

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1275**

AQUIA CREEK DAM

Bay-wide Diadromous Tier	1
Bay-wide Resident Tier	1
Bay-wide Brook Trout Tier	N/A
NID ID	VA17911
State ID	1275
River Name	Aquia Creek
Dam Height (ft)	81
Dam Type	Gravity
Latitude	38.4875
Longitude	-77.3964
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 sq mi)
HUC 12	Lower Aquia Creek
HUC 10	Potomac Creek-Potomac River
HUC 8	Lower Potomac
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	2.52	% Tree Cover in ARA of Upstream Network	82.89
% Natural Cover in Upstream Drainage Area	80.45	% Tree Cover in ARA of Downstream Network	47.81
% Forested in Upstream Drainage Area	64.55	% Herbaceous Cover in ARA of Upstream Network	9.09
% Agriculture in Upstream Drainage Area	4.5	% Herbaceous Cover in ARA of Downstream Network	12.32
% Natural Cover in ARA of Upstream Network	88.33	% Barren Cover in ARA of Upstream Network	0.81
% Natural Cover in ARA of Downstream Network	78.54	% Barren Cover in ARA of Downstream Network	0.08
% Forest Cover in ARA of Upstream Network	58.62	% Road Impervious in ARA of Upstream Network	1.01
% Forest Cover in ARA of Downstream Network	22.93	% Road Impervious in ARA of Downstream Network	2.16
% Agricultural Cover in ARA of Upstream Network	2.2	% Other Impervious in ARA of Upstream Network	2.14
% Agricultural Cover in ARA of Downstream Network	1.37	% Other Impervious in ARA of Downstream Network	3.72
% Impervious Surf in ARA of Upstream Network	1.53		
% Impervious Surf in ARA of Downstream Network	4.06		

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)	113.87	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	199.95	# Downstream Natural Barriers	0
Absolute Gain (mi)	86.08	# 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	Low		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	57.56		
% Conserved Land in 100m Buffer of Downstream Network	3.38		
Density of Crossings in Upstream Network Watershed (#/m2)	0.94		
Density of Crossings in Downstream Network Watershed (#/m2)	1.41		
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	Current	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	Current	Downstream American Eel	Current
One or More DS Anadromous Species	Current	# Diadromous Sp Dnstrm (incl eel)	5

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)	55
# Rare Fish (HUC8)	3
# 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	Yes

Stream Health

Chesapeake Bay Program Stream Health	GOOD
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
Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	Yes

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