Chesapeake Fish Passage Prioritization - Dam Fact Sheet

	Chesapeake Hish Fasse
CFPPP Unique ID:	VA_97 RUFFINS POND
Diadromous Tier	1
Brook Trout Tier	N/A
Resident Tier	1
NID ID	VA17715
State ID	97
River Name	Massaponax Creek
Dam Height (ft)	23
Dam Type	Gravity
Latitude	38.2457
Longitude	-77.4026
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Massaponax Creek
HUC 10	Massaponax Creek-Rappahanno
HUC 8	Lower Rappahannock
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake



Landcover					
NLCD (2011)		Chesapeake Conservancy (2016)			
% Impervious Surface in Upstream Drainage Area	11.01	% Tree Cover in ARA of Upstream Network	72.88		
% Natural Cover in Upstream Drainage Area	50.27	% Tree Cover in ARA of Downstream Network	62.07		
% Forested in Upstream Drainage Area	31.48	% Herbaceaous Cover in ARA of Upstream Network	17.46		
% Agriculture in Upstream Drainage Area	6.36	% Herbaceaous Cover in ARA of Downstream Network	28.22		
% Natural Cover in ARA of Upstream Network	66.61	% Barren Cover in ARA of Upstream Network	0.2		
% Natural Cover in ARA of Downstream Network	61.15	% Barren Cover in ARA of Downstream Network	0.27		
% Forest Cover in ARA of Upstream Network	31.48	% Road Impervious in ARA of Upstream Network	2.8		
% Forest Cover in ARA of Downstream Network	38.92	% Road Impervious in ARA of Downstream Network	0.91		
% Agricultral Cover in ARA of Upstream Network	5.29	% Other Impervious in ARA of Upstream Network	4.14		
% Agricultral Cover in ARA of Downstream Network	32.21	% Other Impervious in ARA of Downstream Network	1.01		
% Impervious Surf in ARA of Upstream Network	6				
% Impervious Surf in ARA of Downstream Network	1.05				



Chesapeake Fish Passage Prioritization - Dam Fact Sheet CFPPP Unique ID: VA 97 **RUFFINS POND DAM** F.H. Mills Memorial Dam Network, System Type and Condition Functional Upstream Network (mi) Upstream Size Class Gain (#) 112.29 0 Total Functional Network (mi) 3441.3 # Downsteam Natural Barriers Absolute Gain (mi) 112.29 # Downstream Hydropower Dams \cap # Size Classes in Total Network # Downstream Dams with Passage 5 0 # Upstream Network Size Classes 2 # of Downstream Barriers \cap NEHAP Cumulative Disturbance Index Not Scored / Unavailable at this scale Dam is on Conserved Land No % Conserved Land in 100m Buffer of Upstream Network 3.73 % Conserved Land in 100m Buffer of Downstream Network 20.81 Density of Crossings in Upstream Network Watershed (#/m2) 2.21 Density of Crossings in Downstream Network Watershed (#/m2) 0.91 Density of off-channel dams in Upstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) Diadromous Fish Downstream Alewife Current **Downstream Striped Bass** None Documented Downstream Blueback Current Downstream Atlantic Sturgeon None Documented Downstream American Shad None Documented Downstream Shortnose Sturgeon None Documented Downstream Hickory Shad None Documented Downstream American Eel Current Presence of 1 or More Downstream Anadromous Species Current # Diadromous Species Downstream (incl eel) Resident Fish Stream Health Barrier is in EBTJV BKT Catchment Nο Chesapeake Bay Program Stream Health GOOD 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) 58 VA INSTAR mIBI Stream Health High



N/A

Rare Fish (HUC8)

Rare Mussel (HUC8)

Rare Crayfish (HUC8)

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PA IBI Stream Health