Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_36-036** **ECKMAN MILL**

Bay-wide Diadromous Tier	4
Bay-wide Resident Tier	5
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	36-036
River Name	Mill Creek
Dam Height (ft)	8
Dam Type	Stone
Latitude	40.0044
Longitude	-76.3001
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 sq mi
HUC 12	Muddy Run-Mill Creek
HUC 10	Conestoga River
HUC 8	Lower Susquehanna
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	8.52
% Natural Cover in Upstream Drainage Area	11.66
% Forested in Upstream Drainage Area	9.52
% Agriculture in Upstream Drainage Area	63.17
% Natural Cover in ARA of Upstream Network	34.53
% Natural Cover in ARA of Downstream Network	68.66
% Forest Cover in ARA of Upstream Network	31.08
% Forest Cover in ARA of Downstream Network	39.3
% Agricultral Cover in ARA of Upstream Network	40.84
% Agricultral Cover in ARA of Downstream Network	18.36
% Impervious Surf in ARA of Upstream Network	6.08
% Impervious Surf in ARA of Downstream Network	2.98

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	34.95
% Tree Cover in ARA of Downstream Network	43.49
% Herbaceaous Cover in ARA of Upstream Network	53.61
% Herbaceaous Cover in ARA of Downstream Network	26.39
% Barren Cover in ARA of Upstream Network	0.04
% Barren Cover in ARA of Downstream Network	0.07
% Road Impervious in ARA of Upstream Network	1.88
% Road Impervious in ARA of Downstream Network	0.97
% Other Impervious in ARA of Upstream Network	7.84
% Other Impervious in ARA of Downstream Network	4.17

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)	20.23	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	151.15	# Downsteam Natural Barriers	0
Absolute Gain (mi)	20.23	# Downstream Hydropower Dams	2
# Size Classes in Total Network	5	# Downstream Dams with Passage	2
# Upstream Network Size Classes	2	# of Downstream Barriers	2

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	8.8
% Conserved Land in 100m Buffer of Downstream Network	5.97
Density of Crossings in Upstream Network Watershed (#/m2)	1.07
Density of Crossings in Downstream Network Watershed (#/m2)	0.85
Density of off-channel dams in Upstream Network Watershed (#/m2)	0
Density of off-channel dams in Downstream Network Watershed (#/m2)	0.01

Diadromous Fish

Downstream Alewife	Potential Current	Downstream Striped Bass	None Documented
Downstream Blueback	Potential Current	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	Current	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
One or More DS Anadromous Species	Current	# Diadromous Sp Dnstrm (incl eel)	2

Resident Fish and Rare Species

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
Globally rare or fed listed fish/mussel sp HUC12	No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	No

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

Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	No

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