# Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_22-078** **SANDBEACH DIVERSION**

| | |
|---|---|
| Diadromous Tier | 9 |
| Brook Trout Tier | N/A |
| Resident Tier | 9 |
| NID ID | |
| State ID | 22-078 |
| River Name | Manada Creek |
| Dam Height (ft) | 10 |
| Dam Type | Concrete |
| Latitude | 40.3162 |
| Longitude | -76.6736 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12 | Manada Creek |
| HUC 10 | Lower Swatara Creek |
| HUC 8 | Lower Susquehanna-Swatara |
| HUC 6 | Lower Susquehanna |
| HUC 4 | Susquehanna |


## Landcover

| NLCD (2011) | |
|---|---|
| % Impervious Surface in Upstream Drainage Area | 3.02 |
| % Natural Cover in Upstream Drainage Area | 55.17 |
| % Forested in Upstream Drainage Area | 51.23 |
| % Agriculture in Upstream Drainage Area | 30.49 |
| % Natural Cover in ARA of Upstream Network | 55.15 |
| % Natural Cover in ARA of Downstream Network | 31.55 |
| % Forest Cover in ARA of Upstream Network | 49.95 |
| % Forest Cover in ARA of Downstream Network | 24.78 |
| % Agricultral Cover in ARA of Upstream Network | 31.2 |
| % Agricultral Cover in ARA of Downstream Network | 50.68 |
| % Impervious Surf in ARA of Upstream Network | 2.5 |
| % Impervious Surf in ARA of Downstream Network | 4.85 |

| Chesapeake Conservancy (2016) | |
|---|---|
| % Tree Cover in ARA of Upstream Network | 56.47 |
| % Tree Cover in ARA of Downstream Network | 36.03 |
| % Herbaceaous Cover in ARA of Upstream Network | 37.71 |
| % Herbaceaous Cover in ARA of Downstream Network | 53.85 |
| % Barren Cover in ARA of Upstream Network | 0.51 |
| % Barren Cover in ARA of Downstream Network | 0.54 |
| % Road Impervious in ARA of Upstream Network | 0.87 |
| % Road Impervious in ARA of Downstream Network | 1.43 |
| % Other Impervious in ARA of Upstream Network | 4.14 |
| % Other Impervious in ARA of Downstream Network | 5.87 |

Metric descriptions can be found at:
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) | 69.89 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 454.88 | # Downsteam Natural Barriers | 0 |
| Absolute Gain (mi) | 69.89 | # Downstream Hydropower Dams | 4 |
| # Size Classes in Total Network | 4 | # Downstream Dams with Passage | 5 |
| # Upstream Network Size Classes | 2 | # of Downstream Barriers | 6 |

| | |
|---|---|
| NFHAP Cumulative Disturbance Index | Moderate |
| Dam is on Conserved Land | No |
| % Conserved Land in 100m Buffer of Upstream Network | 0.96 |
| % Conserved Land in 100m Buffer of Downstream Network | 0.19 |
| Density of Crossings in Upstream Network Watershed (#/m2) | 1.29 |
| Density of Crossings in Downstream Network Watershed (#/m2) | 1.24 |
| 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 |

| | |
|---|---|
| Presence of 1 or More Downstream Anadromous Species | Historical |
| # 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 | Yes |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | Yes |
| Native Fish Species Richness (HUC8) | 38 |
| # Rare Fish (HUC8) | 0 |
| # Rare Mussel (HUC8) | 2 |
| # 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 | N/A |
| PA IBI Stream Health | Poor |

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