

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_152**

### LOWER BIG BETHEL DAM

Bay-wide Diadromous Tier	4
Bay-wide Resident Tier	15
Bay-wide Brook Trout Tier	N/A
NID ID	VA19902
State ID	152
River Name	Brick Kiln Creek
Dam Height (ft)	23
Dam Type	Gravity
Latitude	37.0936
Longitude	-76.4149
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Northwest Branch Back River
HUC 10	Back River-Lower Chesapeake B
HUC 8	Lynnhaven-Poquoson
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake



#### Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	27.45	% Tree Cover in ARA of Upstream Network	48.6
% Natural Cover in Upstream Drainage Area	24.76	% Tree Cover in ARA of Downstream Network	46.7
% Forested in Upstream Drainage Area	9.1	% Herbaceous Cover in ARA of Upstream Network	12.06
% Agriculture in Upstream Drainage Area	0.01	% Herbaceous Cover in ARA of Downstream Network	22.32
% Natural Cover in ARA of Upstream Network	62.04	% Barren Cover in ARA of Upstream Network	0.04
% Natural Cover in ARA of Downstream Network	31.07	% Barren Cover in ARA of Downstream Network	0.73
% Forest Cover in ARA of Upstream Network	5.63	% Road Impervious in ARA of Upstream Network	7.01
% Forest Cover in ARA of Downstream Network	4.04	% Road Impervious in ARA of Downstream Network	9.1
% Agricultural Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	8.2
% Agricultural Cover in ARA of Downstream Network	0.3	% Other Impervious in ARA of Downstream Network	17.38
% Impervious Surf in ARA of Upstream Network	13.15		
% Impervious Surf in ARA of Downstream Network	23.38		

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric\\_Glossary.pdf](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)	1.55	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	160.47	# Downstream Natural Barriers	0
Absolute Gain (mi)	1.55	# Downstream Hydropower Dams	0
# Size Classes in Total Network	3	# Downstream Dams with Passage	0
# Upstream Network Size Classes	2	# of Downstream Barriers	0
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	13.26		
Density of Crossings in Upstream Network Watershed (#/m2)	2.63		
Density of Crossings in Downstream Network Watershed (#/m2)	0.98		
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	Current	Downstream Striped Bass	None Documented
Downstream Blueback	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	Current		
# Diadromous Species Downstream (incl eel)	3		

## 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)	25
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0

## Stream Health

Chesapeake Bay Program Stream Health	NO_SCORE
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	High
PA IBI Stream Health	N/A

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