Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_28-011** **CALEDONIA FURNACE**

Diadromous Tier	18
Brook Trout Tier	12
Resident Tier	8
NID ID	
State ID	28-011
River Name	
Dam Height (ft)	3
Dam Type	Earth
Latitude	39.91
Longitude	-77.4729
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Headwaters Conococheague Cre
HUC 10	Conococheague Creek
HUC 8	Conococheague-Opequon
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.1
% Natural Cover in Upstream Drainage Area	96.05
% Forested in Upstream Drainage Area	93.11
% Agriculture in Upstream Drainage Area	0.05
% Natural Cover in ARA of Upstream Network	91.47
% Natural Cover in ARA of Downstream Network	44.78
% Forest Cover in ARA of Upstream Network	85.29
% Forest Cover in ARA of Downstream Network	38.3
% Agricultral Cover in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	32.73
% Impervious Surf in ARA of Upstream Network	0.2
% Impervious Surf in ARA of Downstream Network	3.95

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	94.24
% Tree Cover in ARA of Downstream Network	51.1
% Herbaceaous Cover in ARA of Upstream Network	4.87
% Herbaceaous Cover in ARA of Downstream Network	40.91
% Barren Cover in ARA of Upstream Network	0.33
% Barren Cover in ARA of Downstream Network	0.86
% Road Impervious in ARA of Upstream Network	0.25
% Road Impervious in ARA of Downstream Network	1.67
% Other Impervious in ARA of Upstream Network	0.06
% Other Impervious in ARA of Downstream Network	4.15

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)	17.19	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	91.16	# Downsteam Natural Barriers	1
Absolute Gain (mi)	17.19	# Downstream Hydropower Dams	1
# Size Classes in Total Network	3	# Downstream Dams with Passage	1
# Upstream Network Size Classes	2	# of Downstream Barriers	8

NFHAP Cumulative Disturbance Index	Moderate
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	92.71
% Conserved Land in 100m Buffer of Downstream Network	29.98
Density of Crossings in Upstream Network Watershed (#/m2)	0.48
Density of Crossings in Downstream Network Watershed (#/m2)	1.42
Density of off-channel dams in Upstream Network Watershed (#/m2)	0.04
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	Yes
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	VERY_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	Fair

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