Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_352 WILLIS RIVER DAM #2

Bay-wide Diadromous Tier 7
Bay-wide Resident Tier 3
Bay-wide Brook Trout Tier N/A

NID ID VA02919

State ID 352

River Name Tongue Quarter Creek

Dam Height (ft) 46.3

Dam Type Earth

Latitude 37.4551

Longitude -78.4848

Passage Facilities None Documented

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	0.2	% Tree Cover in ARA of Upstream Network	94.8				
% Natural Cover in Upstream Drainage Area	88.34	% Tree Cover in ARA of Downstream Network	88.09				
% Forested in Upstream Drainage Area	73.04	% Herbaceaous Cover in ARA of Upstream Network	3.03				
% Agriculture in Upstream Drainage Area	9.19	% Herbaceaous Cover in ARA of Downstream Network	10.47				
% Natural Cover in ARA of Upstream Network	95.93	% 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	72.22	% 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	3.73	% Other Impervious in ARA of Upstream Network	0.02				
% 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	0.04						
% Impervious Surf in ARA of Downstream Network	0.07						



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CITTY Offique ID. VA_332	WILLIS RIVER DA	11VI #Z			
	Network, Sy	stem T	pe and Condition		
unctional Upstream Network (mi) 20.58			Upstream Size Class Gain (#)		0
Total Functional Network (mi) 185.11			# Downsteam Natural Barriers		0
Absolute Gain (mi)	20.58		# Downstream Hydropower Dams		2
# Size Classes in Total Networ	k 3		# Downstream Dams with Passage		4
# Upstream Network Size Classes 2			# of Downstream Barriers		5
NFHAP Cumulative Disturband	ce Index		Low		
Dam is on Conserved Land			No		
% Conserved Land in 100m Buffer of Upstream Netwo		rk	0		
% Conserved Land in 100m Bu	iffer of Downstream Net	work	3.36		
Density of Crossings in Upstream Network Watershed (#/ı		(#/m2)	0.43		
Density of Crossings in Downs	tream Network Watersh	ned (#/r	n2) 0.5		
Density of off-channel dams in	n Upstream Network Wa	tershe	d (#/m2) 0		
Density of off-channel dams in	n Downstream Network	Waters	hed (#/m2) 0		
	D	iadrom	ous Fish		
Downstream Alewife	Historical	[ownstream Striped Bass None Doc		cumented
Downstream Blueback	Historical	[Downstream Atlantic Sturgeon None Doc		cumented
Downstream American Shad	None Documented	[ownstream Shortnose Stu	rgeon None Do	cumented
Downstream Hickory Shad	None Documented	[ownstream American Eel	Current	
Presence of 1 or More Downs	tream Anadromous Spe	cies F	listorical		
# Diadromous Species Downs	tream (incl eel)	1			
Resident Fish			Stream Health		
		No	Chesapeake Bay Prog	Chesapeake Bay Program Stream Health FAIR	
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBSS Benthic IBI	MD MBSS Benthic IBI Stream Health N/A	
Barrier Blocks an EBTJV Catchment		No	MD MBSS Fish IBI Stre	MD MBSS Fish IBI Stream Health	
Barrier Blocks a Modeled BKT Catchment (DeWeber)		No	MD MBSS Combined	MD MBSS Combined IBI Stream Health N	
Native Fish Species Richness (HUC8) 5		51	VA INSTAR mIBI Strea	VA INSTAR mIBI Stream Health	
		0	PA IBI Stream Health		N/A
		3			
# Rare Crayfish (HUC8) 0		0			

