Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_337 WILLIS RIVER DAM #3

Bay-wide Diadromous Tier 7
Bay-wide Resident Tier 3

Bay-wide Brook Trout Tier N/A
NID ID VA02903

State ID 337

River Name Bishop Creek

Dam Height (ft) 43.8

Dam Type Earth

Latitude 37.4265

Passage Facilities None Documented

Passage Year N/A

Longitude

Size Class 1b: Creek (3.861 - 38.61 sq mi)

-78.4824

HUC 12 Bishop Creek-Willis River

HUC 10 Upper Willis River
HUC 8 Middle James-Willis

HUC 6 James

HUC 4 Lower Chesapeake







Landcover								
NLCD (2011)		Chesapeake Conservancy (2016)						
% Impervious Surface in Upstream Drainage Area	0.11	% Tree Cover in ARA of Upstream Network	85.62					
% Natural Cover in Upstream Drainage Area	80.91	% Tree Cover in ARA of Downstream Network	88.09					
% Forested in Upstream Drainage Area	62.29	% Herbaceaous Cover in ARA of Upstream Network	11.56					
% Agriculture in Upstream Drainage Area	17.56	% Herbaceaous Cover in ARA of Downstream Network	10.47					
% Natural Cover in ARA of Upstream Network	88.75	% Barren Cover in ARA of Upstream Network	0					
% Natural Cover in ARA of Downstream Network	89.75	% Barren Cover in ARA of Downstream Network	0.31					
% Forest Cover in ARA of Upstream Network	65.46	% Road Impervious in ARA of Upstream Network	0.08					
% Forest Cover in ARA of Downstream Network	59.92	% Road Impervious in ARA of Downstream Network	0.24					
% Agricultral Cover in ARA of Upstream Network	11.2	% Other Impervious in ARA of Upstream Network	0.03					
% Agricultral Cover in ARA of Downstream Network	9.36	% Other Impervious in ARA of Downstream Network	0.11					
% Impervious Surf in ARA of Upstream Network	0							
% Impervious Surf in ARA of Downstream Network	0.07							



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	Network, Sy	ystem	Туре	and Condition			
Functional Upstream Network (mi) 9.37			Upstream Size Class Gain (#)			0	
Total Functional Network (mi) 173.9			# Downsteam Natural Barriers		0		
Absolute Gain (mi) 9.37			# Downstream Hydropower Dams			2	
# Size Classes in Total Networ	k 3			# Downstream Dams with F	Passage	4	
# Upstream Network Size Clas	sses 2			# of Downstream Barriers		5	
NFHAP Cumulative Disturband	ce Index			Moderate			
Dam is on Conserved Land				No			
% Conserved Land in 100m Buffer of Upstream Netwo				0			
% Conserved Land in 100m Bu	iffer of Downstream Ne	twork		3.36			
Density of Crossings in Upstream Network Watershed (#/			12)	0.1			
Density of Crossings in Downs	tream Network Waters	hed (#	‡/m2)	0.5			
Density of off-channel dams in	າ Upstream Network W	atersh	ned (#,	/m2) 0			
Density of off-channel dams in	າ Downstream Network	Wate	ershed	(#/m2) 0			
		Diadro	omous	Fish			
Downstream Alewife	Historical	Historical		Downstream Striped Bass None		Documented	
Downstream Blueback	Historical	Historical		Downstream Atlantic Sturgeon None D		cumented	
Downstream American Shad	None Documented		Dow	nstream Shortnose Sturgeon	None Doc	cumented	
Downstream Hickory Shad	None Documented		Dow	nstream American Eel	Current		
Presence of 1 or More Downs	stream Anadromous Spe	ecies	Histo	prical			
# Diadromous Species Downs	tream (incl eel)		1				
Reside	ent Fish			Strea	m Health		
		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		No		MD MBSS Fish IBI Stream Health		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber)				MD MBSS Combined IBI Stream Health		N/A	
		51		VA INSTAR mIBI Stream Health		Moderate	
		0		PA IBI Stream Health		N/A	
# Rare Mussel (HUC8)		3		r A IDI SULCAIII FICAILII		IN/A	
, ,							
# Rare Crayfish (HUC8)		0					

