Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_45** **GREENE HILLS DAM**

Bay-wide Diadromous Tier	7
Bay-wide Resident Tier	10
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	45
River Name	
Dam Height (ft)	20
Dam Type	Gravity
Latitude	38.3247
Longitude	-78.3967
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Conway River
HUC 10	Conway River-Rapidan River
HUC 8	Rapidan-Upper Rappahannock
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	2.5
% Natural Cover in Upstream Drainage Area	29.75
% Forested in Upstream Drainage Area	25.46
% Agriculture in Upstream Drainage Area	33.74
% Natural Cover in ARA of Upstream Network	46.79
% Natural Cover in ARA of Downstream Network	45.08
% Forest Cover in ARA of Upstream Network	29.36
% Forest Cover in ARA of Downstream Network	42.26
% Agricultral Cover in ARA of Upstream Network	13.76
% Agricultral Cover in ARA of Downstream Network	49.71
% Impervious Surf in ARA of Upstream Network	2.21
% Impervious Surf in ARA of Downstream Network	0.5

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	47.19
% Tree Cover in ARA of Downstream Network	59.12
% Herbaceaous Cover in ARA of Upstream Network	29.67
% Herbaceaous Cover in ARA of Downstream Network	37.94
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.35
% Road Impervious in ARA of Upstream Network	0
% Road Impervious in ARA of Downstream Network	0.72
% Other Impervious in ARA of Upstream Network	0.16
% Other Impervious in ARA of Downstream Network	0.61

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)	0.5	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	520.98	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.5	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	1
# Upstream Network Size Classes	0	# of Downstream Barriers	2

NFHAP Cumulative Disturbance Index	Moderate
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	33.18
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	0.88
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	Current

Presence of 1 or More Downstream Anadromous Species	Historical
# 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)	No
Native Fish Species Richness (HUC8)	38
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	EXCELLENT
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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