

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_749**

**VOLCHERS DAM**

|                           |                                 |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier  | 6                               |
| Bay-wide Resident Tier    | 6                               |
| Bay-wide Brook Trout Tier | N/A                             |
| NID ID                    |                                 |
| State ID                  | 749                             |
| River Name                |                                 |
| Dam Height (ft)           | 24                              |
| Dam Type                  | Earth                           |
| Latitude                  | 37.6661                         |
| Longitude                 | -78.069                         |
| Passage Facilities        | None Documented                 |
| Passage Year              | N/A                             |
| Size Class                | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12                    | Picketts Creek-James River      |
| HUC 10                    | Deep Creek-James River          |
| HUC 8                     | Middle James-Willis             |
| HUC 6                     | James                           |
| HUC 4                     | Lower Chesapeake                |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 0.66  | % Tree Cover in ARA of Upstream Network         | 65.04 |
| % Natural Cover in Upstream Drainage Area         | 65.21 | % Tree Cover in ARA of Downstream Network       | 79.1  |
| % Forested in Upstream Drainage Area              | 60.03 | % Herbaceous Cover in ARA of Upstream Network   | 16.61 |
| % Agriculture in Upstream Drainage Area           | 31.99 | % Herbaceous Cover in ARA of Downstream Network | 15.73 |
| % Natural Cover in ARA of Upstream Network        | 75.83 | % Barren Cover in ARA of Upstream Network       | 0     |
| % Natural Cover in ARA of Downstream Network      | 79.33 | % Barren Cover in ARA of Downstream Network     | 0.1   |
| % Forest Cover in ARA of Upstream Network         | 58.33 | % Road Impervious in ARA of Upstream Network    | 0     |
| % Forest Cover in ARA of Downstream Network       | 65.28 | % Road Impervious in ARA of Downstream Network  | 0.6   |
| % Agricultural Cover in ARA of Upstream Network   | 24.17 | % Other Impervious in ARA of Upstream Network   | 0.19  |
| % Agricultural Cover in ARA of Downstream Network | 16.03 | % Other Impervious in ARA of Downstream Network | 0.78  |
| % Impervious Surf in ARA of Upstream Network      | 0     |   |       |
| % Impervious Surf in ARA of Downstream Network    | 0.71  |   |       |

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric\\_Glossary.pdf](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)                                   | 0.12                                   | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 5431.14                                | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 0.12                                   | # Downstream Hydropower Dams   | 2 |
| # Size Classes in Total Network                                    | 6                                      | # Downstream Dams with Passage | 4 |
| # 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              | 11.23                                  |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 0                                      |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 0.84                                   |                                |   |
| 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                                  | Potential Current | Downstream Striped Bass       | None Documented |
| Downstream Blueback                                 | Potential 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 | Potential Current |                               |                 |
| # Diadromous Species Downstream (incl eel)          | 1                 |                               |                 |

## Resident Fish

|  |     |
|--|-----|
| 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) | No  |
| Native Fish Species Richness (HUC8)              | 51  |
| # Rare Fish (HUC8)                               | 0   |
| # Rare Mussel (HUC8)                             | 3   |
| # 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         | 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](http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf)