Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_406 LAKE POWELL DAM

Bay-wide Diadromous Tier 17
Bay-wide Resident Tier 10
Bay-wide Brook Trout Tier N/A

NID ID VA09512

State ID 406

River Name Mill Creek

Dam Height (ft) 19

Dam Type Earth

Latitude 37.2312

Longitude -76.7464

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Lower Chippokes Creek-James R

HUC 10 Powhatan Creek-James River

HUC 8 Lower James

HUC 6 James

HUC 4 Lower Chesapeake







Landcover								
NLCD (2011)		Chesapeake Conservancy (2016)						
% Impervious Surface in Upstream Drainage Area	12.41	% Tree Cover in ARA of Upstream Network	76.71					
% Natural Cover in Upstream Drainage Area	47.02	% Tree Cover in ARA of Downstream Network	68.21					
% Forested in Upstream Drainage Area	36.96	% Herbaceaous Cover in ARA of Upstream Network	3.02					
% Agriculture in Upstream Drainage Area	1.27	% Herbaceaous Cover in ARA of Downstream Network	12.04					
% Natural Cover in ARA of Upstream Network	87.86	% Barren Cover in ARA of Upstream Network	0					
% Natural Cover in ARA of Downstream Network	73.38	% Barren Cover in ARA of Downstream Network	0.08					
% Forest Cover in ARA of Upstream Network	34.29	% Road Impervious in ARA of Upstream Network	1.01					
% Forest Cover in ARA of Downstream Network	23.89	% Road Impervious in ARA of Downstream Network	2.61					
% Agricultral Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	2.21					
% Agricultral Cover in ARA of Downstream Network	5.37	% Other Impervious in ARA of Downstream Network	3.84					
% Impervious Surf in ARA of Upstream Network	0.75							
% Impervious Surf in ARA of Downstream Network	4.25							



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CITTI Ollique ID. VA_400	LAKE POWELL D	AIVI					
	Network, Sy	/stem	Туре	and Condition			
Functional Upstream Network (mi) 0.14			Upstream Size Class Gain (#)		0		
Total Functional Network (mi) 95.18			# Downsteam Natural Barriers		0		
Absolute Gain (mi)	0.14			# Downstream Hydropower [0	
# Size Classes in Total Networ	k 3		# Downstream Dams with Pa		Passage	0	
# Upstream Network Size Clas	ses 0			# of Downstream Barriers		0	
NFHAP Cumulative Disturband	e Index			Not Scored / Unav	ailable at th	nis scale	
Dam is on Conserved Land				No			
% Conserved Land in 100m Buffer of Upstream Network				0			
% Conserved Land in 100m Bu	iffer of Downstream Ne	twork		22.95			
Density of Crossings in Upstream Network Watershed (#/m			12)	4.81			
Density of Crossings in Downs	tream Network Waters	hed (#	‡/m2)	0.68			
Density of off-channel dams in	n Upstream Network Wa	atersh	ned (#,	/m2) 0			
Density of off-channel dams in	n Downstream Network	Wate	ershed	(#/m2) 0			
	[Diadro	mous	; Fish			
Downstream Alewife	None Documented	e Documented		Downstream Striped Bass		None Documented	
Downstream Blueback	m Blueback None Documented		Dow	Downstream Atlantic Sturgeon None Doc		cumented	
Downstream American Shad	None Documented		Downstream Shortnose Sturgeon None Do		None Doo	cumented	
Downstream Hickory Shad	None Documented		Downstream American Eel Current				
Presence of 1 or More Downs	tream Anadromous Spe	cies	None	e Docume			
# Diadromous Species Downs	tream (incl eel)		1				
Resident Fish			Stream Health				
Barrier is in EBTJV BKT Catchment No		No		Chesapeake Bay Program Stream Health FAIR			
Barrier is in Modeled BKT Catchment (DeWeber) No		No		MD MBSS Benthic IBI Stream Health		N/A	
Barrier Blocks an EBTJV Catchment No		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) 62			VA INSTAR mIBI Stream Health		Very High		
# Rare Fish (HUC8)		2		PA IBI Stream Health		N/A	
		1				-	
		0					

