

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1124**

SEVEN FOUNTAINS DAM

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 19 |
| Bay-wide Resident Tier | 18 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | VA17103 |
| State ID | 1124 |
| River Name | |
| Dam Height (ft) | 12 |
| Dam Type | Gravity |
| Latitude | 38.846 |
| Longitude | -78.4032 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12 | Lower Passage Creek |
| HUC 10 | Passage Creek-North Fork Shena |
| HUC 8 | North Fork Shenandoah |
| HUC 6 | Potomac |
| HUC 4 | Potomac |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 0 | % Tree Cover in ARA of Upstream Network | 0 |
| % Natural Cover in Upstream Drainage Area | 19.44 | % Tree Cover in ARA of Downstream Network | 59.79 |
| % Forested in Upstream Drainage Area | 2.78 | % Herbaceous Cover in ARA of Upstream Network | 0.07 |
| % Agriculture in Upstream Drainage Area | 80.56 | % Herbaceous Cover in ARA of Downstream Network | 28.7 |
| % Natural Cover in ARA of Upstream Network | 0 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 61.79 | % Barren Cover in ARA of Downstream Network | 0.68 |
| % Forest Cover in ARA of Upstream Network | 0 | % Road Impervious in ARA of Upstream Network | 0 |
| % Forest Cover in ARA of Downstream Network | 53.27 | % Road Impervious in ARA of Downstream Network | 1.87 |
| % Agricultural Cover in ARA of Upstream Network | 100 | % Other Impervious in ARA of Upstream Network | 0 |
| % Agricultural Cover in ARA of Downstream Network | 28.34 | % Other Impervious in ARA of Downstream Network | 2.27 |
| % Impervious Surf in ARA of Upstream Network | 0 | | |
| % Impervious Surf in ARA of Downstream Network | 1.76 | | |

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1124**

SEVEN FOUNTAINS DAM

Network, System Type and Condition

| | | | |
|--|--|--------------------------------|---|
| Functional Upstream Network (mi) | 0.01 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 832.53 | # Downstream Natural Barriers | 1 |
| Absolute Gain (mi) | 0.01 | # Downstream Hydropower Dams | 2 |
| # Size Classes in Total Network | 5 | # Downstream Dams with Passage | 3 |
| # Upstream Network Size Classes | 0 | # of Downstream Barriers | 4 |
| NFHAP Cumulative Disturbance Index | Not Scored / Unavailable at this scale | | |
| Dam is on Conserved Land | No | | |
| % Conserved Land in 100m Buffer of Upstream Network | 0 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 30.89 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 0 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 1.29 | | |
| 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 | Current |
| One or More DS Anadromous Species | None Docume | # 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 | Yes |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | Yes |
| Native Fish Species Richness (HUC8) | 28 |
| # Rare Fish (HUC8) | 0 |
| # Rare Mussel (HUC8) | 3 |
| # 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 | GOOD |
| 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 |

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

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf