Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_21-009** **HEISHMANS MILL**

Bay-wide Diadromous Tier	1
Bay-wide Resident Tier	8
Bay-wide Brook Trout Tier	N/A
NID ID	PA01730
State ID	21-009
River Name	Conodoguinet Creek
Dam Height (ft)	10
Dam Type	Concrete
Latitude	40.2141
Longitude	-77.3151
Passage Facilities	None Documented
Passage Year	2004
Size Class	3a: Medium Tributary River (200
HUC 12	Big Spring Creek-Conodoguinet
HUC 10	Middle Conodoguinet Creek
HUC 8	Lower Susquehanna-Swatara
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	2.22
% Natural Cover in Upstream Drainage Area	42.18
% Forested in Upstream Drainage Area	40.74
% Agriculture in Upstream Drainage Area	47.34
% Natural Cover in ARA of Upstream Network	43.38
% Natural Cover in ARA of Downstream Network	41.63
% Forest Cover in ARA of Upstream Network	37.43
% Forest Cover in ARA of Downstream Network	29.92
% Agricultral Cover in ARA of Upstream Network	45.66
% Agricultral Cover in ARA of Downstream Network	46.69
% Impervious Surf in ARA of Upstream Network	2.15
% Impervious Surf in ARA of Downstream Network	1.95

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	48.01
% Tree Cover in ARA of Downstream Network	45.46
% Herbaceaous Cover in ARA of Upstream Network	46.57
% Herbaceaous Cover in ARA of Downstream Network	47.86
% Barren Cover in ARA of Upstream Network	0.44
% Barren Cover in ARA of Downstream Network	0.41
% Road Impervious in ARA of Upstream Network	1.3
% Road Impervious in ARA of Downstream Network	1.18
% Other Impervious in ARA of Upstream Network	2.21
% Other Impervious in ARA of Downstream Network	2.09

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)	514.33	Upstream Size Class Gain (#)	1
Total Functional Network (mi)	579.41	# Downsteam Natural Barriers	0
Absolute Gain (mi)	65.08	# Downstream Hydropower Dams	4
# Size Classes in Total Network	4	# Downstream Dams with Passage	6
# Upstream Network Size Classes	4	# of Downstream Barriers	6

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	5.59
% Conserved Land in 100m Buffer of Downstream Network	0.21
Density of Crossings in Upstream Network Watershed (#/m2)	1.35
Density of Crossings in Downstream Network Watershed (#/m2)	0.69
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	Current	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current

Presence of 1 or More Downstream Anadromous Species	Current
# Diadromous Species Downstream (incl eel)	2

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)	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

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