Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_352 WILLIS RIVER DAM #2

Diadromous Tier 7

Brook Trout Tier N/A

Resident Tier 3

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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	Network, Sys	tem Typ	e and Condition		
Functional 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 Clas	sses 2		# of Downstream Barriers		5
NFHAP Cumulative Disturband	ce Index		Low		
Dam is on Conserved Land			No		
% Conserved Land in 100m Buffer of Upstream Network			0		
% Conserved Land in 100m Bu	iffer of Downstream Netv	work	3.36		
Density of Crossings in Upstream Network Watershed (#/m			0.43		
Density of Crossings in Downs	tream Network Watershe	ed (#/m2	2) 0.5		
Density of off-channel dams in	າ Upstream Network Wat	ershed (#/m2) 0		
Density of off-channel dams in	n Downstream Network W	Vatersh	ed (#/m2) 0		
Downstream Alewife	Diadro		mous Fish Downstream Striped Bass None Do		cumented
Downstream Blueback	Historical	Do	wnstream Atlantic Sturgeon	None Doo	cumented
Downstream American Shad	None Documented	Do	wnstream Shortnose Sturgeon	None Doo	cumented
Downstream Hickory Shad	None Documented	Do	wnstream American Eel	Current	
Presence of 1 or More Downs	stream Anadromous Speci	ies His	torical		
# Diadromous Species Downs	tream (incl eel)	1			
Resident Fish			Stream Health		
Barrier is in EBTJV BKT Catchment No		Vo	Chesapeake Bay Program Stream Health FAIR		
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBSS Benthic IBI Stream Health N/A		N/A
Barrier Blocks an EBTJV Catchment No		No	MD MBSS Fish IBI Stream Health		N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber) N		No	MD MBSS Combined IBI Stream Health N		N/A
Native Fish Species Richness (HUC8) 5		51	VA INSTAR mIBI Stream Health		Moderate
# Rare Fish (HUC8))	PA IBI Stream Health		N/A
# Rare Mussel (HUC8)	3	3			
# Rare Crayfish (HUC8)	C)			

