Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_594 MATTAWAN ASSOCIATION DAM

Bay-wide Diadromous Tier 3
Bay-wide Resident Tier 4

Bay-wide Brook Trout Tier N/A

NID ID VA08539

State ID 594

River Name

Dam Height (ft) 27

Dam Type Gravity
Latitude 37.6572

Longitude -77.3225

Passage Facilities None Documented

Passage Year N/A

Size Class 1a: Headwater (0 - 3.861 sq mi)

HUC 12 Totopotomoy Creek

HUC 10 Upper Pamunkey River

HUC 8 Pamunkey

HUC 6 Lower Chesapeake

HUC 4 Lower Chesapeake







Landcover							
NLCD (2011)		Chesapeake Conservancy (2016)					
% Impervious Surface in Upstream Drainage Area	0.94	% Tree Cover in ARA of Upstream Network	68.71				
% Natural Cover in Upstream Drainage Area	74.76	% Tree Cover in ARA of Downstream Network	65.24				
% Forested in Upstream Drainage Area	59.91	% Herbaceaous Cover in ARA of Upstream Network	14.79				
% Agriculture in Upstream Drainage Area	14.78	% Herbaceaous Cover in ARA of Downstream Network	23.41				
% Natural Cover in ARA of Upstream Network	84.78	% Barren Cover in ARA of Upstream Network	0				
% Natural Cover in ARA of Downstream Network	76.09	% Barren Cover in ARA of Downstream Network	0.11				
% Forest Cover in ARA of Upstream Network	69.78	% Road Impervious in ARA of Upstream Network	1.92				
% Forest Cover in ARA of Downstream Network	32.03	% Road Impervious in ARA of Downstream Network	0.61				
% Agricultral Cover in ARA of Upstream Network	4.57	% Other Impervious in ARA of Upstream Network	5.92				
% Agricultral Cover in ARA of Downstream Network	19.65	% Other Impervious in ARA of Downstream Network	1.09				
% Impervious Surf in ARA of Upstream Network	0.85						
% Impervious Surf in ARA of Downstream Network	0.68						



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	Network, Sys	tem T	ype and Condition			
Functional Upstream Network (m	ni) 1.24		Upstream Size Class Gain (#)	0		
Total Functional Network (mi)	1343.37		# Downsteam Natural Barriers	0		
Absolute Gain (mi)	1.24		# Downstream Hydropower Dams	0		
# Size Classes in Total Network	5		# Downstream Dams with Passage	0		
# Upstream Network Size Classes	1		# of Downstream Barriers	0		
NFHAP Cumulative Disturbance I	ndex		Very High			
Dam is on Conserved Land			No			
% Conserved Land in 100m Buffer of Upstream Network			0			
% Conserved Land in 100m Buffer of Downstream Network			6.63			
Density of Crossings in Upstream Network Watershed (#/m			1.37			
Density of Crossings in Downstre	am Network Watershe	ed (#/r	m2) 0.59			
Density of off-channel dams in U	pstream Network Wat	ershe	d (#/m2) 0			
Density of off-channel dams in Do	ownstream Network W	Vaters	hed (#/m2) 0			
	Dia	adrom	nous Fish			
Downstream Alewife C	Current		Downstream Striped Bass None Do	cumented		
ownstream Blueback Current		[Downstream Atlantic Sturgeon None Documented			
ownstream American Shad None Documented		[Downstream Shortnose Sturgeon None Documented			
Downstream Hickory Shad N	one Documented	[Downstream American Eel Current			
Presence of 1 or More Downstre	am Anadromous Speci	ies C	Current			
# Diadromous Species Downstream (incl eel)		3	3			
Resident Fish			Stream Health			
Barrier is in EBTJV BKT Catchment No		No	Chesapeake Bay Program Stream Health FAIR			
Barrier is in Modeled BKT Catchment (DeWeber) No		No	MD MBSS Benthic IBI Stream Health N/A			
Barrier Blocks an EBTJV Catchment No		No	MD MBSS Fish IBI Stream Health	N/A		
Barrier Blocks a Modeled BKT Catchment (DeWeber) No		No	MD MBSS Combined IBI Stream Health	N/A		
Native Fish Species Richness (HUC8) 56		6	VA INSTAR mIBI Stream Health	Outstanding		
# Rare Fish (HUC8)		L	PA IBI Stream Health	N/A		
# Rare Mussel (HUC8) 3		3				
# Rare Crayfish (HUC8) 0)				

