

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_808**

ABUTMENT DAM

| | |
|---------------------------|-------------------------------|
| Bay-wide Diadromous Tier | 2 |
| Bay-wide Resident Tier | 5 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | |
| State ID | 808 |
| River Name | Appomattox River |
| Dam Height (ft) | 0 |
| Dam Type | Gravity |
| Latitude | 37.2215 |
| Longitude | -77.5059 |
| Passage Facilities | Denil |
| Passage Year | 2003 |
| Size Class | 3b: Medium Mainstem River (1, |
| HUC 12 | Oldtown Creek-Appomattox Riv |
| HUC 10 | Ashton Creek-Appomattox River |
| HUC 8 | Appomattox |
| HUC 6 | James |
| HUC 4 | Lower Chesapeake |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 0.55 | % Tree Cover in ARA of Upstream Network | 74.57 |
| % Natural Cover in Upstream Drainage Area | 78.2 | % Tree Cover in ARA of Downstream Network | 60.3 |
| % Forested in Upstream Drainage Area | 62.52 | % Herbaceous Cover in ARA of Upstream Network | 9.99 |
| % Agriculture in Upstream Drainage Area | 17.95 | % Herbaceous Cover in ARA of Downstream Network | 23.98 |
| % Natural Cover in ARA of Upstream Network | 86.42 | % Barren Cover in ARA of Upstream Network | 2.2 |
| % Natural Cover in ARA of Downstream Network | 61.56 | % Barren Cover in ARA of Downstream Network | 0.94 |
| % Forest Cover in ARA of Upstream Network | 58.36 | % Road Impervious in ARA of Upstream Network | 1.08 |
| % Forest Cover in ARA of Downstream Network | 41.68 | % Road Impervious in ARA of Downstream Network | 2.56 |
| % Agricultural Cover in ARA of Upstream Network | 7.46 | % Other Impervious in ARA of Upstream Network | 2.13 |
| % Agricultural Cover in ARA of Downstream Network | 8.5 | % Other Impervious in ARA of Downstream Network | 5.73 |
| % Impervious Surf in ARA of Upstream Network | 1.26 | | |
| % Impervious Surf in ARA of Downstream Network | 5.74 | | |

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) | 9.99 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 46.87 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 9.99 | # Downstream Hydropower Dams | 1 |
| # Size Classes in Total Network | 3 | # Downstream Dams with Passage | 1 |
| # Upstream Network Size Classes | 2 | # of Downstream Barriers | 1 |
| NFHAP Cumulative Disturbance Index | Moderate | | |
| Dam is on Conserved Land | No | | |
| % Conserved Land in 100m Buffer of Upstream Network | 3.77 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 5.17 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 1.02 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 1.48 | | |
| Density of off-channel dams in Upstream Network Watershed (#/m2) | 0.05 | | |
| Density of off-channel dams in Downstream Network Watershed (#/m2) | 0 | | |

Diadromous Fish

| | | | |
|---|-------------------|-------------------------------|-----------------|
| Downstream Alewife | Current | Downstream Striped Bass | None Documented |
| Downstream Blueback | Historical | Downstream Atlantic Sturgeon | None Documented |
| Downstream American Shad | Potential Current | Downstream Shortnose Sturgeon | None Documented |
| Downstream Hickory Shad | Potential Current | Downstream American Eel | Current |
| Presence of 1 or More Downstream Anadromous Species | Current | | |
| # Diadromous Species Downstream (incl eel) | 2 | | |

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) | 58 |
| # Rare Fish (HUC8) | 1 |
| # Rare Mussel (HUC8) | 3 |
| # 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 |

Metric descriptions can be found at:

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