Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1141** **MCCAFFREY DAM**

Diadromous Tier	11
Brook Trout Tier	N/A
Resident Tier	4
NID ID	
State ID	1141
River Name	North Fork Shenandoah River
Dam Height (ft)	21
Dam Type	Gravity
Latitude	38.9748
Longitude	-78.3354
Passage Facilities	None Documented
Passage Year	N/A
Size Class	3a: Medium Tributary River (200
HUC 12	Tumbling Run-North Fork Shena
HUC 10	Narrow Passage Creek-North Fo
HUC 8	North Fork Shenandoah
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.26
% Natural Cover in Upstream Drainage Area	59.01
% Forested in Upstream Drainage Area	58.39
% Agriculture in Upstream Drainage Area	34.13
% Natural Cover in ARA of Upstream Network	49.04
% Natural Cover in ARA of Downstream Network	65.63
% Forest Cover in ARA of Upstream Network	40.44
% Forest Cover in ARA of Downstream Network	64.17
% Agricultral Cover in ARA of Upstream Network	39.41
% Agricultral Cover in ARA of Downstream Network	27.17
% Impervious Surf in ARA of Upstream Network	2.58
% Impervious Surf in ARA of Downstream Network	0.6

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	53.47
% Tree Cover in ARA of Downstream Network	73.52
% Herbaceaous Cover in ARA of Upstream Network	34.94
% Herbaceaous Cover in ARA of Downstream Network	22.72
% Barren Cover in ARA of Upstream Network	0.24
% Barren Cover in ARA of Downstream Network	0.64
% Road Impervious in ARA of Upstream Network	2.38
% Road Impervious in ARA of Downstream Network	1.25
% Other Impervious in ARA of Upstream Network	2.74
% Other Impervious in ARA of Downstream Network	0.96

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)	202.63	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	548.99	# Downsteam Natural Barriers	1
Absolute Gain (mi)	202.63	# Downstream Hydropower Dams	2
# Size Classes in Total Network	4	# Downstream Dams with Passage	3
# Upstream Network Size Classes	3	# of Downstream Barriers	5

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	9.36
% Conserved Land in 100m Buffer of Downstream Network	15.59
Density of Crossings in Upstream Network Watershed (#/m2)	1.37
Density of Crossings in Downstream Network Watershed (#/m2)	1.23
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	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes
Native Fish Species Richness (HUC8)	28
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	3
# Rare Crayfish (HUC8)	0

Stream Health

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

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