

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_594264**

Union Mills Dam

Black and Decker Manufacturing Com

Bay-wide Diadromous Tier	18
Bay-wide Resident Tier	11
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	MDE176
River Name	Big Pipe Creek
Dam Height (ft)	0
Dam Type	
Latitude	39.6665
Longitude	-77.0084
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Upper Big Pipe Creek
HUC 10	Double Pipe Creek
HUC 8	Monocacy
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.76	% Tree Cover in ARA of Upstream Network	60.69
% Natural Cover in Upstream Drainage Area	39.85	% Tree Cover in ARA of Downstream Network	48.16
% Forested in Upstream Drainage Area	35.01	% Herbaceous Cover in ARA of Upstream Network	37.59
% Agriculture in Upstream Drainage Area	52.32	% Herbaceous Cover in ARA of Downstream Network	49.01
% Natural Cover in ARA of Upstream Network	52.28	% Barren Cover in ARA of Upstream Network	0.01
% Natural Cover in ARA of Downstream Network	37.7	% Barren Cover in ARA of Downstream Network	0.01
% Forest Cover in ARA of Upstream Network	42.54	% Road Impervious in ARA of Upstream Network	0.71
% Forest Cover in ARA of Downstream Network	25.64	% Road Impervious in ARA of Downstream Network	0.78
% Agricultural Cover in ARA of Upstream Network	40.4	% Other Impervious in ARA of Upstream Network	0.72
% Agricultural Cover in ARA of Downstream Network	53.64	% Other Impervious in ARA of Downstream Network	1.47
% Impervious Surf in ARA of Upstream Network	0.53		
% Impervious Surf in ARA of Downstream Network	1.1		

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_594264**

Union Mills Dam

Black and Decker Manufacturing Com

Network, System Type and Condition

Functional Upstream Network (mi)	64.8	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	200.25	# Downstream Natural Barriers	1
Absolute Gain (mi)	64.8	# Downstream Hydropower Dams	0
# Size Classes in Total Network	3	# Downstream Dams with Passage	1
# Upstream Network Size Classes	2	# of Downstream Barriers	3
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	31.16		
% Conserved Land in 100m Buffer of Downstream Network	29.6		
Density of Crossings in Upstream Network Watershed (#/m2)	1.08		
Density of Crossings in Downstream Network Watershed (#/m2)	1.17		
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	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	36
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	3
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	VERY_POOR
MD MBSS Benthic IBI Stream Health	Poor
MD MBSS Fish IBI Stream Health	Fair
MD MBSS Combined IBI Stream Health	Poor
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	N/A

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf