Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_22-106** **MANADA GOLF CLUB POND**

Bay-wide Diadromous Tier	10
Bay-wide Resident Tier	15
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	22-106
River Name	Bow Creek
Dam Height (ft)	14
Dam Type	Earth
Latitude	40.3886
Longitude	-76.6753
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Bow Creek-Swatara Creek
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	1.56
% Natural Cover in Upstream Drainage Area	42.56
% Forested in Upstream Drainage Area	41.71
% Agriculture in Upstream Drainage Area	32.4
% Natural Cover in ARA of Upstream Network	31.66
% Natural Cover in ARA of Downstream Network	31.55
% Forest Cover in ARA of Upstream Network	28.17
% Forest Cover in ARA of Downstream Network	24.78
% Agricultral Cover in ARA of Upstream Network	38.43
% Agricultral Cover in ARA of Downstream Network	50.68
% Impervious Surf in ARA of Upstream Network	0.68
% Impervious Surf in ARA of Downstream Network	4.85

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	44.34
% Tree Cover in ARA of Downstream Network	36.03
% Herbaceaous Cover in ARA of Upstream Network	53.01
% Herbaceaous Cover in ARA of Downstream Network	53.85
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.54
% Road Impervious in ARA of Upstream Network	0.03
% Road Impervious in ARA of Downstream Network	1.43
% Other Impervious in ARA of Upstream Network	0.12
% Other Impervious in ARA of Downstream Network	5.87

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)	2.21	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	387.2	# Downsteam Natural Barriers	0
Absolute Gain (mi)	2.21	# Downstream Hydropower Dams	4
# Size Classes in Total Network	4	# Downstream Dams with Passage	5
# Upstream Network Size Classes	1	# of Downstream Barriers	6

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	0.19
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	1.24
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	Yes
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

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