

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_35-008**

CHAPMAN LAKE

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 15 |
| Bay-wide Resident Tier | 9 |
| Bay-wide Brook Trout Tier | 14 |
| NID ID | |
| State ID | 35-008 |
| River Name | |
| Dam Height (ft) | 5 |
| Dam Type | Earth |
| Latitude | 41.5479 |
| Longitude | -75.5943 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12 | Upper South Branch Tunkhanno |
| HUC 10 | South Branch Tunkhannock Cree |
| HUC 8 | Upper Susquehanna-Tunkhanno |
| HUC 6 | Upper Susquehanna |
| HUC 4 | Susquehanna |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 5.13 | % Tree Cover in ARA of Upstream Network | 23.19 |
| % Natural Cover in Upstream Drainage Area | 50.22 | % Tree Cover in ARA of Downstream Network | 50.56 |
| % Forested in Upstream Drainage Area | 18.34 | % Herbaceous Cover in ARA of Upstream Network | 15.91 |
| % Agriculture in Upstream Drainage Area | 25.45 | % Herbaceous Cover in ARA of Downstream Network | 40.36 |
| % Natural Cover in ARA of Upstream Network | 82.2 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 66.6 | % Barren Cover in ARA of Downstream Network | 0.06 |
| % Forest Cover in ARA of Upstream Network | 21.29 | % Road Impervious in ARA of Upstream Network | 0.4 |
| % Forest Cover in ARA of Downstream Network | 39.63 | % Road Impervious in ARA of Downstream Network | 1.52 |
| % Agricultural Cover in ARA of Upstream Network | 9.37 | % Other Impervious in ARA of Upstream Network | 2.52 |
| % Agricultural Cover in ARA of Downstream Network | 22.4 | % Other Impervious in ARA of Downstream Network | 1.7 |
| % Impervious Surf in ARA of Upstream Network | 1.64 | | |
| % Impervious Surf in ARA of Downstream Network | 1.85 | | |

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) | 0.64 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 69.61 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 0.64 | # Downstream Hydropower Dams | 4 |
| # Size Classes in Total Network | 3 | # Downstream Dams with Passage | 5 |
| # Upstream Network Size Classes | 1 | # of Downstream Barriers | 7 |
| NFHAP Cumulative Disturbance Index | High | | |
| Dam is on Conserved Land | Yes | | |
| % Conserved Land in 100m Buffer of Upstream Network | 87.34 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 9.13 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 0 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 1.32 | | |
| 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) | Yes |
| Barrier Blocks an EBTJV Catchment | Yes |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | No |
| Native Fish Species Richness (HUC8) | 34 |
| # Rare Fish (HUC8) | 1 |
| # Rare Mussel (HUC8) | 2 |
| # Rare Crayfish (HUC8) | 0 |

Stream Health

| | |
|--------------------------------------|------|
| Chesapeake Bay Program Stream Health | FAIR |
| 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 | N/A |
| PA IBI Stream Health | Poor |

Metric descriptions can be found at:

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