## **Chesapeake Fish Passage Prioritization - Dam Fact Sheet**

CFPPP Unique ID: VA\_959 BIG ISLAND DAM

Bay-wide Diadromous Tier 6
Bay-wide Resident Tier 2
Bay-wide Brook Trout Tier N/A

NID ID VA00902

State ID 959

River Name James River

Dam Height (ft) 18

Dam Type Gravity
Latitude 37.5356
Longitude -79.3558

Passage Facilities None Documented

Passage Year N/A

Size Class 3b: Medium Mainstem River (1,

HUC 12 Otter Creek-James River
HUC 10 Reed Creek-James River
HUC 8 Middle James-Buffalo

HUC 6 James

HUC 4 Lower Chesapeake







	Land	cover			
NLCD (2011)		Chesapeake Conservancy (2016)			
% Impervious Surface in Upstream Drainage Area	0.72	% Tree Cover in ARA of Upstream Network	82.97		
% Natural Cover in Upstream Drainage Area	82.71	% Tree Cover in ARA of Downstream Network	81.36		
% Forested in Upstream Drainage Area	81.22	% Herbaceaous Cover in ARA of Upstream Network	9.57		
% Agriculture in Upstream Drainage Area	11.94	% Herbaceaous Cover in ARA of Downstream Network	13.94		
% Natural Cover in ARA of Upstream Network	78.45	% Barren Cover in ARA of Upstream Network	0		
% Natural Cover in ARA of Downstream Network	77.47	% Barren Cover in ARA of Downstream Network	0.04		
% Forest Cover in ARA of Upstream Network	72.08	% Road Impervious in ARA of Upstream Network	1.16		
% Forest Cover in ARA of Downstream Network	73.44	% Road Impervious in ARA of Downstream Network	0.56		
% Agricultral Cover in ARA of Upstream Network	8.81	% Other Impervious in ARA of Upstream Network	1.09		
% Agricultral Cover in ARA of Downstream Network	16.59	% Other Impervious in ARA of Downstream Network	1.15		
% Impervious Surf in ARA of Upstream Network	1.42				
% Impervious Surf in ARA of Downstream Network	1.12				



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	Network, Syst	em Type	e and Condition			
Functional Upstream Network	(mi) 60.03		Upstream Size Class Gain (‡	<b>‡</b> )	0	
Total Functional Network (mi)	al Network (mi) 178.69		# Downsteam Natural Barriers		0	
Absolute Gain (mi)	60.03		# Downstream Hydropower		6	
# Size Classes in Total Network	k 3		# Downstream Dams with Pa		4	
# Upstream Network Size Clas	sses 3	# of Downstream Bar			8	
NFHAP Cumulative Disturband	ce Index		Very High			
Dam is on Conserved Land			No			
% Conserved Land in 100m Buffer of Upstream Network			51.45			
% Conserved Land in 100m Bu	iffer of Downstream Netw	ork	10.24			
Density of Crossings in Upstre	am Network Watershed (#	‡/m2)	1.56			
Density of Crossings in Downs	tream Network Watershee	d (#/m2	1.52			
Density of off-channel dams in	າ Upstream Network Wate	ershed (#	‡/m2) 0			
Density of off-channel dams in	າ Downstream Network W	atershe	d (#/m2) 0			
		idromou				
Downstream Alewife	Historical	Dov	rnstream Striped Bass None D		umente	
Downstream Blueback	Historical	Dov	wnstream Atlantic Sturgeon	None Documented		
Downstream American Shad	Historical	Dov	wnstream Shortnose Sturgeon	None Doc	umente	
Downstream Hickory Shad	None Documented	Dov	Downstream American Eel		None Documented	
Presence of 1 or More Downs	stream Anadromous Specie	es Hist	corical			
# Diadromous Species Downs	tream (incl eel)	0				
Pasida	ant Fish		Stron	m Health		
Resident Fish  Barrier is in EBTJV BKT Catchment  No		0	Chesapeake Bay Program Stream Health GOOD			
Barrier is in Modeled BKT Catchment (DeWeber)  No  Parrier Placks an EPTIV Catchment					N/A	
Barrier Blocks an EBTJV Catchment No			MD MBSS Fish IBI Stream Health		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber) Y					N/A	
		0			High	
# Rare Fish (HUC8)			PA IBI Stream Health		N/A	
# Rare Mussel (HUC8)	4					
# Rare Crayfish (HUC8)	0					
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