## **Chesapeake Fish Passage Prioritization - Dam Fact Sheet**

CFPPP Unique ID: VA\_97 RUFFINS POND DAM E.H. Mills Memorial Dam

Bay-wide Diadromous Tier 1
Bay-wide Resident Tier 1
Bay-wide Brook Trout Tier N/A

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







	Land	cover	
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		



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	Network, Sys	stem 7	Type and Condi	tion		
Functional Upstream Network	(mi) 112.29	mi) 112.29		Upstream Size Class Gain (#)		
Total Functional Network (mi)	3441.3		# Downsteam Natural Bar		ers	0
Absolute Gain (mi)	112.29		# Downstream Hydropower		r Dams	0
# Size Classes in Total Networ	k 5		# Downstream Dams with P		assage	0
# Upstream Network Size Clas	sses 2		# of Downstream Barriers			0
NFHAP Cumulative Disturband	ce Index			Not Scored / Unav	ailable at th	is scale
Dam is on Conserved Land				No		
% Conserved Land in 100m Buffer of Upstream Network				3.73		
% Conserved Land in 100m Bu	uffer of Downstream Net	work		20.81		
Density of Crossings in Upstre	am Network Watershed	(#/m2	2)	2.21		
Density of Crossings in Downs	tream Network Watersh	ed (#/	/m2)	0.91		
Density of off-channel dams in	n Upstream Network Wat	tershe	ed (#/m2)	0		
Density of off-channel dams in	n Downstream Network \	Water	shed (#/m2)	0		
Daniel Alanifa			mous Fish	win ad Dana	Nama Dani	
Downstream Alewife	Current		Downstream Striped Bass		None Doc	
Downstream Blueback	Current		Downstream A	None Documented		
Downstream American Shad	None Documented		Downstream Sl	None Doci	umented	
Downstream Hickory Shad	None Documented		Downstream American Eel Curre			
Presence of 1 or More Downs	stream Anadromous Spec	cies	Current			
# Diadromous Species Downs	tream (incl eel)		3			
Reside	ent Fish			Strea	m Health	
Barrier is in EBTJV BKT Catchment No		No	Chesapea	Chesapeake Bay Program Stream Health GOOD		
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBS	MD MBSS Benthic IBI Stream Health N/A		
Barrier Blocks an EBTJV Catchment Yes		Yes	MD MBS	MD MBSS Fish IBI Stream Health		N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber) No		No	MD MBS			N/A
Native Fish Species Richness (HUC8) 58		58	VA INSTA	VA INSTAR mIBI Stream Health		High
		2				N/A
		2		-		
# Rare Crayfish (HUC8)		0				
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