

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_698**

**GNEGY DAM**

|                           |                                 |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier  | 10                              |
| Bay-wide Resident Tier    | 6                               |
| Bay-wide Brook Trout Tier | N/A                             |
| NID ID                    | VA04931                         |
| State ID                  | 698                             |
| River Name                | Tear Wallet Creek               |
| Dam Height (ft)           | 20                              |
| Dam Type                  | Earth                           |
| Latitude                  | 37.4658                         |
| Longitude                 | -78.2678                        |
| Passage Facilities        | None Documented                 |
| Passage Year              | N/A                             |
| Size Class                | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12                    | Big Guinea Creek                |
| HUC 10                    | Big Guinea Creek-Appomattox Ri  |
| HUC 8                     | Appomattox                      |
| HUC 6                     | James                           |
| HUC 4                     | Lower Chesapeake                |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 0.42  | % Tree Cover in ARA of Upstream Network         | 85.59 |
| % Natural Cover in Upstream Drainage Area         | 67.38 | % Tree Cover in ARA of Downstream Network       | 79.81 |
| % Forested in Upstream Drainage Area              | 60.94 | % Herbaceous Cover in ARA of Upstream Network   | 8.65  |
| % Agriculture in Upstream Drainage Area           | 27.56 | % Herbaceous Cover in ARA of Downstream Network | 3.21  |
| % Natural Cover in ARA of Upstream Network        | 90.44 | % Barren Cover in ARA of Upstream Network       | 0     |
| % Natural Cover in ARA of Downstream Network      | 97.42 | % Barren Cover in ARA of Downstream Network     | 0     |
| % Forest Cover in ARA of Upstream Network         | 79.68 | % Road Impervious in ARA of Upstream Network    | 0.53  |
| % Forest Cover in ARA of Downstream Network       | 73.33 | % Road Impervious in ARA of Downstream Network  | 0     |
| % Agricultural Cover in ARA of Upstream Network   | 7.57  | % Other Impervious in ARA of Upstream Network   | 0.25  |
| % Agricultural Cover in ARA of Downstream Network | 2.58  | % Other Impervious in ARA of Downstream Network | 0.05  |
| % Impervious Surf in ARA of Upstream Network      | 0.24  |   |       |
| % Impervious Surf in ARA of Downstream Network    | 0.01  |   |       |

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)

# Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_698**

**GNEGY DAM**

## Network, System Type and Condition

|  |           |                                |   |
|--|-----------|--------------------------------|---|
| Functional Upstream Network (mi)                                   | 1.14      | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 2.72      | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 1.14      | # Downstream Hydropower Dams   | 3 |
| # Size Classes in Total Network                                    | 1         | # Downstream Dams with Passage | 3 |
| # Upstream Network Size Classes                                    | 1         | # of Downstream Barriers       | 4 |
| NFHAP Cumulative Disturbance Index                                 | Very High |                                |   |
| Dam is on Conserved Land   | No        |                                |   |
| % Conserved Land in 100m Buffer of Upstream Network                | 0         |                                |   |
| % Conserved Land in 100m Buffer of Downstream Network              | 0         |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 0         |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 0         |                                |   |
| 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       | None Documented |
| Presence of 1 or More Downstream Anadromous Species | Historical      |                               |                 |
| # Diadromous Species Downstream (incl eel)          | 0               |                               |                 |

## 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)              | 58 |
| # Rare Fish (HUC8)                               | 1  |
| # Rare Mussel (HUC8)                             | 3  |
| # Rare Crayfish (HUC8)                           | 0  |

## 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         | Moderate |
| PA IBI Stream Health                 | N/A      |

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)