

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD\_12098**      **COLUMBIA GATEWAY DAM**

|                           |                                  |
|---------------------------|----------------------------------|
| Bay-wide Diadromous Tier  | 12                               |
| Bay-wide Resident Tier    | 19                               |
| Bay-wide Brook Trout Tier | N/A                              |
| NID ID                    | MD00079                          |
| State ID                  | 12098                            |
| River Name                |                                  |
| Dam Height (ft)           | 36                               |
| Dam Type                  | Earth                            |
| Latitude                  | 39.1707                          |
| Longitude                 | -76.8091                         |
| Passage Facilities        | None Documented                  |
| Passage Year              | N/A                              |
| Size Class                | 1a: Headwater (0 - 3.861 sq mi)  |
| HUC 12                    | Dorsey Run-Little Patuxent River |
| HUC 10                    | Little Patuxent River            |
| HUC 8                     | Patuxent                         |
| HUC 6                     | Upper Chesapeake                 |
| HUC 4                     | Upper Chesapeake                 |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 52.57 | % Tree Cover in ARA of Upstream Network         | 0     |
| % Natural Cover in Upstream Drainage Area         | 1.83  | % Tree Cover in ARA of Downstream Network       | 61.32 |
| % Forested in Upstream Drainage Area              | 1.83  | % Herbaceous Cover in ARA of Upstream Network   | 33.22 |
| % Agriculture in Upstream Drainage Area           | 0     | % Herbaceous Cover in ARA of Downstream Network | 29.69 |
| % Natural Cover in ARA of Upstream Network        | 0     | % Barren Cover in ARA of Upstream Network       | 0     |
| % Natural Cover in ARA of Downstream Network      | 52.78 | % Barren Cover in ARA of Downstream Network     | 0.26  |
| % Forest Cover in ARA of Upstream Network         | 0     | % Road Impervious in ARA of Upstream Network    | 9.33  |
| % Forest Cover in ARA of Downstream Network       | 39.25 | % Road Impervious in ARA of Downstream Network  | 2.75  |
| % Agricultural Cover in ARA of Upstream Network   | 0     | % Other Impervious in ARA of Upstream Network   | 57.45 |
| % Agricultural Cover in ARA of Downstream Network | 21.44 | % Other Impervious in ARA of Downstream Network | 4.66  |
| % Impervious Surf in ARA of Upstream Network      | 77.67 |   |       |
| % Impervious Surf in ARA of Downstream Network    | 6.75  |   |       |

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)                                   | 0.29      | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 233.81    | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 0.29      | # Downstream Hydropower Dams   | 0 |
| # Size Classes in Total Network                                    | 3         | # Downstream Dams with Passage | 1 |
| # Upstream Network Size Classes                                    | 0         | # of Downstream Barriers       | 1 |
| NFHAP Cumulative Disturbance Index                                 | Very High |                                |   |
| Dam is on Conserved Land   | No        |                                |   |
| % Conserved Land in 100m Buffer of Upstream Network                | 5.57      |                                |   |
| % Conserved Land in 100m Buffer of Downstream Network              | 26.05     |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 0         |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 1.94      |                                |   |
| 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               | 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         |
| One or More DS Anadromous Species | Current           | # Diadromous Sp Dnstrm (incl eel) | 2               |

## 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)   | 51 |
| # Rare Fish (HUC8)  | 0  |
| # Rare Mussel (HUC8)  | 1  |
| # 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                             | ERY_POOR |
| MD MBSS Benthic IBI Stream Health                                | Poor     |
| MD MBSS Fish IBI Stream Health                                   | Fair     |
| MD MBSS Combined IBI Stream Health                               | Poor     |
| VA INSTAR mIBI Stream Health                                     | N/A      |
| PA IBI Stream Health   | N/A      |
| Rare fish or mussel sp in HUC12                                  | Yes      |
| Rare fish or mussel in upstream or downstream functional network | Yes      |

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)