

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1092**

SHEPPARD LAKE DAM

Bay-wide Diadromous Tier	20
Bay-wide Resident Tier	13
Bay-wide Brook Trout Tier	N/A
NID ID	VA06907
State ID	1092
River Name	
Dam Height (ft)	35
Dam Type	Gravity
Latitude	39.1692
Longitude	-78.0872
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Sulphur Spring Run-Opequon Cr
HUC 10	Opequon Creek
HUC 8	Conococheague-Opequon
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	16.56	% Tree Cover in ARA of Upstream Network	28.42
% Natural Cover in Upstream Drainage Area	27.2	% Tree Cover in ARA of Downstream Network	41.38
% Forested in Upstream Drainage Area	19.75	% Herbaceous Cover in ARA of Upstream Network	47.97
% Agriculture in Upstream Drainage Area	13.26	% Herbaceous Cover in ARA of Downstream Network	48.3
% Natural Cover in ARA of Upstream Network	32.31	% Barren Cover in ARA of Upstream Network	1.83
% Natural Cover in ARA of Downstream Network	37.35	% Barren Cover in ARA of Downstream Network	0.43
% Forest Cover in ARA of Upstream Network	21.68	% Road Impervious in ARA of Upstream Network	8.29
% Forest Cover in ARA of Downstream Network	32.12	% Road Impervious in ARA of Downstream Network	2.17
% Agricultural Cover in ARA of Upstream Network	9.34	% Other Impervious in ARA of Upstream Network	10.55
% Agricultural Cover in ARA of Downstream Network	46.35	% Other Impervious in ARA of Downstream Network	4.7
% Impervious Surf in ARA of Upstream Network	15.33		
% Impervious Surf in ARA of Downstream Network	4.38		

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)	4.45	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	601.44	# Downstream Natural Barriers	1
Absolute Gain (mi)	4.45	# Downstream Hydropower Dams	1
# Size Classes in Total Network	5	# Downstream Dams with Passage	1
# Upstream Network Size Classes	1	# of Downstream Barriers	4
NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0		
% Conserved Land in 100m Buffer of Downstream Network	3.98		
Density of Crossings in Upstream Network Watershed (#/m2)	2.06		
Density of Crossings in Downstream Network Watershed (#/m2)	1.14		
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	None Documented	Downstream Striped Bass	None Documented
Downstream Blueback	None Documented	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	None Documented		
# Diadromous Species Downstream (incl eel)	1		

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)	42
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	5
# 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	High
PA IBI Stream Health	N/A

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf