Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_324** **BATH CO. PUMPED STORAGE - LOWER**

Bay-wide Diadromous Tier	7
Bay-wide Resident Tier	1
Bay-wide Brook Trout Tier	3
NID ID	VA01707
State ID	324
River Name	Back Creek
Dam Height (ft)	170
Dam Type	Earth
Latitude	38.1981
Longitude	-79.8082
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 sq mi
HUC 12	Jim Dave Run-Back Creek
HUC 10	Back Creek-Middle Jackson River
HUC 8	Upper James
HUC 6	James
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.14
% Natural Cover in Upstream Drainage Area	87.18
% Forested in Upstream Drainage Area	85.75
% Agriculture in Upstream Drainage Area	9.2
% Natural Cover in ARA of Upstream Network	64.75
% Natural Cover in ARA of Downstream Network	71.3
% Forest Cover in ARA of Upstream Network	55.88
% Forest Cover in ARA of Downstream Network	57.81
% Agricultral Cover in ARA of Upstream Network	24.04
% Agricultral Cover in ARA of Downstream Network	19.96
% Impervious Surf in ARA of Upstream Network	0.63
% Impervious Surf in ARA of Downstream Network	0.55

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	63.64
% Tree Cover in ARA of Downstream Network	63.09
% Herbaceaous Cover in ARA of Upstream Network	26.47
% Herbaceaous Cover in ARA of Downstream Network	22.69
% Barren Cover in ARA of Upstream Network	0.01
% Barren Cover in ARA of Downstream Network	0.02
% Road Impervious in ARA of Upstream Network	1.06
% Road Impervious in ARA of Downstream Network	1.06
% Other Impervious in ARA of Upstream Network	0.76
% Other Impervious in ARA of Downstream Network	0.45

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_324** **BATH CO. PUMPED STORAGE - LOWER**

Network, System Type and Condition

Functional Upstream Network (mi)	220.61	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	951.34	# Downsteam Natural Barriers	0
Absolute Gain (mi)	220.61	# Downstream Hydropower Dams	8
# Size Classes in Total Network	4	# Downstream Dams with Passage	4
# Upstream Network Size Classes	3	# of Downstream Barriers	13

NFHAP Cumulative Disturbance Index	Low
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	45.79
% Conserved Land in 100m Buffer of Downstream Network	50.7
Density of Crossings in Upstream Network Watershed (#/m2)	1
Density of Crossings in Downstream Network Watershed (#/m2)	0.97
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	None Documented

Presence of 1 or More Downstream Anadromous Species	Historical
# Diadromous Species Downstream (incl eel)	0

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)	47
# Rare Fish (HUC8)	2
# Rare Mussel (HUC8)	6
# Rare Crayfish (HUC8)	0

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	Very High
PA IBI Stream Health	N/A

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy