

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_724**

LAKE MONTICELLO SETTLEMENT POND

Diadromous Tier	5
Brook Trout Tier	N/A
Resident Tier	3
NID ID	VA06510
State ID	724
River Name	Boston Creek
Dam Height (ft)	26
Dam Type	Earth
Latitude	37.9236
Longitude	-78.3427
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Stigger Creek-Rivanna River
HUC 10	Cunningham Creek-Rivanna Rive
HUC 8	Rivanna
HUC 6	James
HUC 4	Lower Chesapeake



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	1.32	% Tree Cover in ARA of Upstream Network	87.8
% Natural Cover in Upstream Drainage Area	77.56	% Tree Cover in ARA of Downstream Network	79.1
% Forested in Upstream Drainage Area	71.68	% Herbaceous Cover in ARA of Upstream Network	5.14
% Agriculture in Upstream Drainage Area	9.49	% Herbaceous Cover in ARA of Downstream Network	15.73
% Natural Cover in ARA of Upstream Network	87.74	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	79.33	% Barren Cover in ARA of Downstream Network	0.1
% Forest Cover in ARA of Upstream Network	79.76	% Road Impervious in ARA of Upstream Network	1.37
% Forest Cover in ARA of Downstream Network	65.28	% Road Impervious in ARA of Downstream Network	0.6
% Agricultural Cover in ARA of Upstream Network	4.27	% Other Impervious in ARA of Upstream Network	1.17
% Agricultural Cover in ARA of Downstream Network	16.03	% Other Impervious in ARA of Downstream Network	0.78
% Impervious Surf in ARA of Upstream Network	0.52		
% Impervious Surf in ARA of Downstream Network	0.71		

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)	5.13	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	5436.15	# Downstream Natural Barriers	0
Absolute Gain (mi)	5.13	# Downstream Hydropower Dams	2
# Size Classes in Total Network	6	# Downstream Dams with Passage	4
# Upstream Network Size Classes	2	# of Downstream Barriers	4
NFHAP Cumulative Disturbance Index	High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	39.41		
% Conserved Land in 100m Buffer of Downstream Network	11.23		
Density of Crossings in Upstream Network Watershed (#/m2)	1.17		
Density of Crossings in Downstream Network Watershed (#/m2)	0.84		
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	Potential Current	Downstream Striped Bass	None Documented
Downstream Blueback	Potential 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	Potential Curre		
# 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)	36
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	FAIR
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	Very High
PA IBI Stream Health	N/A

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