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

CFPPP Unique ID: VA\_342 WILLIS RIVER DAM #6A

Bay-wide Diadromous Tier 8
Bay-wide Resident Tier 6

Bay-wide Brook Trout Tier N/A

NID ID VA02908

State ID 342

River Name Little Willis River

Dam Height (ft) 33.1

Dam Type Earth

Latitude 37.4079

Longitude -78.5101

Passage Facilities None Documented

Passage Year N/A

Size Class 1a: Headwater (0 - 3.861 sq mi)

HUC 12 Little Willis River
HUC 10 Upper Willis River
HUC 8 Middle James-Willis

HUC 6 James

HUC 4 Lower Chesapeake







	Land	cover		
NLCD (2011)		Chesapeake Conservancy (2016)		
% Impervious Surface in Upstream Drainage Area	0.12	% Tree Cover in ARA of Upstream Network	87.7	
% Natural Cover in Upstream Drainage Area	80.91	% Tree Cover in ARA of Downstream Network	74.67	
% Forested in Upstream Drainage Area	64.67	% Herbaceaous Cover in ARA of Upstream Network	7.97	
% Agriculture in Upstream Drainage Area	17.21	% Herbaceaous Cover in ARA of Downstream Network	23.12	
% Natural Cover in ARA of Upstream Network	89.75	% Barren Cover in ARA of Upstream Network	0	
% Natural Cover in ARA of Downstream Network	78.98	% Barren Cover in ARA of Downstream Network	0	
% Forest Cover in ARA of Upstream Network	68.85	% Road Impervious in ARA of Upstream Network	0.18	
% Forest Cover in ARA of Downstream Network	59.65	% Road Impervious in ARA of Downstream Network	0.35	
% Agricultral Cover in ARA of Upstream Network	10.01	% Other Impervious in ARA of Upstream Network	0.3	
% Agricultral Cover in ARA of Downstream Network	19.61	% Other Impervious in ARA of Downstream Network	0.17	
% Impervious Surf in ARA of Upstream Network	0.01			
% Impervious Surf in ARA of Downstream Network	0.08			



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

CFPPP Unique ID: VA\_342 WILLIS RIVER DAM #6A

Absolute Gain (mi) 6.37 # Downstream Hydropower Dams 2 # Size Classes in Total Network 2 # Downstream Dams with Passage 4 # Upstream Network Size Classes 1 # of Downstream Barriers 6 NFHAP Cumulative Disturbance Index Moderate Dam is on Conserved Land No % Conserved Land in 100m Buffer of Upstream Network 0 % Conserved Land in 100m Buffer of Downstream Network 0 Density of Crossings in Upstream Network Watershed (#/m2) 0.13 Density of Crossings in Downstream Network Watershed (#/m2) 0.58 Density of off-channel dams in Upstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0  Diadromous Fish  Downstream Alewife Historical Downstream Striped Bass None Documented Downstream Hickory Shad None Documented Downstream Alantic Sturgeon None Documented Downstream Hickory Shad None Documented Downstream American Sel None Documented Presence of 1 or More Downstream Anadromous Species # Diadromous Species Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) 0  Resident Fish Barrier is in EBTJV BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Fish IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Native Fish Species Richness (HUC8) 51 VA INSTAR mIBI Stream Health N/A # Rare Mussel (HUC8) 0 PA IBI Stream Health N/A								
Total Functional Network (mi) 34.6 # Downsteam Natural Barriers 0 Absolute Gain (mi) 6.37 # Downstream Hydropower Dams 2 # Size Classes in Total Network 2 # Downstream Dams with Passage 4 # Upstream Network Size Classes 1 # of Downstream Barriers 6 NFHAP Cumulative Disturbance Index Moderate Dam is on Conserved Land No % Conserved Land in 100m Buffer of Upstream Network 0 % Conserved Land in 100m Buffer of Downstream Network 0 Density of Crossings in Upstream Network Watershed (#/m2) 0.13 Density of Crossings in Upstream Network Watershed (#/m2) 0.58 Density of off-channel dams in Upstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0  Diadromous Fish Downstream Alewife Historical Downstream Striped Bass None Documented Downstream Hickory Shad None Documented Downstream Alantic Sturgeon None Documented Downstream Hickory Shad None Documented Downstream American Eel None Documenter Presence of 1 or More Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) 0  Resident Fish Barrier is in EBTJV BKT Catchment (DeWeber) No Mative Fish Species Richness (HUC8) 51 VA INSTAR mIBI Stream Health N/A Mative Fish Species Richness (HUC8) 51 VA INSTAR mIBI Stream Health N/A # Rare Mussel (HUC8) 0 PA IBI Stream Health N/A # Rare Mussel (HUC8) 3		Network, S	ystem	Type and C	ondition			
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# Diadromous Species Downstream (incl eel)  Resident Fish  Barrier is in EBTJV BKT Catchment  Barrier is in Modeled BKT Catchment (DeWeber)  Barrier Blocks an EBTJV Catchment  No  MD MBSS Benthic IBI Stream Health  N/A  MD MBSS Fish IBI Stream Health  N/A  MD MBSS Combined IBI Stream Health  N/A  No  No  No  No  No  No  No  No  No  N	Downstream Hickory Shad	None Documented		Downstream American Eel None Docume				
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	# Rare Crayfish (HUC8)		0					

