream Anadromous Species	None Docume
# 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)	42
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	5
# 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	Insufficient Dat

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

The Nature Conservancy