

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_399**

**GAIL DAM**

|                           |                                 |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier  | 2                               |
| Bay-wide Resident Tier    | 5                               |
| Bay-wide Brook Trout Tier | N/A                             |
| NID ID                    | VA09310                         |
| State ID                  | 399                             |
| River Name                |                                 |
| Dam Height (ft)           | 16                              |
| Dam Type                  | Earth                           |
| Latitude                  | 37.055                          |
| Longitude                 | -76.7014                        |
| Passage Facilities        | None Documented                 |
| Passage Year              | N/A                             |
| Size Class                | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12                    | Lawnes Creek                    |
| HUC 10                    | Lawnes Creek-James River        |
| HUC 8                     | Lower James                     |
| HUC 6                     | James                           |
| HUC 4                     | Lower Chesapeake                |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 0.32  | % Tree Cover in ARA of Upstream Network         | 88.78 |
| % Natural Cover in Upstream Drainage Area         | 54.26 | % Tree Cover in ARA of Downstream Network       | 76.66 |
| % Forested in Upstream Drainage Area              | 29.31 | % Herbaceous Cover in ARA of Upstream Network   | 9.5   |
| % Agriculture in Upstream Drainage Area           | 42.25 | % Herbaceous Cover in ARA of Downstream Network | 11.97 |
| % Natural Cover in ARA of Upstream Network        | 87.28 | % Barren Cover in ARA of Upstream Network       | 0     |
| % Natural Cover in ARA of Downstream Network      | 87.2  | % Barren Cover in ARA of Downstream Network     | 0.13  |
| % Forest Cover in ARA of Upstream Network         | 34.01 | % Road Impervious in ARA of Upstream Network    | 0.42  |
| % Forest Cover in ARA of Downstream Network       | 29.47 | % Road Impervious in ARA of Downstream Network  | 0.64  |
| % Agricultural Cover in ARA of Upstream Network   | 10.23 | % Other Impervious in ARA of Upstream Network   | 0.29  |
| % Agricultural Cover in ARA of Downstream Network | 8.54  | % Other Impervious in ARA of Downstream Network | 0.85  |
| % Impervious Surf in ARA of Upstream Network      | 0.19  |   |       |
| % Impervious Surf in ARA of Downstream Network    | 0.51  |   |       |

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)                                   | 1.59                                   | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 51.48                                  | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 1.59                                   | # Downstream Hydropower Dams   | 0 |
| # Size Classes in Total Network                                    | 2                                      | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes                                    | 1                                      | # of Downstream Barriers       | 0 |
| 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              | 2.58                                   |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 0.26                                   |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 0.23                                   |                                |   |
| 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                                  | 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         |
| Presence of 1 or More Downstream Anadromous Species | Current         |                               |                 |
| # Diadromous Species Downstream (incl eel)          | 3               |                               |                 |

## Resident Fish

|  |    |
|--|----|
| 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)              | 62 |
| # Rare Fish (HUC8)                               | 2  |
| # Rare Mussel (HUC8)                             | 1  |
| # 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         | 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)