Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_102** **CHANDLERS MILL DAM**

Bay-wide Diadromous Tier	1
Bay-wide Resident Tier	1
Bay-wide Brook Trout Tier	N/A
NID ID	VA19311
State ID	102
River Name	
Dam Height (ft)	15
Dam Type	Gravity
Latitude	38.0975
Longitude	-76.848
Passage Facilities	Denil
Passage Year	1995
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	The Big Swamp-Cat Point Creek
HUC 10	Cat Point Creek-Rappahannock
HUC 8	Lower Rappahannock
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.81
% Natural Cover in Upstream Drainage Area	67.84
% Forested in Upstream Drainage Area	51.18
% Agriculture in Upstream Drainage Area	26.47
% Natural Cover in ARA of Upstream Network	95.13
% Natural Cover in ARA of Downstream Network	91.19
% Forest Cover in ARA of Upstream Network	58.9
% Forest Cover in ARA of Downstream Network	40.75
% Agricultral Cover in ARA of Upstream Network	3.69
% Agricultral Cover in ARA of Downstream Network	7.28
% Impervious Surf in ARA of Upstream Network	0.09
% Impervious Surf in ARA of Downstream Network	0.23

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	92.7
% Tree Cover in ARA of Downstream Network	78.01
% Herbaceaous Cover in ARA of Upstream Network	3.45
% Herbaceaous Cover in ARA of Downstream Network	9.14
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.01
% Road Impervious in ARA of Upstream Network	0.15
% Road Impervious in ARA of Downstream Network	0.22
% Other Impervious in ARA of Upstream Network	0.15
% Other Impervious in ARA of Downstream Network	0.17

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)	29.23	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	167.19	# Downsteam Natural Barriers	0
Absolute Gain (mi)	29.23	# Downstream Hydropower Dams	0
# Size Classes in Total Network	3	# Downstream Dams with Passage	0
# Upstream Network Size Classes	2	# of Downstream Barriers	0

NFHAP Cumulative Disturbance Index	Moderate
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	2.55
% Conserved Land in 100m Buffer of Downstream Network	12.05
Density of Crossings in Upstream Network Watershed (#/m2)	0.15
Density of Crossings in Downstream Network Watershed (#/m2)	0.28
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
One or More DS Anadromous Species	Current	# Diadromous Sp Dnstrm (incl eel)	3

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)	58
# Rare Fish (HUC8)	2
# Rare Mussel (HUC8)	2
# 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	No

Stream Health

Chesapeake Bay Program Stream Health	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	Very High
PA IBI Stream Health	N/A

Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	No

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