Chesapeake Fish Passage Prioritization - Dam Fact Sheet

| 1 | | | | | | | |
|---|--------------------|---------------------------------|-------|--|--|--|--|
| | CFPPP Unique ID: | VA_344 WILLIS RIVER DAM #9 | | | | | |
| | Diadromous Tier | 5 | | | | | |
| | Brook Trout Tier | N/A | | | | | |
| | Resident Tier | 2 | | | | | |
| | NID ID | VA02910 | 1 | | | | |
| | State ID | 344 | Mc | | | | |
| | River Name | Payne Creek | | | | | |
| | Dam Height (ft) | 36.3 | X | | | | |
| | Dam Type | Earth | | | | | |
| | Latitude | 37.4824 | | | | | |
| | Longitude | -78.3721 | | | | | |
| | Passage Facilities | None Documented | 1 | | | | |
| | Passage Year | N/A | 1 | | | | |
| | Size Class | 1a: Headwater (0 - 3.861 sq mi) | 1 | | | | |
| | HUC 12 | Buffalo Creek-Willis River | RINEC | | | | |
| | HUC 10 | Upper Willis River | | | | | |
| | HUC 8 | Middle James-Willis | 1 | | | | |
| | HUC 6 | James | | | | | |
| | | | | | | | |

Lower Chesapeake



| Landcover | | | | | | | | |
|--|-------|--|-------|--|--|--|--|--|
| NLCD (2011) | | Chesapeake Conservancy (2016) | | | | | | |
| % Impervious Surface in Upstream Drainage Area | 0.29 | % Tree Cover in ARA of Upstream Network | 91.14 | | | | | |
| % Natural Cover in Upstream Drainage Area | 77.07 | % Tree Cover in ARA of Downstream Network | 79.1 | | | | | |
| % Forested in Upstream Drainage Area | 65.52 | % Herbaceaous Cover in ARA of Upstream Network | 5.65 | | | | | |
| % Agriculture in Upstream Drainage Area | 18.06 | % Herbaceaous Cover in ARA of Downstream Network | 15.73 | | | | | |
| % Natural Cover in ARA of Upstream Network | 93.5 | % Barren Cover in ARA of Upstream Network | 0 | | | | | |
| % Natural Cover in ARA of Downstream Network | 79.33 | % Barren Cover in ARA of Downstream Network | 0.1 | | | | | |
| % Forest Cover in ARA of Upstream Network | 73.56 | % Road Impervious in ARA of Upstream Network | 0.51 | | | | | |
| % Forest Cover in ARA of Downstream Network | 65.28 | % Road Impervious in ARA of Downstream Network | 0.6 | | | | | |
| % Agricultral Cover in ARA of Upstream Network | 3.55 | % Other Impervious in ARA of Upstream Network | 0.06 | | | | | |
| % Agricultral Cover in ARA of Downstream Network | 16.03 | % Other Impervious in ARA of Downstream Network | 0.78 | | | | | |
| % Impervious Surf in ARA of Upstream Network | 0.18 | | | | | | | |
| % Impervious Surf in ARA of Downstream Network | 0.71 | | | | | | | |



HUC 4

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_344 WILLIS RIVER DAM #9

| CFPPP Unique ID: VA_344 | WILLIS KIVEK DA | AIVI #9 | | | | | |
|--|------------------------------------|---------------------------------------|--|---|-----------------------|---------------|----------|
| | Network, Sy | stem ' | Туре а | and Condi | tion | | |
| Functional Upstream Network | k (mi) 6.27 | | | Upstrea | ım Size Class Gain (‡ | !) | 0 |
| Total Functional Network (mi) 5437.29 | | | # Downsteam Natural Barriers | | | ers | 0 |
| Absolute Gain (mi) | 6.27 | | # Downstream Hydropower Dams | | | r Dams | 2 |
| # Size Classes in Total Networ | k 6 | | | # Down | stream Dams with F | Passage | 4 |
| # Upstream Network Size Clas | sses 1 | | | # of Do | wnstream Barriers | | 4 |
| NFHAP Cumulative Disturband | ce Index | | | | Not Scored / Unav | ailable at th | is scale |
| Dam is on Conserved Land | | | | | No | | |
| % Conserved Land in 100m Bu | ıffer of Upstream Netwo | ork | k 15.76 | | | | |
| % Conserved Land in 100m Buffer of Downstream Ne | | | | | 11.23 | | |
| Density of Crossings in Upstream Network Watershed (#/n | | | | | 0.62 | | |
| Density of Crossings in Downs | tream Network Watersh | ned (#, | /m2) | | 0.84 | | |
| Density of off-channel dams in | n Upstream Network Wa | atersh | ed (#/ | m2) | 0 | | |
| Density of off-channel dams in | n Downstream Network | Wateı | rshed | (#/m2) | 0 | | |
| | D | Diadro | mous | Fish | | | |
| Downstream Alewife | wnstream Alewife Potential Current | | Downstream Striped Bass None Do | | | umented | |
| Downstream Blueback Potential Current | | Downstream Atlantic Sturgeon None Doo | | | | | umented |
| Downstream American Shad None Documented | | | Downstream Shortnose Sturgeon None Doc | | | umented | |
| Downstream Hickory Shad | None Documented | | Dowr | nstream A | merican Eel | Current | |
| Presence of 1 or More Downs | stream Anadromous Spe | cies | Poter | ntial Curre | | | |
| # Diadromous Species Downs | tream (incl eel) | | 1 | | | | |
| Reside | ent Fish | | | | Strea | m Health | |
| Barrier is in EBTJV BKT Catchment | | No | | Chesapeake Bay Program Stream Health FAIR | | | FAIR |
| Barrier is in Modeled BKT Catchment (DeWeber) | | | | MD MBSS Benthic IBI Stream Health N/A | | | |
| Barrier Blocks an EBTJV Catchment | | Yes | | MD MBSS Fish IBI Stream Health | | | N/A |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) Native Fish Species Richness (HUC8) | | No | | MD MBSS Combined IBI Stream Health | | N/A | |
| | | 51 | | VA INSTAR mIBI Stream Health | | th | High |
| # Rare Fish (HUC8) | | 0 | | PA IBI Str | eam Health | | N/A |
| # Rare Mussel (HUC8) | | 3 | | | | | |
| # Rare Crayfish (HUC8) | | 0 | | | | | |
| | | | | | | | |

