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

CFPPP Unique ID: VA\_814 Williams Island Z-DAM

	CFPPP Unique ID:	VA_814	Williams Island	
	Bay-wide Diadrom	nous Tier 1		
	Bay-wide Resident	t Tier 8	}	
	Bay-wide Brook Tr	out Tier N/A		
	NID ID	VA76002		
	State ID	814		
	River Name	James River		
	Dam Height (ft)	7		
	Dam Type	Gravity		
	Latitude	37.5586		
	Longitude	-77.5269		
	Passage Facilities	Notch		
	Passage Year	1993		
	Size Class	4: Large River (	3,861 - 9,653 sq	
	HUC 12	Little Westham	Creek-James Riv	
	HUC 10	Tuckahoe Creel	k-James River	
HUC 8 Mie		Middle James-\	liddle James-Willis	
	HUC 6	James		
	HUC 4	Lower Chesape	ake	







Landcover			
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	1.05	% Tree Cover in ARA of Upstream Network	52.75
% Natural Cover in Upstream Drainage Area	79.18	% Tree Cover in ARA of Downstream Network	42.74
% Forested in Upstream Drainage Area	74.08	% Herbaceaous Cover in ARA of Upstream Network	10.83
% Agriculture in Upstream Drainage Area	14.28	% Herbaceaous Cover in ARA of Downstream Network	15.94
% Natural Cover in ARA of Upstream Network	72.4	% Barren Cover in ARA of Upstream Network	0.04
% Natural Cover in ARA of Downstream Network	59.74	% Barren Cover in ARA of Downstream Network	0.09
% Forest Cover in ARA of Upstream Network	24.84	% Road Impervious in ARA of Upstream Network	4.07
% Forest Cover in ARA of Downstream Network	17.98	% Road Impervious in ARA of Downstream Network	6.72
% Agricultral Cover in ARA of Upstream Network	2.2	% Other Impervious in ARA of Upstream Network	4.59
% Agricultral Cover in ARA of Downstream Network	0.31	% Other Impervious in ARA of Downstream Network	6.4
% Impervious Surf in ARA of Upstream Network	4.01		
% Impervious Surf in ARA of Downstream Network	10.67		



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Williams Island Z-DAM CFPPP Unique ID: VA 814 Network, System Type and Condition Functional Upstream Network (mi) Upstream Size Class Gain (#) O 12.67 Total Functional Network (mi) 37.14 # Downsteam Natural Barriers 0 Absolute Gain (mi) 12.67 2 # Downstream Hydropower Dams # Size Classes in Total Network 3 # Downstream Dams with Passage 2 # Upstream Network Size Classes 2 # of Downstream Barriers NEHAP Cumulative Disturbance Index Moderate Dam is on Conserved Land Nο % Conserved Land in 100m Buffer of Upstream Network 0.61 % Conserved Land in 100m Buffer of Downstream Network 9.2 Density of Crossings in Upstream Network Watershed (#/m2) 2.41 Density of Crossings in Downstream Network Watershed (#/m2) 2.94 Density of off-channel dams in Upstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) Λ Diadromous Fish Downstream Alewife Downstream Striped Bass Current Current Downstream Blueback Current Downstream Atlantic Sturgeon None Documented Downstream American Shad None Documented Current Downstream Shortnose Sturgeon Downstream American Eel Downstream Hickory Shad None Documented Current One or More DS Anadromous Species Current # Diadromous Sp Dnstrm (incl eel) Resident Fish and Rare Species Stream Health Barrier is in EBTJV BKT Catchment No Chesapeake Bay Program Stream Health POOR Barrier is in Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A Barrier Blocks an EBTJV Catchment 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 Very High 0 # Rare Fish (HUC8) PA IBI Stream Health N/A # Rare Mussel (HUC8) 3 # Rare Crayfish (HUC8) 0 Globally rare or fed listed fish/mussel sp HUC12 Rare fish or mussel sp in HUC12 Nο Nο Globally rare or fed listed fish/mussel sp in Rare fish or mussel in upstream or No No downstream functional network upstream or downstream functional network

