# Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_764** **COLLEGE LAKE DAM**

| | |
|---|---|
| Bay-wide Diadromous Tier | 12 |
| Bay-wide Resident Tier | 8 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | VA68002 |
| State ID | 764 |
| River Name | Blackwater Creek |
| Dam Height (ft) | 35.4 |
| Dam Type | Earth |
| Latitude | 37.402 |
| Longitude | -79.1842 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12 | Blackwater Creek |
| HUC 10 | Harris Creek-James River |
| HUC 8 | Middle James-Buffalo |
| HUC 6 | James |
| HUC 4 | Lower Chesapeake |


## Landcover

| NLCD (2011) | |
|---|---|
| % Impervious Surface in Upstream Drainage Area | 22.65 |
| % Natural Cover in Upstream Drainage Area | 24.79 |
| % Forested in Upstream Drainage Area | 23.07 |
| % Agriculture in Upstream Drainage Area | 7.29 |
| % Natural Cover in ARA of Upstream Network | 44.32 |
| % Natural Cover in ARA of Downstream Network | 61.89 |
| % Forest Cover in ARA of Upstream Network | 41.48 |
| % Forest Cover in ARA of Downstream Network | 60.24 |
| % Agricultral Cover in ARA of Upstream Network | 7.57 |
| % Agricultral Cover in ARA of Downstream Network | 17.85 |
| % Impervious Surf in ARA of Upstream Network | 13.8 |
| % Impervious Surf in ARA of Downstream Network | 4.12 |

| Chesapeake Conservancy (2016) | |
|---|---|
| % Tree Cover in ARA of Upstream Network | 71.56 |
| % Tree Cover in ARA of Downstream Network | 80.12 |
| % Herbaceaous Cover in ARA of Upstream Network | 11.71 |
| % Herbaceaous Cover in ARA of Downstream Network | 13.01 |
| % Barren Cover in ARA of Upstream Network | 0 |
| % Barren Cover in ARA of Downstream Network | 0.08 |
| % Road Impervious in ARA of Upstream Network | 6.57 |
| % Road Impervious in ARA of Downstream Network | 1.93 |
| % Other Impervious in ARA of Upstream Network | 9.18 |
| % Other Impervious in ARA of Downstream Network | 3.63 |

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) | 48.52 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 132.76 | # Downsteam Natural Barriers | 0 |
| Absolute Gain (mi) | 48.52 | # Downstream Hydropower Dams | 2 |
| # Size Classes in Total Network | 3 | # Downstream Dams with Passage | 4 |
| # Upstream Network Size Classes | 2 | # of Downstream Barriers | 5 |

| | |
|---|---|
| NFHAP Cumulative Disturbance Index | Very High |
| Dam is on Conserved Land | No |
| % Conserved Land in 100m Buffer of Upstream Network | 0.48 |
| % Conserved Land in 100m Buffer of Downstream Network | 10.01 |
| Density of Crossings in Upstream Network Watershed (#/m2) | 2.5 |
| Density of Crossings in Downstream Network Watershed (#/m2) | 1.01 |
| 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 | Current |
| One or More DS Anadromous Species | Historical | # Diadromous Sp Dnstrm (incl eel) | 1 |

## Resident Fish and Rare Species

| | |
|---|---|
| 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) | 50 |
| # Rare Fish (HUC8) | 0 |
| # Rare Mussel (HUC8) | 4 |
| # Rare Crayfish (HUC8) | 0 |
| Globally rare or fed listed fish/mussel sp HUC12 | No |
| Globally rare or fed listed fish/mussel sp in upstream or downstream functional network | No |

## 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 |

| | |
|---|---|
| Rare fish or mussel sp in HUC12 | No |
| Rare fish or mussel in upstream or downstream functional network | No |

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