

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1257**

SILVER LAKE DAM

| | |
|--------------------|---------------------------------|
| Diadromous Tier | 12 |
| Brook Trout Tier | N/A |
| Resident Tier | 5 |
| NID ID | VA15312 |
| State ID | 1257 |
| River Name | Little Bull Run |
| Dam Height (ft) | 27 |
| Dam Type | Gravity |
| Latitude | 38.8434 |
| Longitude | -77.6635 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12 | Little Bull Run |
| HUC 10 | Bull Run |
| HUC 8 | Middle Potomac-Anacostia-Occ |
| HUC 6 | Potomac |
| HUC 4 | Potomac |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 0.44 | % Tree Cover in ARA of Upstream Network | 80.88 |
| % Natural Cover in Upstream Drainage Area | 80.18 | % Tree Cover in ARA of Downstream Network | 61.29 |
| % Forested in Upstream Drainage Area | 63.9 | % Herbaceous Cover in ARA of Upstream Network | 11.86 |
| % Agriculture in Upstream Drainage Area | 12.91 | % Herbaceous Cover in ARA of Downstream Network | 22.6 |
| % Natural Cover in ARA of Upstream Network | 81.25 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 57.51 | % Barren Cover in ARA of Downstream Network | 0.58 |
| % Forest Cover in ARA of Upstream Network | 50.16 | % Road Impervious in ARA of Upstream Network | 1.55 |
| % Forest Cover in ARA of Downstream Network | 41.43 | % Road Impervious in ARA of Downstream Network | 4.09 |
| % Agricultural Cover in ARA of Upstream Network | 10.91 | % Other Impervious in ARA of Upstream Network | 0.54 |
| % Agricultural Cover in ARA of Downstream Network | 9.25 | % Other Impervious in ARA of Downstream Network | 7.53 |
| % Impervious Surf in ARA of Upstream Network | 0.28 | | |
| % Impervious Surf in ARA of Downstream Network | 9.69 | | |

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) | 4.16 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 591.83 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 4.16 | # Downstream Hydropower Dams | 2 |
| # Size Classes in Total Network | 4 | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes | 1 | # of Downstream Barriers | 2 |
| NFHAP Cumulative Disturbance Index | Moderate | | |
| Dam is on Conserved Land | Yes | | |
| % Conserved Land in 100m Buffer of Upstream Network | 33.75 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 13.07 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 1.27 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 1.62 | | |
| 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 | Historical | Downstream Striped Bass | None Documented |
| Downstream Blueback | Historical | 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 | Historical | | |
| # 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 | No |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | No |
| Native Fish Species Richness (HUC8) | 62 |
| # Rare Fish (HUC8) | 1 |
| # Rare Mussel (HUC8) | 5 |
| # Rare Crayfish (HUC8) | 0 |

Stream Health

| | |
|--------------------------------------|-----------|
| Chesapeake Bay Program Stream Health | 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 | Very High |
| PA IBI Stream Health | N/A |

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