Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_28-111** **LAKE LETTERKENNY DAM**

Bay-wide Diadromous Tier	18
Bay-wide Resident Tier	10
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	28-111
River Name	
Dam Height (ft)	16
Dam Type	Stone
Latitude	39.9943
Longitude	-77.696
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Rocky Spring Branch
HUC 10	Rocky Spring Branch-Back Creek
HUC 8	Conococheague-Opequon
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	2.47
% Natural Cover in Upstream Drainage Area	60.49
% Forested in Upstream Drainage Area	59.53
% Agriculture in Upstream Drainage Area	7.47
% Natural Cover in ARA of Upstream Network	83.33
% Natural Cover in ARA of Downstream Network	32.81
% Forest Cover in ARA of Upstream Network	77.55
% Forest Cover in ARA of Downstream Network	28.32
% Agricultral Cover in ARA of Upstream Network	1.81
% Agricultral Cover in ARA of Downstream Network	57.38
% Impervious Surf in ARA of Upstream Network	1.43
% Impervious Surf in ARA of Downstream Network	1.63

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	82.5
% Tree Cover in ARA of Downstream Network	37.99
% Herbaceaous Cover in ARA of Upstream Network	11.55
% Herbaceaous Cover in ARA of Downstream Network	57.39
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.64
% Road Impervious in ARA of Upstream Network	2.22
% Road Impervious in ARA of Downstream Network	1.29
% Other Impervious in ARA of Upstream Network	0.53
% Other Impervious in ARA of Downstream Network	1.95

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)	5.04	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	238.82	# Downsteam Natural Barriers	1
Absolute Gain (mi)	5.04	# Downstream Hydropower Dams	1
# Size Classes in Total Network	3	# Downstream Dams with Passage	1
# Upstream Network Size Classes	1	# 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	0
% Conserved Land in 100m Buffer of Downstream Network	4.03
Density of Crossings in Upstream Network Watershed (#/m2)	1.05
Density of Crossings in Downstream Network Watershed (#/m2)	1.28
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	None Documented	Downstream Striped Bass	None Documented
Downstream Blueback	None Documented	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	None Docume
# 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)	42
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	5
# 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

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