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

CFPPP Unique ID:	VA_959 BIG ISLAND DAM
Diadromous Tier	6
Brook Trout Tier	N/A
Resident Tier	2
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



Landcover								
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, Sy	ystem	Type and Co	ondition			
Functional Upstream Network	k (mi) 60.03		Ups	tream Size Class Gain (‡	<b>‡</b> )	0	
Total Functional Network (mi) 178.69			# Downsteam Natural Barriers			0	
Absolute Gain (mi) 60.03 # Size Classes in Total Network 3			# Downstream Hydropower Dams				
		# Downstream Dams with Passage				4	
# Upstream Network Size Clas	sses 3		# of Downstream Barriers  Very High				
NFHAP Cumulative Disturband	ce Index						
Dam is on Conserved Land			No				
% Conserved Land in 100m Bu	uffer of Upstream Netwo	ork		51.45			
% Conserved Land in 100m Bu	uffer of Downstream Ne	twork	<	10.24			
Density of Crossings in Upstre	am Network Watershed	d (#/m	12)	1.56			
Density of Crossings in Downs	tream Network Watersh	#/m2)	1.52				
Density of off-channel dams in	n Upstream Network Wa	atersh	ned (#/m2)	0			
Density of off-channel dams in	n Downstream Network	Wate	ershed (#/m2	) 0			
Downstream Alewife	L Historical	Jiadro	Downstread	m Stringd Rass	None Doo	rumenter	
			·				
Downstream Blueback Historical			Downstream Atlantic Sturgeon None Docun				
Downstream American Shad Historical  Downstream Hickory Shad None Documented			Downstream Shortnose Sturgeon None Documented  Downstream American Eel None Documented				
							Presence of 1 or More Downs
# Diadromous Species Downstream (incl eel)			0				
Reside	ent Fish			Strea	m Health		
Barrier is in EBTJV BKT Catchment			Chesa	Chesapeake Bay Program Stream Health GOOD			
Barrier is in Modeled BKT Catchment (DeWeber)  Barrier Blocks an EBTJV Catchment  Barrier Blocks a Modeled BKT Catchment (DeWeber)  Native Fish Species Richness (HUC8)  # Rare Fish (HUC8)		No		MD MBSS Benthic IBI Stream Health  MD MBSS Fish IBI Stream Health  MD MBSS Combined IBI Stream Health  VA INSTAR mIBI Stream Health  PA IBI Stream Health  N/A			
		No					
		50					
		4	ra ib	i Stream Health		IN/A	
,		-					
# Rare Crayfish (HUC8)		0					
			1				

