Chesapeake Fish Passage Prioritization - Dam Fact Sheet

	chesapeake Hishi i assi
CFPPP Unique ID:	VA_723 OBRIEN DAM
Diadromous Tier	5
Brook Trout Tier	N/A
Resident Tier	2
NID ID	
State ID	723
River Name	
Dam Height (ft)	20
Dam Type	Earth
Latitude	37.7141
Longitude	-78.2903
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Bear Garden Creek-James River
HUC 10	Bear Garden 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	0.17	% 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			



Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_723 OBRIEN DAM

	Network, Sys	stem T	ype and Condition	
Functional Upstream Networ	k (mi) 2.41		Upstream Size Class Gain (#)	0
Total Functional Network (mi) 5433.43			# Downsteam Natural Barriers	0
Absolute Gain (mi)	2.41		# Downstream Hydropower Da	ms 2
# Size Classes in Total Networ	rk 6		# Downstream Dams with Passa	age 4
# Upstream Network Size Clas	sses 1		# of Downstream Barriers	4
NFHAP Cumulative Disturban	ice Index		Very High	
Dam is on Conserved Land			No	
% Conserved Land in 100m Buffer of Upstream Network		^k	0	
% Conserved Land in 100m Buffer of Downstream Network		work	11.23	
Density of Crossings in Upstre	eam Network Watershed ((#/m2)	0.84	
Density of Crossings in Downs	stream Network Watersho	ed (#/r	m2) 0.84	
Density of off-channel dams i	in Upstream Network Wat	tershe	d (#/m2) 0	
Density of off-channel dams i	in Downstream Network V	Waters	shed (#/m2) 0	
	Di	adrom	nous Fish	
Downstream Alewife	Potential Current	[Downstream Striped Bass No	ne Documented
Downstream Alewife Downstream Blueback	Potential Current Potential Current		·	ne Documented ne Documented
	Potential Current	[Downstream Atlantic Sturgeon No	
Downstream Blueback	Potential Current]	Downstream Atlantic Sturgeon No	ne Documented
Downstream Blueback Downstream American Shad	Potential Current None Documented None Documented]	Downstream Atlantic Sturgeon No	ne Documented
Downstream Blueback Downstream American Shad Downstream Hickory Shad	Potential Current None Documented None Documented stream Anadromous Spec	[[cies F	Downstream Atlantic Sturgeon No Downstream Shortnose Sturgeon No Downstream American Eel Cu	ne Documented
Downstream Blueback Downstream American Shad Downstream Hickory Shad Presence of 1 or More Downs # Diadromous Species Downs	Potential Current None Documented None Documented stream Anadromous Spec	[[cies F	Downstream Atlantic Sturgeon No Downstream Shortnose Sturgeon No Downstream American Eel Cu Potential Curre	ne Documented ne Documented rrent
Downstream Blueback Downstream American Shad Downstream Hickory Shad Presence of 1 or More Downs # Diadromous Species Downs	Potential Current None Documented None Documented stream Anadromous Spec stream (incl eel) ent Fish	[[cies F	Downstream Atlantic Sturgeon No Downstream Shortnose Sturgeon No Downstream American Eel Cu Potential Curre	ne Documented ne Documented rrent
Downstream Blueback Downstream American Shad Downstream Hickory Shad Presence of 1 or More Downs # Diadromous Species Downs Reside	Potential Current None Documented None Documented stream Anadromous Spectorstream (incl eel) ent Fish ment	[[ies F	Downstream Atlantic Sturgeon No Downstream Shortnose Sturgeon No Downstream American Eel Cu Potential Curre 1 Stream H	ne Documented ne Documented rrent ealth Health FAIR
Downstream Blueback Downstream American Shad Downstream Hickory Shad Presence of 1 or More Downs # Diadromous Species Downs Reside Barrier is in EBTJV BKT Catchi	Potential Current None Documented None Documented Istream Anadromous Speciatream (incl eel) ent Fish ment tchment (DeWeber)	[[[] [] [] [] [] [] [] [] []	Downstream Atlantic Sturgeon No Downstream Shortnose Sturgeon No Downstream American Eel Cu Potential Curre I Stream H Chesapeake Bay Program Stream	ne Documented ne Documented rrent ealth Health FAIR
Downstream Blueback Downstream American Shad Downstream Hickory Shad Presence of 1 or More Downs # Diadromous Species Downs Reside Barrier is in EBTJV BKT Catche Barrier is in Modeled BKT Cat	Potential Current None Documented None Documented Istream Anadromous Special Stream (incl eel) ent Fish ment tchment (DeWeber)	[[[] [] [] [] [] [] [] [] []	Downstream Atlantic Sturgeon No Downstream Shortnose Sturgeon No Downstream American Eel Cu Potential Curre I Stream H Chesapeake Bay Program Stream MD MBSS Benthic IBI Stream Hea	ne Documented ne Documented rrent ealth Health FAIR alth N/A N/A
Downstream Blueback Downstream American Shad Downstream Hickory Shad Presence of 1 or More Downs # Diadromous Species Downs Reside Barrier is in EBTJV BKT Catche Barrier is in Modeled BKT Catche Barrier Blocks an EBTJV Catche	Potential Current None Documented None Documented Instream Anadromous Special Stream (incl eel) Bent Fish Instream (DeWeber) Instrument (DeWeber) Instrument (DeWeber)	[[[] [] [] [] [] [] [] [] []	Downstream Atlantic Sturgeon No Downstream Shortnose Sturgeon No Downstream American Eel Cu Potential Curre I Stream H Chesapeake Bay Program Stream MD MBSS Benthic IBI Stream Health MD MBSS Fish IBI Stream Health	ne Documented ne Documented rrent ealth Health FAIR alth N/A N/A
Downstream Blueback Downstream American Shad Downstream Hickory Shad Presence of 1 or More Downs # Diadromous Species Downs Reside Barrier is in EBTJV BKT Catche Barrier is in Modeled BKT Catche Barrier Blocks an EBTJV Catche Barrier Blocks a Modeled BKT	Potential Current None Documented None Documented Instream Anadromous Special Stream (incl eel) Pent Fish Instream (DeWeber) Instrument Instrum	[[[] [] [] [] [] [] [] [] []	Downstream Atlantic Sturgeon No Downstream Shortnose Sturgeon No Downstream American Eel Cu Potential Curre I Stream H Chesapeake Bay Program Stream MD MBSS Benthic IBI Stream Health MD MBSS Combined IBI Stream I	ealth Health FAIR Alth N/A N/A Health N/A
Downstream Blueback Downstream American Shad Downstream Hickory Shad Presence of 1 or More Downstream Blade Barrier is in EBTJV BKT Catcher Barrier is in Modeled BKT Catcher Barrier Blocks an EBTJV Catcher Barrier Blocks a Modeled BKT Native Fish Species Richness	Potential Current None Documented None Documented Instream Anadromous Special Stream (incl eel) Pent Fish Instream (DeWeber) Instrument Instrum	icies F No No Yes No 50	Downstream Atlantic Sturgeon No Downstream Shortnose Sturgeon No Downstream American Eel Cu Potential Curre I Stream H Chesapeake Bay Program Stream MD MBSS Benthic IBI Stream Health MD MBSS Fish IBI Stream Health MD MBSS Combined IBI Stream Health VA INSTAR mIBI Stream Health	ealth Health FAIR N/A N/A Health N/A Very High

