

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1189**

LAKE ANNE DAM

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 16 |
| Bay-wide Resident Tier | 13 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | |
| State ID | 1189 |
| River Name | |
| Dam Height (ft) | 15 |
| Dam Type | Gravity |
| Latitude | 38.7495 |
| Longitude | -77.7009 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12 | Catletts Branch-Broad Run |
| HUC 10 | Broad 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 | 1.53 | % Tree Cover in ARA of Upstream Network | 40.77 |
| % Natural Cover in Upstream Drainage Area | 37.35 | % Tree Cover in ARA of Downstream Network | 56.04 |
| % Forested in Upstream Drainage Area | 27.5 | % Herbaceous Cover in ARA of Upstream Network | 31.55 |
| % Agriculture in Upstream Drainage Area | 34.2 | % Herbaceous Cover in ARA of Downstream Network | 30.55 |
| % Natural Cover in ARA of Upstream Network | 37.71 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 48.37 | % Barren Cover in ARA of Downstream Network | 0 |
| % Forest Cover in ARA of Upstream Network | 7.43 | % Road Impervious in ARA of Upstream Network | 1.48 |
| % Forest Cover in ARA of Downstream Network | 25.58 | % Road Impervious in ARA of Downstream Network | 2.02 |
| % Agricultural Cover in ARA of Upstream Network | 48 | % Other Impervious in ARA of Upstream Network | 2.16 |
| % Agricultural Cover in ARA of Downstream Network | 24.62 | % Other Impervious in ARA of Downstream Network | 2.11 |
| % Impervious Surf in ARA of Upstream Network | 1.36 | | |
| % Impervious Surf in ARA of Downstream Network | 2.13 | | |

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) | 0.79 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 14.6 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 0.79 | # Downstream Hydropower Dams | 3 |
| # Size Classes in Total Network | 2 | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes | 1 | # of Downstream Barriers | 6 |
| NFHAP Cumulative Disturbance Index | High | | |
| Dam is on Conserved Land | No | | |
| % Conserved Land in 100m Buffer of Upstream Network | 0 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 2.87 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 0 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 2.3 | | |
| 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 | Moderate |
| 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