Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_582**   **KINGS POND DAM**

Diadromous Tier	4
Brook Trout Tier	N/A
Resident Tier	6
NID ID	VA08524
State ID	582
River Name	Falling Creek
Dam Height (ft)	22
Dam Type	Gravity
Latitude	37.7773
Longitude	-77.5091
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Cedar Creek-South Anna River
HUC 10	Lower South Anna River
HUC 8	Pamunkey
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.79	% Tree Cover in ARA of Upstream Network	54.02
% Natural Cover in Upstream Drainage Area	43.81	% Tree Cover in ARA of Downstream Network	65.24
% Forested in Upstream Drainage Area	28.25	% Herbaceaous Cover in ARA of Upstream Network	39.81
% Agriculture in Upstream Drainage Area	49.68	% Herbaceaous Cover in ARA of Downstream Network	23.41
% Natural Cover in ARA of Upstream Network	60.46	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	76.09	% Barren Cover in ARA of Downstream Network	0.11
% Forest Cover in ARA of Upstream Network	32.12	% Road Impervious in ARA of Upstream Network	1.5
% Forest Cover in ARA of Downstream Network	32.03	% Road Impervious in ARA of Downstream Network	0.61
% Agricultral Cover in ARA of Upstream Network	29.33	% Other Impervious in ARA of Upstream Network	2.5
% Agricultral Cover in ARA of Downstream Network	19.65	% Other Impervious in ARA of Downstream Network	1.09
% Impervious Surf in ARA of Upstream Network	0.9		
% Impervious Surf in ARA of Downstream Network	0.68		

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

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Network, System Type and Condition

Functional Upstream Network (mi)	4.26	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	1346.39	# Downsteam Natural Barriers	0
Absolute Gain (mi)	4.26	# Downstream Hydropower Dams	0
# Size Classes in Total Network	5	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	0
NFHAP Cumulative Disturbance Index		Very High	
Dam is on Conserved Land		No	
% Conserved Land in 100m Buffer of Upstream Network		10.1	
% Conserved Land in 100m Buffer of Downstream Network		6.63	
Density of Crossings in Upstream Network Watershed (#/m2)		0.68	
Density of Crossings in Downstream Network Watershed (#/m2)		0.59	
Density of off-channel dams in Upstream Network Watershed (#/m2)		0	
Density of off-channel dams in Downstream Network Watershed (#/m2)		0	

Diadromous Fish

Downstream Alewife	Current	Downstream Striped Bass	None Documented
Downstream Blueback	Current	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
Presence of 1 or More Downstream Anadromous Species	Current		
# Diadromous Species Downstream (incl eel)	3		

Resident Fish

Barrier is in EBTJV BKT Catchment	No
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)	56
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	3
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	VERY_POOR
MD MBSS Benthic IBI Stream Health	N/A
MD MBSS Fish IBI Stream Health	N/A
MD MBSS Combined IBI Stream Health	N/A
VA INSTAR mIBI Stream Health	Outstanding
PA IBI Stream Health	N/A

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