Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_67-476** **KIWANIS LAKE**

Bay-wide Diadromous Tier	19
Bay-wide Resident Tier	17
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	67-476
River Name	Willis Run
Dam Height (ft)	4
Dam Type	Earth
Latitude	39.9687
Longitude	-76.7413
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Willis Run-Codorus Creek
HUC 10	Codorus Creek
HUC 8	Lower Susquehanna
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	41.29
% Natural Cover in Upstream Drainage Area	4.73
% Forested in Upstream Drainage Area	1.8
% Agriculture in Upstream Drainage Area	2.69
% Natural Cover in ARA of Upstream Network	1.37
% Natural Cover in ARA of Downstream Network	15.33
% Forest Cover in ARA of Upstream Network	0.36
% Forest Cover in ARA of Downstream Network	11.75
% Agricultral Cover in ARA of Upstream Network	0.77
% Agricultral Cover in ARA of Downstream Network	11.93
% Impervious Surf in ARA of Upstream Network	56.02
% Impervious Surf in ARA of Downstream Network	33.87

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	16.14
% Tree Cover in ARA of Downstream Network	31.27
% Herbaceaous Cover in ARA of Upstream Network	29.44
% Herbaceaous Cover in ARA of Downstream Network	34.01
% Barren Cover in ARA of Upstream Network	14.43
% Barren Cover in ARA of Downstream Network	0.4
% Road Impervious in ARA of Upstream Network	7.76
% Road Impervious in ARA of Downstream Network	4.97
% Other Impervious in ARA of Upstream Network	31.25
% Other Impervious in ARA of Downstream Network	27.74

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_67-476** **KIWANIS LAKE**

Network, System Type and Condition

Functional Upstream Network (mi)	3.85	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	40.34	# Downsteam Natural Barriers	0
Absolute Gain (mi)	3.85	# Downstream Hydropower Dams	3
# Size Classes in Total Network	3	# Downstream Dams with Passage	3
# Upstream Network Size Classes	2	# 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)	1.8
Density of Crossings in Downstream Network Watershed (#/m2)	2.15
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	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	53
# Rare Fish (HUC8)	2
# 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	Poor

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy