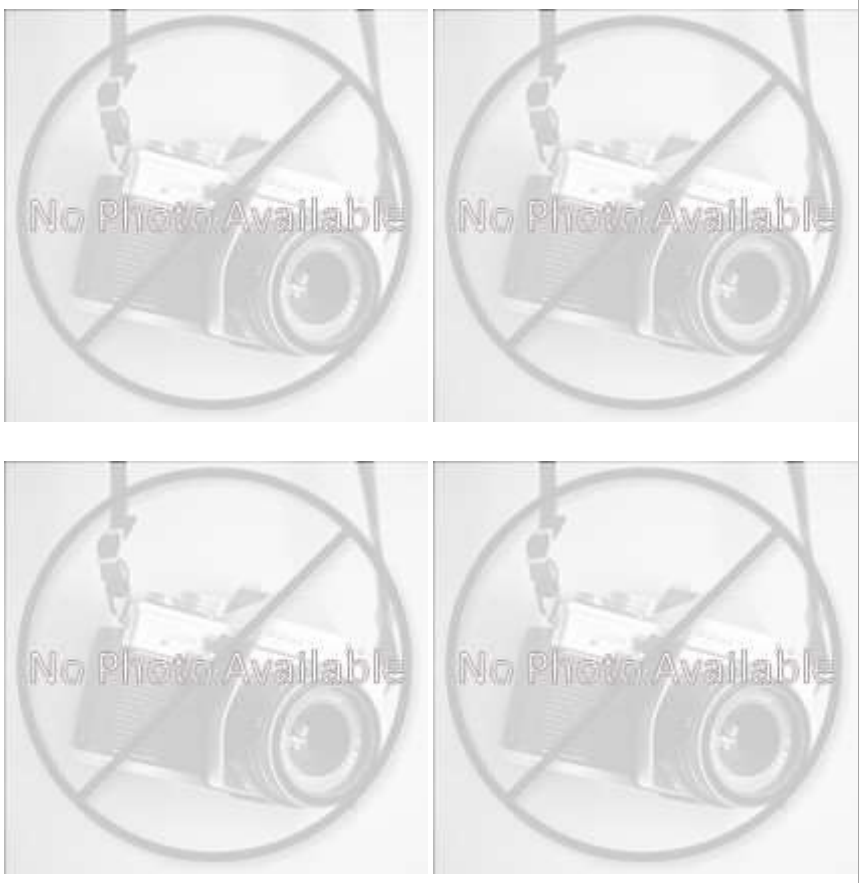
Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_772** **HOLLYWOOD POWER PLANT DAM** **BELLE ISLE**

Diadromous Tier	1
Brook Trout Tier	N/A
Resident Tier	14
NID ID	VA76003
State ID	772
River Name	James River
Dam Height (ft)	25
Dam Type	Gravity
Latitude	37.5309
Longitude	-77.4581
Passage Facilities	Breach
Passage Year	1989
Size Class	4: Large River (3,861 - 9,653 sq
HUC 12	Little Westham Creek-James Riv
HUC 10	Tuckahoe Creek-James River
HUC 8	Middle James-Willis
HUC 6	James
HUC 4	Lower Chesapeake



Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.2
% Natural Cover in Upstream Drainage Area	78.66
% Forested in Upstream Drainage Area	73.48
% Agriculture in Upstream Drainage Area	14.2
% Natural Cover in ARA of Upstream Network	59.74
% Natural Cover in ARA of Downstream Network	35.58
% Forest Cover in ARA of Upstream Network	17.98
% Forest Cover in ARA of Downstream Network	1.89
% Agricultral Cover in ARA of Upstream Network	0.31
% Agricultral Cover in ARA of Downstream Network	0
% Impervious Surf in ARA of Upstream Network	10.67
% Impervious Surf in ARA of Downstream Network	29.13

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	42.74
% Tree Cover in ARA of Downstream Network	9.67
% Herbaceaous Cover in ARA of Upstream Network	15.94
% Herbaceaous Cover in ARA of Downstream Network	21.65
% Barren Cover in ARA of Upstream Network	0.09
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	6.72
% Road Impervious in ARA of Downstream Network	13.66
% Other Impervious in ARA of Upstream Network	6.4
% Other Impervious in ARA of Downstream Network	14.42

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)	24.47	Upstream Size Class Gain (#)	2
Total Functional Network (mi)	25.3	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.84	# Downstream Hydropower Dams	1
# Size Classes in Total Network	3	# Downstream Dams with Passage	1
# Upstream Network Size Classes	3	# of Downstream Barriers	1

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	9.2
% Conserved Land in 100m Buffer of Downstream Network	2.96
Density of Crossings in Upstream Network Watershed (#/m2)	2.94
Density of Crossings in Downstream Network Watershed (#/m2)	2.88
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	Current
Downstream Blueback	Current	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	Current	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)	4

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)	3
# 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	Very High
PA IBI Stream Health	N/A

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