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

CFPPP Unique ID: VA\_338 WILLIS RIVER DAM #4

Bay-wide Diadromous Tier 7
Bay-wide Resident Tier 4

Bay-wide Brook Trout Tier N/A

NID ID VA02904

State ID 338

River Name Cattail Creek

Dam Height (ft) 43.6

Dam Type Earth

Latitude 37.4415

Longitude -78.4167

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Whispering 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	86.18					
% Natural Cover in Upstream Drainage Area	74.63	% Tree Cover in ARA of Downstream Network	88.09					
% Forested in Upstream Drainage Area	70.14	% Herbaceaous Cover in ARA of Upstream Network	9.86					
% Agriculture in Upstream Drainage Area	23.49	% Herbaceaous Cover in ARA of Downstream Network	10.47					
% Natural Cover in ARA of Upstream Network	87.88	% 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	78.3	% Road Impervious in ARA of Upstream Network	0.09					
% 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	11.89	% Other Impervious in ARA of Upstream Network	0.05					
% 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	0.01							
% Impervious Surf in ARA of Downstream Network	0.07							



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	Network, Sy	stem	Type and Cond	dition			
Functional Upstream Network (mi) 9.58			Upstream Size Class Gain (#)			0	
Total Functional Network (mi) 174.11			# Downsteam Natural Barriers		ers	0	
Absolute Gain (mi)	9.58		# Dow	# Downstream Hydropower Dams		2	
# Size Classes in Total Networ	k 3		# Downstream Dams with Passage		assage	4	
# Upstream Network Size Clas	am Network Size Classes 2 # of [		ownstream Barriers		5		
NFHAP Cumulative Disturband	ce Index			High			
Dam is on Conserved Land				No			
% Conserved Land in 100m Bu	iffer of Upstream Netwo	rk		0			
% Conserved Land in 100m Bu	iffer of Downstream Net	work		3.36			
Density of Crossings in Upstream Network Watershed (#/m			2)	0.33			
Density of Crossings in Downs	tream Network Watersh	ned (#	<sup>2</sup> /m2)	0.5			
Density of off-channel dams in	n Upstream Network Wa	itersh	ed (#/m2)	0			
Density of off-channel dams in	n Downstream Network	Wate	rshed (#/m2)	0			
		iadro	mous Fish				
Downstream Alewife	Historical		Downstream Striped Bass None		None Doc	e Documented	
Downstream Blueback	Historical		Downstream .	Downstream Atlantic Sturgeon Non-		ne Documented	
Downstream American Shad	None Documented		Downstream :	Shortnose Sturgeon	None Doc	umented	
Downstream Hickory Shad	None Documented		Downstream .	American Eel	Current		
Presence of 1 or More Downs	stream Anadromous Spe	cies	Historical				
# Diadromous Species Downs	tream (incl eel)		1				
Resident Fish			Stream Health				
Barrier is in EBTJV BKT Catchment No		No	Chesape	Chesapeake Bay Program Stream Health FAIR			
Barrier is in Modeled BKT Catchment (DeWeber) No.		No	MD MB	MD MBSS Benthic IBI Stream Health		N/A	
		No	MD MB	MD MBSS Fish IBI Stream Health		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber) No		No	MD MB	MD MBSS Combined IBI Stream Health		N/A	
Native Fish Species Richness (HUC8) 51				VA INSTAR mIBI Stream Health		Moderate	
# Rare Fish (HUC8) 0		0	PA IBI Si	PA IBI Stream Health		N/A	
•		3				, -	
# Rare Crayfish (HUC8)		0					

