

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA\_14-050**

**PENNS CREEK FEED MILL**

|                           |                                    |
|---------------------------|------------------------------------|
| Bay-wide Diadromous Tier  | 2                                  |
| Bay-wide Resident Tier    | 3                                  |
| Bay-wide Brook Trout Tier | N/A                                |
| NID ID                    |                                    |
| State ID                  | 14-050                             |
| River Name                | Penns Creek                        |
| Dam Height (ft)           | 15                                 |
| Dam Type                  | Concrete                           |
| Latitude                  | 40.8559                            |
| Longitude                 | -77.4902                           |
| Passage Facilities        | None Documented                    |
| Passage Year              | N/A                                |
| Size Class                | 2: Small River (38.61 - 200 sq mi) |
| HUC 12                    | Headwaters Penns Creek             |
| HUC 10                    | Penns Creek                        |
| HUC 8                     | Lower Susquehanna-Penns            |
| HUC 6                     | Lower Susquehanna                  |
| HUC 4                     | Susquehanna                        |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 0.84  | % Tree Cover in ARA of Upstream Network         | 57.12 |
| % Natural Cover in Upstream Drainage Area         | 62.84 | % Tree Cover in ARA of Downstream Network       | 57.9  |
| % Forested in Upstream Drainage Area              | 62.45 | % Herbaceous Cover in ARA of Upstream Network   | 39.13 |
| % Agriculture in Upstream Drainage Area           | 30.54 | % Herbaceous Cover in ARA of Downstream Network | 29.41 |
| % Natural Cover in ARA of Upstream Network        | 60.59 | % Barren Cover in ARA of Upstream Network       | 0.15  |
| % Natural Cover in ARA of Downstream Network      | 63.5  | % Barren Cover in ARA of Downstream Network     | 0.56  |
| % Forest Cover in ARA of Upstream Network         | 59.89 | % Road Impervious in ARA of Upstream Network    | 1.16  |
| % Forest Cover in ARA of Downstream Network       | 52.34 | % Road Impervious in ARA of Downstream Network  | 1.34  |
| % Agricultural Cover in ARA of Upstream Network   | 27.5  | % Other Impervious in ARA of Upstream Network   | 1.51  |
| % Agricultural Cover in ARA of Downstream Network | 23.41 | % Other Impervious in ARA of Downstream Network | 2.82  |
| % Impervious Surf in ARA of Upstream Network      | 1.42  |   |       |
| % Impervious Surf in ARA of Downstream Network    | 2.58  |   |       |

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)                                   | 136.41  | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 4644.08 | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 136.41  | # Downstream Hydropower Dams   | 4 |
| # Size Classes in Total Network                                    | 6       | # Downstream Dams with Passage | 5 |
| # 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                | 6.49    |                                |   |
| % Conserved Land in 100m Buffer of Downstream Network              | 8.38    |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 1.27    |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 1.21    |                                |   |
| 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          | Current           | 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)   | 33  |
| # 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 | Yes |

## Stream Health

|  |      |
|--|------|
| Chesapeake Bay Program Stream Health                             | POOR |
| 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                                     | N/A  |
| PA IBI Stream Health   | Good |
| Rare fish or mussel sp in HUC12                                  | No   |
| Rare fish or mussel in upstream or downstream functional network | Yes  |

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