Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_906** **MURRAYS DAM**

Diadromous Tier	15
Brook Trout Tier	N/A
Resident Tier	12
NID ID	VA00337
State ID	906
River Name	Naked Creek
Dam Height (ft)	24
Dam Type	Earth
Latitude	38.1177
Longitude	-78.4915
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	South Fork Rivanna River
HUC 10	South Fork Rivanna River
HUC 8	Rivanna
HUC 6	James
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.55
% Natural Cover in Upstream Drainage Area	41.95
% Forested in Upstream Drainage Area	39.33
% Agriculture in Upstream Drainage Area	46.11
% Natural Cover in ARA of Upstream Network	37.45
% Natural Cover in ARA of Downstream Network	63.92
% Forest Cover in ARA of Upstream Network	33.99
% Forest Cover in ARA of Downstream Network	60.49
% Agricultral Cover in ARA of Upstream Network	60.91
% Agricultral Cover in ARA of Downstream Network	27.45
% Impervious Surf in ARA of Upstream Network	0.07
% Impervious Surf in ARA of Downstream Network	0.94

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	50.24
% Tree Cover in ARA of Downstream Network	69.86
% Herbaceaous Cover in ARA of Upstream Network	46.94
% Herbaceaous Cover in ARA of Downstream Network	26.08
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.01
% Road Impervious in ARA of Upstream Network	0.03
% Road Impervious in ARA of Downstream Network	0.86
% Other Impervious in ARA of Upstream Network	0.13
% Other Impervious in ARA of Downstream Network	0.54

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)	6.48	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	513.2	# Downsteam Natural Barriers	0
Absolute Gain (mi)	6.48	# Downstream Hydropower Dams	2
# Size Classes in Total Network	4	# Downstream Dams with Passage	4
# Upstream Network Size Classes	1	# of Downstream Barriers	5

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	2.93
% Conserved Land in 100m Buffer of Downstream Network	23.76
Density of Crossings in Upstream Network Watershed (#/m2)	0.79
Density of Crossings in Downstream Network Watershed (#/m2)	1.34
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	None Documented

Presence of 1 or More Downstream Anadromous Species	Historical
# Diadromous Species Downstream (incl eel)	0

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)	No
Native Fish Species Richness (HUC8)	36
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	VERY_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	Moderate
PA IBI Stream Health	N/A

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