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	Middle James-\	Villis
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		



Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_814 Williams Island Z-DAM

CFPPP Unique ID: VA_814	Williams Island Z-DA	AIVI	
	Network, Systen	m Type and Condition	
Functional Upstream Network	(mi) 12.67	Upstream Size Class Gain (#) 0	
Total Functional Network (mi)	37.14	# Downsteam Natural Barriers 0	
Absolute Gain (mi)	12.67	# Downstream Hydropower Dams 2	
# Size Classes in Total Network	3	# Downstream Dams with Passage 2	
# Upstream Network Size Clas	ses 2	# of Downstream Barriers 2	
NFHAP Cumulative Disturbanc	e Index	Moderate	
Dam is on Conserved Land		No	
% Conserved Land in 100m Bu	ffer of Upstream Network	0.61	
% Conserved Land in 100m Bu	ffer of Downstream Networ	rk 9.2	
Density of Crossings in Upstream Network Watershed (#/m2) 2.41			
Density of Crossings in Downs	tream Network Watershed ((#/m2) 2.94	
Density of off-channel dams in	Upstream Network Waters	shed (#/m2) 0	
Density of off-channel dams in	Downstream Network Wat	tershed (#/m2) 0	
	Diadr	Iromous Fish	
Downstream Alewife	Current	Downstream Striped Bass Current	
Downstream Blueback Current		Downstream Atlantic Sturgeon None Documented	
Downstream American Shad	Current	Downstream Shortnose Sturgeon None Documented	
Downstream Hickory Shad	None Documented	Downstream American Eel Current	
Presence of 1 or More Downs	tream Anadromous Species	s Current	
# Diadromous Species Downs	tream (incl eel)	5	
Reside	nt Fish	Stream Health	
Barrier is in EBTJV BKT Catchment No		Chesapeake Bay Program Stream Health POOR	
Barrier is in Modeled BKT Catchment (DeWeber) No			
Barrier Blocks an EBTJV Catchment No			
Barrier Blocks a Modeled BKT Catchment (DeWeber) No			
Native Fish Species Richness (HUC8) 51		•	
# Rare Fish (HUC8) 0		PA IBI Stream Health N/A	
# Rare Mussel (HUC8)			
# Rare Crayfish (HUC8)	0		

