Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_420 NELSON DAM

Bay-wide Diadromous Tier 6
Bay-wide Resident Tier 3

Bay-wide Brook Trout Tier N/A

NID ID VA12501

State ID 420

River Name

Dam Height (ft) 34

Dam Type Earth
Latitude 37.6935

Latitude 37.6935 Longitude -78.8818

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Rucker Run

HUC 10 Lower Tye River

HUC 8 Middle James-Buffalo

HUC 6 James

HUC 4 Lower Chesapeake







Landcover				
NLCD (2011)		Chesapeake Conservancy (2016)		
% Impervious Surface in Upstream Drainage Area	2.02	% Tree Cover in ARA of Upstream Network	58.79	
% Natural Cover in Upstream Drainage Area	67.24	% Tree Cover in ARA of Downstream Network	79.1	
% Forested in Upstream Drainage Area	47.83	% Herbaceaous Cover in ARA of Upstream Network	5.42	
% Agriculture in Upstream Drainage Area	18.03	% Herbaceaous Cover in ARA of Downstream Network	15.73	
% Natural Cover in ARA of Upstream Network	83.85	% Barren Cover in ARA of Upstream Network	0	
% Natural Cover in ARA of Downstream Network	79.33	% Barren Cover in ARA of Downstream Network	0.1	
% Forest Cover in ARA of Upstream Network	46.97	% Road Impervious in ARA of Upstream Network	1	
% Forest Cover in ARA of Downstream Network	65.28	% Road Impervious in ARA of Downstream Network	0.6	
% Agricultral Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	1.38	
% Agricultral Cover in ARA of Downstream Network	16.03	% Other Impervious in ARA of Downstream Network	0.78	
% Impervious Surf in ARA of Upstream Network	2.83			
% Impervious Surf in ARA of Downstream Network	0.71			



Chesapeake Fish Passage Prioritization - Dam Fact Sheet CFPPP Unique ID: VA 420 **NELSON DAM** Network, System Type and Condition Functional Upstream Network (mi) 2.74 Upstream Size Class Gain (#) 0 Total Functional Network (mi) 5433.76 # Downsteam Natural Barriers 0 Absolute Gain (mi) 2.74 # Downstream Hydropower Dams 2 # Size Classes in Total Network 6 # Downstream Dams with Passage # Upstream Network Size Classes # of Downstream Barriers 1 NEHAP Cumulative Disturbance Index Moderate Dam is on Conserved Land Nο % Conserved Land in 100m Buffer of Upstream Network 11.93 % Conserved Land in 100m Buffer of Downstream Network 11.23 Density of Crossings in Upstream Network Watershed (#/m2) 0.9 Density of Crossings in Downstream Network Watershed (#/m2) 0.84 Density of off-channel dams in Upstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) Λ Diadromous Fish Downstream Alewife **Potential Current Downstream Striped Bass** None Documented Downstream Blueback Potential Current Downstream Atlantic Sturgeon None Documented Downstream American Shad None Documented Downstream Shortnose Sturgeon None Documented Downstream Hickory Shad Downstream American Eel Current None Documented One or More DS Anadromous Species Potential Curre # Diadromous Sn Dostrm (incl eel)

One of More D3 Anadromous Species Potential Curr	е # Діс	adromous sp Dristriii (inci eei) 1	
Resident Fish and Rare Species		Stream Health	
Barrier is in EBTJV BKT Catchment	No	Chesapeake Bay Program Stream Health	FAIR
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)	50	VA INSTAR mIBI Stream Health	High
# Rare Fish (HUC8)	0	PA IBI Stream Health	N/A
# Rare Mussel (HUC8)	4		
# Rare Crayfish (HUC8)	0		
Globally rare or fed listed fish/mussel sp HUC12	No	Rare fish or mussel sp in HUC12	No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	Yes	Rare fish or mussel in upstream or downstream functional network	Yes

