Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_28-004** **ROXBURY** **Letterkenney Reservoir**

Diadromous Tier	4
Brook Trout Tier	N/A
Resident Tier	6
NID ID	PA01550
State ID	28-004
River Name	Conodoguinet Creek
Dam Height (ft)	60
Dam Type	Earth
Latitude	40.1147
Longitude	-77.6883
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Trout Run-Conodoguinet Creek
HUC 10	Upper Conodoguinet Creek
HUC 8	Lower Susquehanna-Swatara
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.11
% Natural Cover in Upstream Drainage Area	93.5
% Forested in Upstream Drainage Area	93.08
% Agriculture in Upstream Drainage Area	2.7
% Natural Cover in ARA of Upstream Network	91.44
% Natural Cover in ARA of Downstream Network	43.38
% Forest Cover in ARA of Upstream Network	89.24
% Forest Cover in ARA of Downstream Network	37.43
% Agricultral Cover in ARA of Upstream Network	3.37
% Agricultral Cover in ARA of Downstream Network	45.66
% Impervious Surf in ARA of Upstream Network	0.16
% Impervious Surf in ARA of Downstream Network	2.15

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	88.96
% Tree Cover in ARA of Downstream Network	48.01
% Herbaceaous Cover in ARA of Upstream Network	7.79
% Herbaceaous Cover in ARA of Downstream Network	46.57
% Barren Cover in ARA of Upstream Network	0.16
% Barren Cover in ARA of Downstream Network	0.44
% Road Impervious in ARA of Upstream Network	0.23
% Road Impervious in ARA of Downstream Network	1.3
% Other Impervious in ARA of Upstream Network	0.17
% Other Impervious in ARA of Downstream Network	2.21

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_28-004** **ROXBURY** **Letterkenney Reservoir**

Network, System Type and Condition

Functional Upstream Network (mi)	59.9	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	574.22	# Downsteam Natural Barriers	0
Absolute Gain (mi)	59.9	# Downstream Hydropower Dams	5
# Size Classes in Total Network	4	# Downstream Dams with Passage	7
# Upstream Network Size Classes	2	# of Downstream Barriers	7

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	38.36
% Conserved Land in 100m Buffer of Downstream Network	5.59
Density of Crossings in Upstream Network Watershed (#/m2)	0.74
Density of Crossings in Downstream Network Watershed (#/m2)	1.35
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	Potential Current	Downstream Striped Bass	None Documented
Downstream Blueback	Potential Current	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	Potential Curre
# 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)	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	Fair

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

The Nature Conservancy