Chesapeake Fish Passage Prioritization - Dam Fact Sheet

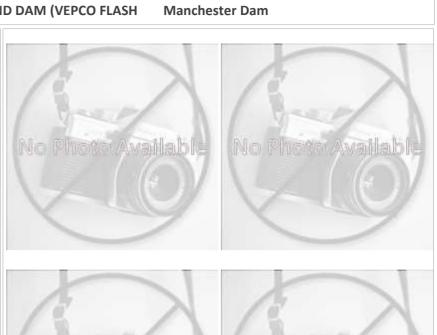
CFPPP Unique ID:	VA_815 BROWN'S ISLAN	BROWN'S ISLAN	
Diadromous Tier	1		
Brook Trout Tier	N/A		
Resident Tier	12		
NID ID	VA76009		
State ID	815		
River Name	James River		
Dam Height (ft)	8		
Dam Type			
Latitude	37.5337		
Longitude	-77.4445		
Passage Facilities	Breach		
Passage Year	1989		
Size Class	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		

James

Lower Chesapeake

HUC 8

HUC 4



Landcover					
NLCD (2011)		Chesapeake Conservancy (2016)			
% Impervious Surface in Upstream Drainage Area	1.2	% Tree Cover in ARA of Upstream Network	9.67		
% Natural Cover in Upstream Drainage Area	78.66	% Tree Cover in ARA of Downstream Network	50.43		
% Forested in Upstream Drainage Area	73.48	% Herbaceaous Cover in ARA of Upstream Network	21.65		
% Agriculture in Upstream Drainage Area	14.2	% Herbaceaous Cover in ARA of Downstream Network	21.6		
% Natural Cover in ARA of Upstream Network	35.58	% Barren Cover in ARA of Upstream Network	0		
% Natural Cover in ARA of Downstream Network	66.86	% Barren Cover in ARA of Downstream Network	1.39		
% Forest Cover in ARA of Upstream Network	1.89	% Road Impervious in ARA of Upstream Network	13.66		
% Forest Cover in ARA of Downstream Network	23.65	% Road Impervious in ARA of Downstream Network	3.27		
% Agricultral Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	14.42		
% Agricultral Cover in ARA of Downstream Network	(11.44	% Other Impervious in ARA of Downstream Network	6.14		
% Impervious Surf in ARA of Upstream Network	29.13				
% Impervious Surf in ARA of Downstream Network	7.27				



Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA 815 BROWN'S ISLAND DAM (VEPCO FLASH **Manchester Dam** Network, System Type and Condition Functional Upstream Network (mi) Upstream Size Class Gain (#) 0.84 0 Total Functional Network (mi) 297.2 # Downsteam Natural Barriers 0 Absolute Gain (mi) 0.84 # Downstream Hydropower Dams \cap # Size Classes in Total Network # Downstream Dams with Passage 4 0 # Upstream Network Size Classes # of Downstream Barriers 1 NEHAP Cumulative Disturbance Index Moderate Dam is on Conserved Land Nο % Conserved Land in 100m Buffer of Upstream Network 2.96 % Conserved Land in 100m Buffer of Downstream Network 7.43 Density of Crossings in Upstream Network Watershed (#/m2) 2.88 Density of Crossings in Downstream Network Watershed (#/m2) 1.5 Density of off-channel dams in Upstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Diadromous Fish Downstream Alewife Current **Downstream Striped Bass** Current Downstream Blueback Current Downstream Atlantic Sturgeon Current Downstream American Shad Current Downstream Shortnose Sturgeon Current Downstream Hickory Shad Current Downstream American Eel Current Presence of 1 or More Downstream Anadromous Species Current # Diadromous Species Downstream (incl eel) Resident Fish Stream Health Barrier is in EBTJV BKT Catchment Nο Chesapeake Bay Program Stream Health POOR Barrier is in Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A Barrier Blocks an EBTJV Catchment No MD MBSS Fish IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Native Fish Species Richness (HUC8) 51 VA INSTAR mIBI Stream Health Very High # Rare Fish (HUC8) 0 PA IBI Stream Health N/A # Rare Mussel (HUC8) 3 # Rare Crayfish (HUC8) 0

