Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_815 BROWN'S ISLAND DAM (VEPCO FLASH Manchester Dam

Bay-wide Diadromous Tier 1
Bay-wide Resident Tier 12
Bay-wide Brook Trout Tier N/A

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

HUC 6 James

HUC 4 Lower Chesapeake







	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						



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CFPPP Unique ID: VA_815	BROWN'S ISLAN	ID DAI	M (VEPCO FLASH	Manchester Dam		
	Network, S	ystem	Type and Condition			
Functional Upstream Network (mi)	0.84		Upstream Size Class Gain (#)		0	
Total Functional Network (mi)	297.2		# Downsteam Natural Barriers		0	
Absolute Gain (mi)	0.84		# Downstrea	am Hydropower Dams	0	
# Size Classes in Total Network	4		# Downstrea	# Downstream Dams with Passage		
# Upstream Network Size Classes	1		# of Downstream Barriers		0	
NFHAP Cumulative Disturbance Ind	ex		Mo	derate		
Dam is on Conserved Land			No			
% Conserved Land in 100m Buffer of Upstream Network 2.96				6		
% Conserved Land in 100m Buffer of	of Downstream Ne	twork	7.43	3		
Density of Crossings in Upstream No	etwork Watershed	d (#/m	2.88	8		
Density of Crossings in Downstream	n Network Waters	hed (#	r/m2) 1.5			
Density of off-channel dams in Upst	tream Network W	atersh	ed (#/m2) 0			
Density of off-channel dams in Dow	nstream Network	Wate	rshed (#/m2) 0			
	I	Diadro	mous Fish			
Downstream Alewife	Current	urrent Downstream Striped		d Bass	Current	
Downstream Blueback	Current	Downstream Atlantic Sturgeon		ic Sturgeon	Current	
Downstream American Shad	Current	Downstream Shortnose Sturgeon		Current		
Downstream Hickory Shad	Current		Downstream American Eel		Current	
One or More DS Anadromous Spec	ies Current		# Diadromous Sp Dnstrm (incl eel)		8	
Resident Fish and	d Rare Species			Stream Health		
Barrier is in EBTJV BKT Catchment		No	Chesapeake B	Chesapeake Bay Program Stream Health		POOF
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBSS Ber	MD MBSS Benthic IBI Stream Health		N/A
Barrier Blocks an EBTJV Catchment		No	MD MBSS Fish	MD MBSS Fish IBI Stream Health		N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber)		No	MD MBSS Cor	MD MBSS Combined IBI Stream Health		N/A
Native Fish Species Richness (HUC8)		51	VA INSTAR mi	VA INSTAR mIBI Stream Health		Very High
# Rare Fish (HUC8)		0	PA IBI Stream	PA IBI Stream Health		, N/A
# Rare Mussel (HUC8)		3				
# Rare Crayfish (HUC8)		0				
		No	Rare fish or m	Rare fish or mussel sp in HUC12		No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network		Yes	Rare fish or m	Rare fish or mussel in upstream or downstream functional network		Ye

