Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_22-107** **BULLFROG VALLEY POND**

Bay-wide Diadromous Tier	14
Bay-wide Resident Tier	17
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	22-107
River Name	
Dam Height (ft)	9
Dam Type	Masonry
Latitude	40.2583
Longitude	-76.6852
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Swatara Creek-Susquehanna Riv
HUC 10	Lower Swatara Creek
HUC 8	Lower Susquehanna-Swatara
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	16.37
% Natural Cover in Upstream Drainage Area	33.93
% Forested in Upstream Drainage Area	31.03
% Agriculture in Upstream Drainage Area	8.25
% Natural Cover in ARA of Upstream Network	58.97
% Natural Cover in ARA of Downstream Network	25.1
% Forest Cover in ARA of Upstream Network	54.29
% Forest Cover in ARA of Downstream Network	10.85
% Agricultral Cover in ARA of Upstream Network	2.96
% Agricultral Cover in ARA of Downstream Network	16.4
% Impervious Surf in ARA of Upstream Network	5.8
% Impervious Surf in ARA of Downstream Network	17.49

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	75.58
% Tree Cover in ARA of Downstream Network	34.39
% Herbaceaous Cover in ARA of Upstream Network	14.58
% Herbaceaous Cover in ARA of Downstream Network	39.34
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	2
% Road Impervious in ARA of Upstream Network	1.89
% Road Impervious in ARA of Downstream Network	2.59
% Other Impervious in ARA of Upstream Network	7.29
% Other Impervious in ARA of Downstream Network	13.01

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: **PA_22-107** **BULLFROG VALLEY POND**

Network, System Type and Condition

Functional Upstream Network (mi)	1.88	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	15.68	# Downsteam Natural Barriers	0
Absolute Gain (mi)	1.88	# Downstream Hydropower Dams	4
# Size Classes in Total Network	3	# Downstream Dams with Passage	4
# Upstream Network Size Classes	1	# of Downstream Barriers	5

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	0.32
Density of Crossings in Upstream Network Watershed (#/m2)	2.44
Density of Crossings in Downstream Network Watershed (#/m2)	2.44
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	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	38
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	2
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	POOR
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	N/A
PA IBI Stream Health	Poor

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

The Nature Conservancy