

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_395**

ARBERDEEN DAM

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 5 |
| Bay-wide Resident Tier | 12 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | |
| State ID | 395 |
| River Name | Beatty Creek |
| Dam Height (ft) | 22 |
| Dam Type | Earth |
| Latitude | 37.025 |
| Longitude | -76.5952 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12 | Jones Creek-Pagan River |
| HUC 10 | Pagan River-James River |
| HUC 8 | Lower James |
| HUC 6 | James |
| HUC 4 | Lower Chesapeake |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 0.19 | % Tree Cover in ARA of Upstream Network | 32.48 |
| % Natural Cover in Upstream Drainage Area | 40.45 | % Tree Cover in ARA of Downstream Network | 66.16 |
| % Forested in Upstream Drainage Area | 16.97 | % Herbaceous Cover in ARA of Upstream Network | 58.6 |
| % Agriculture in Upstream Drainage Area | 57.43 | % Herbaceous Cover in ARA of Downstream Network | 18.22 |
| % Natural Cover in ARA of Upstream Network | 38.07 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 84.01 | % Barren Cover in ARA of Downstream Network | 0 |
| % Forest Cover in ARA of Upstream Network | 12.08 | % Road Impervious in ARA of Upstream Network | 0.04 |
| % Forest Cover in ARA of Downstream Network | 16.38 | % Road Impervious in ARA of Downstream Network | 0.17 |
| % Agricultural Cover in ARA of Upstream Network | 60.73 | % Other Impervious in ARA of Upstream Network | 0.01 |
| % Agricultural Cover in ARA of Downstream Network | 13.67 | % Other Impervious in ARA of Downstream Network | 1.55 |
| % Impervious Surf in ARA of Upstream Network | 0.06 | | |
| % Impervious Surf in ARA of Downstream Network | 1.08 | | |

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) | 0.18 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 191.95 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 0.18 | # Downstream Hydropower Dams | 0 |
| # Size Classes in Total Network | 2 | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes | 0 | # of Downstream Barriers | 0 |
| NFHAP Cumulative Disturbance Index | Moderate | | |
| Dam is on Conserved Land | No | | |
| % Conserved Land in 100m Buffer of Upstream Network | 0 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 0 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 3.3 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 0 | | |
| 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 | Current | Downstream Striped Bass | None Documented |
| Downstream Blueback | Current | Downstream Atlantic Sturgeon | None Documented |
| Downstream American Shad | None Documented | Downstream Shortnose Sturgeon | None Documented |
| Downstream Hickory Shad | None Documented | Downstream American Eel | Current |
| Presence of 1 or More Downstream Anadromous Species | Current | | |
| # Diadromous Species Downstream (incl eel) | 3 | | |

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) | 2 |
| # Rare Mussel (HUC8) | 1 |
| # 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 | High |
| PA IBI Stream Health | N/A |

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