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

CFPPP Unique ID: VA\_77 NEALS DAM

Bay-wide Diadromous Tier 15
Bay-wide Resident Tier 13

Bay-wide Brook Trout Tier N/A

NID ID VA13705

State ID 77

River Name

Dam Height (ft) 20

Dam Type Gravity
Latitude 38.1753

Longitude -78.1924

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Blue Run

HUC 10 Blue Run-Rapidan River

HUC 8 Rapidan-Upper Rappahannock

HUC 6 Lower Chesapeake
HUC 4 Lower Chesapeake







Landcover							
NLCD (2011)		Chesapeake Conservancy (2016)					
% Impervious Surface in Upstream Drainage Area 0.39		% Tree Cover in ARA of Upstream Network					
% Natural Cover in Upstream Drainage Area	44.16	% Tree Cover in ARA of Downstream Network	59.12				
% Forested in Upstream Drainage Area 41.99		% Herbaceaous Cover in ARA of Upstream Network					
% Agriculture in Upstream Drainage Area 49.85		% Herbaceaous Cover in ARA of Downstream Network					
% Natural Cover in ARA of Upstream Network	41.73	% Barren Cover in ARA of Upstream Network	0				
% Natural Cover in ARA of Downstream Network	45.08	% Barren Cover in ARA of Downstream Network	0.35				
% Forest Cover in ARA of Upstream Network	7.09	% Road Impervious in ARA of Upstream Network	0				
% Forest Cover in ARA of Downstream Network	42.26	% Road Impervious in ARA of Downstream Network	0.72				
% Agricultral Cover in ARA of Upstream Network	47.24	% Other Impervious in ARA of Upstream Network	0				
% Agricultral Cover in ARA of Downstream Network	49.71	% Other Impervious in ARA of Downstream Network	0.61				
% Impervious Surf in ARA of Upstream Network	0.92						
% Impervious Surf in ARA of Downstream Network	0.5						



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CITTI Ollique ID. VA_77	INLALS DAIVI					
	Network, Sys	tem T	ype and Condition			
Functional Upstream Network (mi) 1.18			Upstream Size Class Gain (#)		0	
Total Functional Network (mi) 521.66			# Downsteam Natural Barriers		0	
Absolute Gain (mi) 1.18			# Downstream Hydropower Dams		0	
# Size Classes in Total Network 4			# Downstream Dams with Passage		1	
# Upstream Network Size Classes 1			# of Downstream Barriers		2	
NFHAP Cumulative Disturband	e Index		Very High			
Dam is on Conserved Land			Yes			
% Conserved Land in 100m Buffer of Upstream Network			100			
% Conserved Land in 100m Buffer of Downstream Network			33.18			
Density of Crossings in Upstre	am Network Watershed (	(#/m2	3.56			
Density of Crossings in Downs	tream Network Watershe	ed (#/	m2) 0.88			
Density of off-channel dams in	n Upstream Network Wat	ershe	d (#/m2) 0			
Density of off-channel dams in	n Downstream Network V	Vaters	shed (#/m2) 0			
	Di	adron	nous Fish			
Downstream Alewife	Historical	١	Downstream Striped Bass No		None Documented	
Downstream Blueback	Historical	1	Downstream Atlantic Sturgeon	None Doo	None Documented	
Downstream American Shad	None Documented	1	Downstream Shortnose Sturgeon None		cumented	
Downstream Hickory Shad	None Documented	ı	Downstream American Eel	Current		
Presence of 1 or More Downs	tream Anadromous Spec	ies I	Historical			
# Diadromous Species Downs	tream (incl eel)	<u></u>	1			
Resident Fish			Strea	Stream Health		
Barrier is in EBTJV BKT Catchment No		No	Chesapeake Bay Program St	Chesapeake Bay Program Stream Health POOR		
Barrier is in Modeled BKT Catchment (DeWeber) No		No	MD MBSS Benthic IBI Stream	MD MBSS Benthic IBI Stream Health		
Barrier Blocks an EBTJV Catchment Yes		Yes	MD MBSS Fish IBI Stream He	MD MBSS Fish IBI Stream Health		
Barrier Blocks a Modeled BKT Catchment (DeWeber) No		No	MD MBSS Combined IBI Stre	MD MBSS Combined IBI Stream Health		
Native Fish Species Richness (HUC8) 56		56	VA INSTAR mIBI Stream Hea	VA INSTAR mIBI Stream Health		
# Rare Fish (HUC8)		1	PA IBI Stream Health	PA IBI Stream Health		
•		3			N/A	
# Rare Crayfish (HUC8) 0		)				

