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

CFPPP Unique ID:	VA_309 PAINES DAM
Diadromous Tier	10
Brook Trout Tier	N/A
Resident Tier	9
NID ID	VA00311
State ID	309
River Name	
Dam Height (ft)	30
Dam Type	Earth
Latitude	38.0947
Longitude	-78.4586
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	South Fork Rivanna River
HUC 10	South Fork Rivanna River
HUC 8	Rivanna
HUC 6	James
HUC 4	Lower Chesapeake



	Land	cover	
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	20.41	% Tree Cover in ARA of Upstream Network	60.6
% Natural Cover in Upstream Drainage Area	34.16	% Tree Cover in ARA of Downstream Network	79.1
% Forested in Upstream Drainage Area	30.84	% Herbaceaous Cover in ARA of Upstream Network	12.51
% Agriculture in Upstream Drainage Area	4.3	% Herbaceaous Cover in ARA of Downstream Network	15.73
% Natural Cover in ARA of Upstream Network	60	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	79.33	% Barren Cover in ARA of Downstream Network	0.1
% Forest Cover in ARA of Upstream Network	35	% Road Impervious in ARA of Upstream Network	3.65
% Forest Cover in ARA of Downstream Network	65.28	% Road Impervious in ARA of Downstream Network	0.6
% Agricultral Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	5.72
% Agricultral Cover in ARA of Downstream Network	16.03	% Other Impervious in ARA of Downstream Network	0.78
% Impervious Surf in ARA of Upstream Network	7.58		
% Impervious Surf in ARA of Downstream Network	0.71		

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CIFFF Offique ID. VA_309	FAINLS DAIVI						
	Network, Sy	/stem	Type and Cond	ition			
Functional Upstream Network (mi) 1.09			Upstream Size Class Gain (#)			0	
Total Functional Network (mi) 5432.11			# Downsteam Natural Barriers			0	
Absolute Gain (mi) 1.09			# Downstream Hydropower Dams			2	
# Size Classes in Total Network 6			# Downstream Dams with Passage			4	
# Upstream Network Size Classes 1			# of Downstream Barriers			4	
NFHAP Cumulative Disturband	ce Index			High			
Dam is on Conserved Land				No			
% Conserved Land in 100m Buffer of Upstream Network		ork		0			
% Conserved Land in 100m Bu	iffer of Downstream Net	twork		11.23			
Density of Crossings in Upstream Network Watershed (#/n			2)	2.92			
Density of Crossings in Downs	tream Network Watersh	ned (#	!/m2)	0.84			
Density of off-channel dams in	n Upstream Network Wa	atersh	red (#/m2)	0			
Density of off-channel dams in	n Downstream Network	Wate	rshed (#/m2)	0			
		Diadro	mous Fish				
Downstream Alewife	Potential Current		Downstream S	Downstream Striped Bass Nor		ne Documented	
Downstream Blueback	Potential Current		Downstream Atlantic Sturgeon None I		None Doc	umented	
Downstream American Shad	None Documented		Downstream S	ownstream Shortnose Sturgeon No		umented	
Downstream Hickory Shad	None Documented		Downstream American Eel Current				
Presence of 1 or More Downs	tream Anadromous Spe	cies	Potential Curre	e			
# Diadromous Species Downs	tream (incl eel)		1				
Resident Fish			Stream Health				
Barrier is in EBTJV BKT Catchment		No	Chesape	Chesapeake Bay Program Stream Health VERY_POO			
Barrier is in Modeled BKT Catchment (DeWeber)		No	MD MBS	MD MBSS Benthic IBI Stream Health N/A		N/A	
Barrier Blocks an EBTJV Catchment		Yes	MD MBS	MD MBSS Fish IBI Stream Health		N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber)		No	MD MBS	MD MBSS Combined IBI Stream Health N/A			
		36	VA INSTA	VA INSTAR mIBI Stream Health			
# Rare Fish (HUC8)		0	PA IBI St	ream Health		N/A	
# Rare Mussel (HUC8)		4				-	
# Rare Crayfish (HUC8)		0					
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