

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_1117**

**SILVER LAKE DAM**

Bay-wide Diadromous Tier	20
Bay-wide Resident Tier	18
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	1117
River Name	
Dam Height (ft)	17
Dam Type	Gravity
Latitude	38.4229
Longitude	-78.9403
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Cooks Creek
HUC 10	Lower North River
HUC 8	South Fork Shenandoah
HUC 6	Potomac
HUC 4	Potomac



### Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	4.38	% Tree Cover in ARA of Upstream Network	1.74
% Natural Cover in Upstream Drainage Area	18.43	% Tree Cover in ARA of Downstream Network	46.52
% Forested in Upstream Drainage Area	15.66	% Herbaceous Cover in ARA of Upstream Network	55.08
% Agriculture in Upstream Drainage Area	69.28	% Herbaceous Cover in ARA of Downstream Network	44.63
% Natural Cover in ARA of Upstream Network	16.31	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	40.71	% Barren Cover in ARA of Downstream Network	0.19
% Forest Cover in ARA of Upstream Network	0	% Road Impervious in ARA of Upstream Network	6.3
% Forest Cover in ARA of Downstream Network	38.31	% Road Impervious in ARA of Downstream Network	2.26
% Agricultural Cover in ARA of Upstream Network	50.35	% Other Impervious in ARA of Upstream Network	5.43
% Agricultural Cover in ARA of Downstream Network	42.34	% Other Impervious in ARA of Downstream Network	4.74
% Impervious Surf in ARA of Upstream Network	15.6		
% Impervious Surf in ARA of Downstream Network	4.76		

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric\\_Glossary.pdf](http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf)

# Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_1117**

**SILVER LAKE DAM**

## Network, System Type and Condition

Functional Upstream Network (mi)	0.11	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	1389.34	# Downstream Natural Barriers	2
Absolute Gain (mi)	0.11	# Downstream Hydropower Dams	4
# Size Classes in Total Network	5	# Downstream Dams with Passage	3
# Upstream Network Size Classes	0	# of Downstream Barriers	8
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0		
% Conserved Land in 100m Buffer of Downstream Network	20.2		
Density of Crossings in Upstream Network Watershed (#/m2)	0		
Density of Crossings in Downstream Network Watershed (#/m2)	1.71		
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	None Documented
Presence of 1 or More Downstream Anadromous Species	None Documented		
# Diadromous Species Downstream (incl eel)	0		

## Resident Fish

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes
Native Fish Species Richness (HUC8)	35
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	0
# 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	Moderate
PA IBI Stream Health	N/A

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric\\_Glossary.pdf](http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf)