Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID:	VA_723	_	OBRIEN DAM
Bay-wide Diadromous Tier		5	
Bay-wide Resident Tier		2	
Bay-wide Brook Trout Tier		N/A	
NID ID			
State ID	723		
River Name			
Dam Height (ft)	20		
Dam Type	Earth		
Latitude	37.7141		
Longitude	-78.2903		
Passage Facilities	None Doc	ument	ed
Passage Year	N/A		
Size Class	1a: Headv	vater (0 - 3.861 sq mi)
HUC 12	Bear Gard	len Cre	ek-James River
HUC 10	Bear Gard	len Cre	ek-James River
HUC 8	Middle Ja	mes-Bເ	ıffalo
HUC 6	James		

Lower Chesapeake







Landcover					
NLCD (2011)		Chesapeake Conservancy (2016)			
% Impervious Surface in Upstream Drainage Area	0.17	% Tree Cover in ARA of Upstream Network	98.73		
% Natural Cover in Upstream Drainage Area	93.43	% Tree Cover in ARA of Downstream Network	79.1		
% Forested in Upstream Drainage Area	89.14	% Herbaceaous Cover in ARA of Upstream Network	0.91		
% Agriculture in Upstream Drainage Area	4.14	% Herbaceaous Cover in ARA of Downstream Network	15.73		
% Natural Cover in ARA of Upstream Network	97.06	% Barren Cover in ARA of Upstream Network	0		
% Natural Cover in ARA of Downstream Network	79.33	% Barren Cover in ARA of Downstream Network	0.1		
% Forest Cover in ARA of Upstream Network	89.87	% Road Impervious in ARA of Upstream Network	0		
% Forest Cover in ARA of Downstream Network	65.28	% Road Impervious in ARA of Downstream Network	0.6		
% Agricultral Cover in ARA of Upstream Network	2.94	% Other Impervious in ARA of Upstream Network	0.36		
% Agricultral Cover in ARA of Downstream Network	16.03	% Other Impervious in ARA of Downstream Network	0.78		
% Impervious Surf in ARA of Upstream Network	0				
% Impervious Surf in ARA of Downstream Network	0.71				

HUC 4

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CFPPP Unique ID: VA 723 **OBRIEN DAM** Network, System Type and Condition Functional Upstream Network (mi) Upstream Size Class Gain (#) O 2.41 Total Functional Network (mi) 5433.43 # Downsteam Natural Barriers 0 Absolute Gain (mi) 2.41 2 # Downstream Hydropower Dams # Size Classes in Total Network 6 # Downstream Dams with Passage # Upstream Network Size Classes # of Downstream Barriers 1 NEHAP Cumulative Disturbance Index Very High Dam is on Conserved Land Nο % Conserved Land in 100m Buffer of Upstream Network % Conserved Land in 100m Buffer of Downstream Network 11.23 0.84 Density of Crossings in Upstream Network Watershed (#/m2) Density of Crossings in Downstream Network Watershed (#/m2) 0.84 Density of off-channel dams in Upstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) \cap Diadromous Fish Downstream Alewife **Potential Current Downstream Striped Bass** None Documented Downstream Blueback **Potential Current** Downstream Atlantic Sturgeon None Documented Downstream American Shad None Documented None Documented Downstream Shortnose Sturgeon Downstream Hickory Shad None Documented Downstream American Eel Current One or More DS Anadromous Species Potential Curre # Diadromous Sp Dnstrm (incl eel) Resident Fish and Rare Species Stream Health Barrier is in EBTJV BKT Catchment No Chesapeake Bay Program Stream Health FAIR Barrier is in Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A Barrier Blocks an EBTJV Catchment Yes 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) 50 VA INSTAR mIBI Stream Health Very High 0 # Rare Fish (HUC8) PA IBI Stream Health N/A # Rare Mussel (HUC8) 4 # Rare Crayfish (HUC8) 0 Globally rare or fed listed fish/mussel sp HUC12 Rare fish or mussel sp in HUC12 Yes No



Yes

Rare fish or mussel in upstream or

downstream functional network

Globally rare or fed listed fish/mussel sp in

upstream or downstream functional network

Yes