

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_PA00448** **COLYER LAKE**

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 8 |
| Bay-wide Resident Tier | 8 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | PA00448 |
| State ID | PA00448 |
| River Name | Sinking Creek |
| Dam Height (ft) | 38 |
| Dam Type | Earth |
| Latitude | 40.7788 |
| Longitude | -77.6803 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12 | Colyer Lake-Sinking 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 | 0.08 | % Tree Cover in ARA of Upstream Network | 85.4 |
| % Natural Cover in Upstream Drainage Area | 95.55 | % Tree Cover in ARA of Downstream Network | 57.12 |
| % Forested in Upstream Drainage Area | 93.51 | % Herbaceous Cover in ARA of Upstream Network | 9.07 |
| % Agriculture in Upstream Drainage Area | 0.8 | % Herbaceous Cover in ARA of Downstream Network | 39.13 |
| % Natural Cover in ARA of Upstream Network | 92.78 | % Barren Cover in ARA of Upstream Network | 0.01 |
| % Natural Cover in ARA of Downstream Network | 60.59 | % Barren Cover in ARA of Downstream Network | 0.15 |
| % Forest Cover in ARA of Upstream Network | 86.01 | % Road Impervious in ARA of Upstream Network | 0.33 |
| % Forest Cover in ARA of Downstream Network | 59.89 | % Road Impervious in ARA of Downstream Network | 1.16 |
| % Agricultural Cover in ARA of Upstream Network | 0.24 | % Other Impervious in ARA of Upstream Network | 0.21 |
| % Agricultural Cover in ARA of Downstream Network | 27.5 | % Other Impervious in ARA of Downstream Network | 1.51 |
| % Impervious Surf in ARA of Upstream Network | 0.18 | | |
| % Impervious Surf in ARA of Downstream Network | 1.42 | | |

Metric descriptions can be found at:

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: **PA_PA00448** **COLYER LAKE**

Network, System Type and Condition

| | | | |
|--|----------|--------------------------------|---|
| Functional Upstream Network (mi) | 11.44 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 147.85 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 11.44 | # Downstream Hydropower Dams | 4 |
| # Size Classes in Total Network | 3 | # Downstream Dams with Passage | 5 |
| # Upstream Network Size Classes | 2 | # of Downstream Barriers | 6 |
| NFHAP Cumulative Disturbance Index | Moderate | | |
| Dam is on Conserved Land | Yes | | |
| % Conserved Land in 100m Buffer of Upstream Network | 76.77 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 6.49 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 0.37 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 1.27 | | |
| Density of off-channel dams in Upstream Network Watershed (#/m2) | 0.05 | | |
| 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 | 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 |

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 |

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf