Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_24 ESSEX MILL DAM

Bay-wide Diadromous Tier 2
Bay-wide Resident Tier 2

Bay-wide Brook Trout Tier N/A

NID ID VA05707

State ID 24

River Name Mill Creek

Dam Height (ft) 14

Dam Type Gravity

Latitude 37.8606

Longitude -76.8469

Passage Facilities None Documented

Passage Year N/A

Size Class 1b: Creek (3.861 - 38.61 sq mi)

HUC 12 Piscataway Creek

HUC 10 Cat Point Creek-Rappahannock

HUC 8 Lower Rappahannock

HUC 6 Lower Chesapeake

HUC 4 Lower Chesapeake







Landcover								
NLCD (2011)		Chesapeake Conservancy (2016)						
% Impervious Surface in Upstream Drainage Area	0.53	% Tree Cover in ARA of Upstream Network	89.53					
% Natural Cover in Upstream Drainage Area	76.64	% Tree Cover in ARA of Downstream Network	75.45					
% Forested in Upstream Drainage Area	57.11	% Herbaceaous Cover in ARA of Upstream Network	4.9					
% Agriculture in Upstream Drainage Area	18.54	% Herbaceaous Cover in ARA of Downstream Network	15.78					
% Natural Cover in ARA of Upstream Network	95.63	% Barren Cover in ARA of Upstream Network	0					
% Natural Cover in ARA of Downstream Network	84.87	% Barren Cover in ARA of Downstream Network	0.01					
% Forest Cover in ARA of Upstream Network	60.37	% Road Impervious in ARA of Upstream Network	0.44					
% Forest Cover in ARA of Downstream Network	37.92	% Road Impervious in ARA of Downstream Network	0.55					
% Agricultral Cover in ARA of Upstream Network	2.18	% Other Impervious in ARA of Upstream Network	0.52					
% Agricultral Cover in ARA of Downstream Network	11.74	% Other Impervious in ARA of Downstream Network	0.72					
% Impervious Surf in ARA of Upstream Network	0.19							
% Impervious Surf in ARA of Downstream Network	0.31							



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CITTI Offique ID. VA_24	LOSEA WILL DAW	/I				
	Network, Sy	/stem	Type and Cond	ition		
Functional Upstream Network	nctional Upstream Network (mi) 22.23		Upstream Size Class Gain (#)			0
Total Functional Network (mi)	144.24		# Dow	# Downsteam Natural Barriers		0
Absolute Gain (mi)	22.23		# Downstream Hydropower		r Dams	0
# Size Classes in Total Networ	k 3		# Downstream Dams with Pa		Passage	0
# Upstream Network Size Clas	sses 2		# of Downstream Barriers			0
NFHAP Cumulative Disturband	ce Index			Not Scored / Unav	ailable at th	nis scale
Dam is on Conserved Land				No		
% Conserved Land in 100m Buffer of Upstream Network				6.27		
% Conserved Land in 100m Bu	iffer of Downstream Net	twork		2.9		
Density of Crossings in Upstream Network Watershed (#/m			2)	0.23		
Density of Crossings in Downs	-		0.29			
Density of off-channel dams in	າ Upstream Network Wa	atersh	ed (#/m2)	0		
Density of off-channel dams in	n Downstream Network	Wate	rshed (#/m2)	0		
		Diadro	mous Fish			
Downstream Alewife	Current		Downstream Striped Bass None Doc			umented
Downstream Blueback	Current		Downstream Atlantic Sturgeon None Doc			umented
Downstream American Shad	None Documented		Downstream S	Shortnose Sturgeon	None Doc	umented
Downstream Hickory Shad	None Documented		Downstream A	American Eel	Current	
Presence of 1 or More Downs	stream Anadromous Spe	ecies	Current			
# Diadromous Species Downs	tream (incl eel)		3			
Resident Fish			Stream Health			
Barrier is in EBTJV BKT Catchment No.		No	Chesape	Chesapeake Bay Program Stream Health POOR		
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBS	MD MBSS Benthic IBI Stream Health		N/A
Barrier Blocks an EBTJV Catchment		No	MD MBS	MD MBSS Fish IBI Stream Health		N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber)		No	MD MBS	MD MBSS Combined IBI Stream Health N		N/A
Native Fish Species Richness (HUC8)		58	VA INST	VA INSTAR mIBI Stream Health		Outstanding
# Rare Fish (HUC8)		2	PA IBI St	ream Health		N/A
# Rare Mussel (HUC8)		2				
# Rare Crayfish (HUC8)		0				
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