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

CFPPP Unique ID: VA\_335 WILLIS RIVER DAM #1A

Diadromous Tier 7

Brook Trout Tier N/A

Resident Tier 3

NID ID VA02901

State ID 335

River Name Willis River

Dam Height (ft) 41.7

Dam Type Earth

Latitude

Longitude -78.5448

Passage Facilities None Documented

37.44

Passage Year N/A

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

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	0.08	% Tree Cover in ARA of Upstream Network	90.59					
% Natural Cover in Upstream Drainage Area	83.78	% Tree Cover in ARA of Downstream Network	88.09					
% Forested in Upstream Drainage Area	67.91	% Herbaceaous Cover in ARA of Upstream Network	7.68					
% Agriculture in Upstream Drainage Area	14.53	% Herbaceaous Cover in ARA of Downstream Network	10.47					
% Natural Cover in ARA of Upstream Network	91.33	% 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	69.73	% Road Impervious in ARA of Upstream Network	0.16					
% 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	7.91	% Other Impervious in ARA of Upstream Network	0.03					
% Agricultral Cover in ARA of Downstream Networl	9.36	% Other Impervious in ARA of Downstream Network	0.11					
% Impervious Surf in ARA of Upstream Network	0.02							
% Impervious Surf in ARA of Downstream Network	0.07							



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	Network, Sy	/stem	Type and Condi	tion			
unctional Upstream Network (mi) 24.2		Upstream Size Class Gain (#)			0		
Total Functional Network (mi) 188.73		# Downsteam Natural Barriers		ers	0		
Absolute Gain (mi)	24.2	# Downstream Hydrop		stream Hydropowe	Dams	2	
# Size Classes in Total Networ	k 3		# Down	# Downstream Dams with Passage		4	
# Upstream Network Size Clas	sses 2	# of Downstre		wnstream Barriers		5	
NFHAP Cumulative Disturband	ce Index			Very High			
Dam is on Conserved Land				No			
% Conserved Land in 100m Buffer of Upstream Network				38.88			
% Conserved Land in 100m Bu	ıffer of Downstream Net	twork	(	3.36			
Density of Crossings in Upstream Network Watershed (#/m			12)	0.52			
Density of Crossings in Downs	tream Network Watersh	hed (#	‡/m2)	0.5			
Density of off-channel dams in	າ Upstream Network Wa	atersh	ned (#/m2)	0			
Density of off-channel dams in	n Downstream Network	Wate	ershed (#/m2)	0			
		Diadro	omous Fish				
Downstream Alewife	Historical		Downstream Striped Bass		None Documented		
Downstream Blueback	Historical		Downstream Atlantic Sturgeon		None Documented		
Downstream American Shad	None Documented		Downstream Shortnose Sturgeon		None Documented		
Downstream Hickory Shad	None Documented		Downstream A	Downstream American Eel		Current	
Presence of 1 or More Downs	stream Anadromous Spe	ecies	Historical				
# Diadromous Species Downs	tream (incl eel)		1				
Reside	ent Fish			Strea	m Health		
Barrier is in EBTJV BKT Catchment N		No	Chesapea	Chesapeake Bay Program Stream Health FAIR			
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBSS	MD MBSS Benthic IBI Stream Health N/A		N/A	
Barrier Blocks an EBTJV Catchment N		No	MD MBSS	MD MBSS Fish IBI Stream Health		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber)		No	MD MBSS	MD MBSS Combined IBI Stream Health		N/A	
Native Fish Species Richness (HUC8)		51	VA INSTA	VA INSTAR mIBI Stream Health		Moderate	
# Rare Fish (HUC8)		0	PA IBI Str	eam Health		N/A	
# Rare Mussel (HUC8)		3					
# Rare Crayfish (HUC8)		0					
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