

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_448**

**REDFORD DAM**

|                           |                                 |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier  | 7                               |
| Bay-wide Resident Tier    | 3                               |
| Bay-wide Brook Trout Tier | N/A                             |
| NID ID                    | VA14503                         |
| State ID                  | 448                             |
| River Name                | Horsepen Branch                 |
| Dam Height (ft)           | 17                              |
| Dam Type                  | Earth                           |
| Latitude                  | 37.5906                         |
| Longitude                 | -78.0289                        |
| Passage Facilities        | None Documented                 |
| Passage Year              | N/A                             |
| Size Class                | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12                    | Maxey Mill Creek-Deep Creek     |
| 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    | 0.12  | % Tree Cover in ARA of Upstream Network         | 85.13 |
| % Natural Cover in Upstream Drainage Area         | 82.72 | % Tree Cover in ARA of Downstream Network       | 92.84 |
| % Forested in Upstream Drainage Area              | 70.96 | % Herbaceous Cover in ARA of Upstream Network   | 8.51  |
| % Agriculture in Upstream Drainage Area           | 15.28 | % Herbaceous Cover in ARA of Downstream Network | 5.77  |
| % Natural Cover in ARA of Upstream Network        | 89.87 | % Barren Cover in ARA of Upstream Network       | 0     |
| % Natural Cover in ARA of Downstream Network      | 94.49 | % Barren Cover in ARA of Downstream Network     | 0     |
| % Forest Cover in ARA of Upstream Network         | 72.65 | % Road Impervious in ARA of Upstream Network    | 0.22  |
| % Forest Cover in ARA of Downstream Network       | 67.46 | % Road Impervious in ARA of Downstream Network  | 0.19  |
| % Agricultural Cover in ARA of Upstream Network   | 9.45  | % Other Impervious in ARA of Upstream Network   | 0.17  |
| % Agricultural Cover in ARA of Downstream Network | 4.85  | % Other Impervious in ARA of Downstream Network | 0.28  |
| % Impervious Surf in ARA of Upstream Network      | 0.03  |   |       |
| % Impervious Surf in ARA of Downstream Network    | 0.04  |   |       |

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)                                   | 11.04                                  | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 172.98                                 | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 11.04                                  | # Downstream Hydropower Dams   | 2 |
| # Size Classes in Total Network                                    | 3                                      | # Downstream Dams with Passage | 4 |
| # Upstream Network Size Classes                                    | 2                                      | # of Downstream Barriers       | 5 |
| 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              | 11.25                                  |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 0.41                                   |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 0.39                                   |                                |   |
| 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                | 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         |
| One or More DS Anadromous Species | Historical      | # 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   | No |
| 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  |
| 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                             | 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                                     | 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   |

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