

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1163**

LAKE FAIRFAX DAM

Bay-wide Diadromous Tier	6
Bay-wide Resident Tier	11
Bay-wide Brook Trout Tier	N/A
NID ID	VA05910
State ID	1163
River Name	Colvin Run
Dam Height (ft)	32
Dam Type	Gravity
Latitude	38.965
Longitude	-77.3172
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Difficult Run
HUC 10	Difficult Run-Potomac River
HUC 8	Middle Potomac-Catoctin
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	20.07	% Tree Cover in ARA of Upstream Network	63.15
% Natural Cover in Upstream Drainage Area	29.2	% Tree Cover in ARA of Downstream Network	72.74
% Forested in Upstream Drainage Area	25.35	% Herbaceous Cover in ARA of Upstream Network	24.12
% Agriculture in Upstream Drainage Area	2.67	% Herbaceous Cover in ARA of Downstream Network	11.29
% Natural Cover in ARA of Upstream Network	46.13	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	68.27	% Barren Cover in ARA of Downstream Network	0.41
% Forest Cover in ARA of Upstream Network	35.08	% Road Impervious in ARA of Upstream Network	3.6
% Forest Cover in ARA of Downstream Network	49.17	% Road Impervious in ARA of Downstream Network	3.9
% Agricultural Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	4.88
% Agricultural Cover in ARA of Downstream Network	0.92	% Other Impervious in ARA of Downstream Network	5.16
% Impervious Surf in ARA of Upstream Network	7.15		
% Impervious Surf in ARA of Downstream Network	6.38		

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)	6.63	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	174.13	# Downstream Natural Barriers	0
Absolute Gain (mi)	6.63	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	1
# Upstream Network Size Classes	1	# of Downstream Barriers	1
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	Yes		
% Conserved Land in 100m Buffer of Upstream Network	21.38		
% Conserved Land in 100m Buffer of Downstream Network	29.5		
Density of Crossings in Upstream Network Watershed (#/m2)	3.05		
Density of Crossings in Downstream Network Watershed (#/m2)	1.62		
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	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
Presence of 1 or More Downstream Anadromous Species	Current		
# Diadromous Species Downstream (incl eel)	3		

Resident Fish

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)	51
# 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	Very Poor
MD MBSS Fish IBI Stream Health	Poor
MD MBSS Combined IBI Stream Health	Poor
VA INSTAR mIBI Stream Health	Moderate
PA IBI Stream Health	N/A

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