

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_PA00001** **AYLESWORTH CREEK DAM**

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 7 |
| Bay-wide Resident Tier | 3 |
| Bay-wide Brook Trout Tier | 13 |
| NID ID | PA00001 |
| State ID | PA00001 |
| River Name | Aylesworth Creek |
| Dam Height (ft) | 90 |
| Dam Type | Earth / Rockfill |
| Latitude | 41.522 |
| Longitude | -75.53 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12 | Rush Brook-Lackawanna River |
| HUC 10 | Lackawanna River |
| HUC 8 | Upper Susquehanna-Lackawanna |
| HUC 6 | Upper Susquehanna |
| HUC 4 | Susquehanna |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 1.27 | % Tree Cover in ARA of Upstream Network | 93.4 |
| % Natural Cover in Upstream Drainage Area | 94.72 | % Tree Cover in ARA of Downstream Network | 54.16 |
| % Forested in Upstream Drainage Area | 79.14 | % Herbaceous Cover in ARA of Upstream Network | 3.03 |
| % Agriculture in Upstream Drainage Area | 1.22 | % Herbaceous Cover in ARA of Downstream Network | 33.75 |
| % Natural Cover in ARA of Upstream Network | 99.66 | % Barren Cover in ARA of Upstream Network | 0.43 |
| % Natural Cover in ARA of Downstream Network | 57.7 | % Barren Cover in ARA of Downstream Network | 0.51 |
| % Forest Cover in ARA of Upstream Network | 81.91 | % Road Impervious in ARA of Upstream Network | 0 |
| % Forest Cover in ARA of Downstream Network | 44.4 | % Road Impervious in ARA of Downstream Network | 2 |
| % Agricultural Cover in ARA of Upstream Network | 0.04 | % Other Impervious in ARA of Upstream Network | 0.47 |
| % Agricultural Cover in ARA of Downstream Network | 27.91 | % Other Impervious in ARA of Downstream Network | 3.88 |
| % Impervious Surf in ARA of Upstream Network | 0.18 | | |
| % Impervious Surf in ARA of Downstream Network | 3.93 | | |

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) | 6.05 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 7078.59 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 6.05 | # Downstream Hydropower Dams | 4 |
| # Size Classes in Total Network | 7 | # Downstream Dams with Passage | 5 |
| # Upstream Network Size Classes | 2 | # of Downstream Barriers | 6 |
| NFHAP Cumulative Disturbance Index | Moderate | | |
| Dam is on Conserved Land | No | | |
| % Conserved Land in 100m Buffer of Upstream Network | 3.85 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 6.98 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 0.7 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 0.98 | | |
| Density of off-channel dams in Upstream Network Watershed (#/m2) | 0 | | |
| Density of off-channel dams in Downstream Network Watershed (#/m2) | 0.01 | | |

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 |
| Presence of 1 or More Downstream Anadromous Species | Historical | | |
| # Diadromous Species Downstream (incl eel) | 1 | | |

Resident Fish

| | |
|--|-----|
| Barrier is in EBTJV BKT Catchment | Yes |
| 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) | 37 |
| # Rare Fish (HUC8) | 0 |
| # 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 | Fair |

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