

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_1248**

**LAKE MONTCLAIR DAM**

|                           |                                 |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier  | 11                              |
| Bay-wide Resident Tier    | 3                               |
| Bay-wide Brook Trout Tier | N/A                             |
| NID ID                    | VA15303                         |
| State ID                  | 1248                            |
| River Name                | Powells Creek                   |
| Dam Height (ft)           | 74                              |
| Dam Type                  | Gravity                         |
| Latitude                  | 38.6103                         |
| Longitude                 | -77.3429                        |
| Passage Facilities        | None Documented                 |
| Passage Year              | N/A                             |
| Size Class                | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12                    | Powells Creek                   |
| HUC 10                    | Quantico Creek-Potomac River    |
| HUC 8                     | Lower Potomac                   |
| HUC 6                     | Potomac                         |
| HUC 4                     | Potomac                         |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 8.73  | % Tree Cover in ARA of Upstream Network         | 72.52 |
| % Natural Cover in Upstream Drainage Area         | 57.64 | % Tree Cover in ARA of Downstream Network       | 52.69 |
| % Forested in Upstream Drainage Area              | 43.66 | % Herbaceous Cover in ARA of Upstream Network   | 14    |
| % Agriculture in Upstream Drainage Area           | 3.75  | % Herbaceous Cover in ARA of Downstream Network | 11.27 |
| % Natural Cover in ARA of Upstream Network        | 77.93 | % Barren Cover in ARA of Upstream Network       | 1.34  |
| % Natural Cover in ARA of Downstream Network      | 72.92 | % Barren Cover in ARA of Downstream Network     | 0.25  |
| % Forest Cover in ARA of Upstream Network         | 45.32 | % Road Impervious in ARA of Upstream Network    | 2.44  |
| % Forest Cover in ARA of Downstream Network       | 22.17 | % Road Impervious in ARA of Downstream Network  | 2.63  |
| % Agricultural Cover in ARA of Upstream Network   | 4.15  | % Other Impervious in ARA of Upstream Network   | 4.81  |
| % Agricultural Cover in ARA of Downstream Network | 0.87  | % Other Impervious in ARA of Downstream Network | 4.15  |
| % Impervious Surf in ARA of Upstream Network      | 3.11  |   |       |
| % Impervious Surf in ARA of Downstream Network    | 6.22  |   |       |

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)                                   | 26.41                                  | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 42.27                                  | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 15.86                                  | # Downstream Hydropower Dams   | 0 |
| # Size Classes in Total Network                                    | 2                                      | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes                                    | 2                                      | # 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                | 3.16                                   |                                |   |
| % Conserved Land in 100m Buffer of Downstream Network              | 2.81                                   |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 1.07                                   |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 0.56                                   |                                |   |
| 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                                  | 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                | No |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | No |
| Native Fish Species Richness (HUC8)              | 55 |
| # Rare Fish (HUC8)                               | 3  |
| # Rare Mussel (HUC8)                             | 2  |
| # Rare Crayfish (HUC8)                           | 0  |

## Stream Health

|                                      |          |
|--------------------------------------|----------|
| Chesapeake Bay Program Stream Health | GOOD     |
| MD MBSS Benthic IBI Stream Health    | Fair     |
| MD MBSS Fish IBI Stream Health       | Fair     |
| MD MBSS Combined IBI Stream Health   | Fair     |
| 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-prot02/images/Metric\\_Glossary.pdf](http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf)