

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD\_MDE240**      **Security Mill Dam**

|                           |                                   |
|---------------------------|-----------------------------------|
| Bay-wide Diadromous Tier  | 17                                |
| Bay-wide Resident Tier    | 15                                |
| Bay-wide Brook Trout Tier | N/A                               |
| NID ID                    |                                   |
| State ID                  | MDE240                            |
| River Name                | Antietam Creek                    |
| Dam Height (ft)           | 0                                 |
| Dam Type                  |                                   |
| Latitude                  | 0                                 |
| Longitude                 | 0                                 |
| Passage Facilities        | None Documented                   |
| Passage Year              | N/A                               |
| Size Class                | 2: Small River (38.61 - 200 sq mi |
| HUC 12                    | Sharmans Branch-Antietam Cree     |
| HUC 10                    | Antietam Creek                    |
| HUC 8                     | Conococheague-Opequon             |
| HUC 6                     | Potomac                           |
| HUC 4                     | Potomac                           |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 3.59  | % Tree Cover in ARA of Upstream Network         | 25.51 |
| % Natural Cover in Upstream Drainage Area         | 32.11 | % Tree Cover in ARA of Downstream Network       | 21.26 |
| % Forested in Upstream Drainage Area              | 31.06 | % Herbaceous Cover in ARA of Upstream Network   | 66.13 |
| % Agriculture in Upstream Drainage Area           | 53.2  | % Herbaceous Cover in ARA of Downstream Network | 49.52 |
| % Natural Cover in ARA of Upstream Network        | 16.27 | % Barren Cover in ARA of Upstream Network       | 0.27  |
| % Natural Cover in ARA of Downstream Network      | 7.35  | % Barren Cover in ARA of Downstream Network     | 0.63  |
| % Forest Cover in ARA of Upstream Network         | 14.58 | % Road Impervious in ARA of Upstream Network    | 1.75  |
| % Forest Cover in ARA of Downstream Network       | 3.9   | % Road Impervious in ARA of Downstream Network  | 5.89  |
| % Agricultural Cover in ARA of Upstream Network   | 66.31 | % Other Impervious in ARA of Upstream Network   | 5.19  |
| % Agricultural Cover in ARA of Downstream Network | 25.4  | % Other Impervious in ARA of Downstream Network | 20.62 |
| % Impervious Surf in ARA of Upstream Network      | 4.3   |   |       |
| % Impervious Surf in ARA of Downstream Network    | 22.69 |   |       |

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)                                   | 203.01 | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 215.82 | # Downstream Natural Barriers  | 1 |
| Absolute Gain (mi)   | 12.8   | # Downstream Hydropower Dams   | 0 |
| # Size Classes in Total Network                                    | 3      | # Downstream Dams with Passage | 1 |
| # Upstream Network Size Classes                                    | 3      | # of Downstream Barriers       | 5 |
| NFHAP Cumulative Disturbance Index                                 | High   |                                |   |
| Dam is on Conserved Land   | No     |                                |   |
| % Conserved Land in 100m Buffer of Upstream Network                | 9.39   |                                |   |
| % Conserved Land in 100m Buffer of Downstream Network              | 5.99   |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 1.09   |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 2.22   |                                |   |
| Density of off-channel dams in Upstream Network Watershed (#/m2)   | 0.01   |                                |   |
| 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         |
| Presence of 1 or More Downstream Anadromous Species | None Documented |                               |                 |
| # 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) | Yes |
| Native Fish Species Richness (HUC8)              | 42  |
| # Rare Fish (HUC8)                               | 0   |
| # Rare Mussel (HUC8)                             | 5   |
| # Rare Crayfish (HUC8)                           | 0   |

## Stream Health

|                                      |      |
|--------------------------------------|------|
| Chesapeake Bay Program Stream Health | 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                 | Poor |

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