Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_774** **YOUNGS POND DAM**

Diadromous Tier	20
Brook Trout Tier	N/A
Resident Tier	7
NID ID	VA76005
State ID	774
River Name	Upham Brook
Dam Height (ft)	15
Dam Type	Buttress
Latitude	37.5981
Longitude	-77.4686
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Upham Brook
HUC 10	Upper Chickahominy River
HUC 8	Lower James
HUC 6	James
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	33.01
% Natural Cover in Upstream Drainage Area	11.46
% Forested in Upstream Drainage Area	9.2
% Agriculture in Upstream Drainage Area	0.18
% Natural Cover in ARA of Upstream Network	25.51
% Natural Cover in ARA of Downstream Network	79.16
% Forest Cover in ARA of Upstream Network	16.64
% Forest Cover in ARA of Downstream Network	23.28
% Agricultral Cover in ARA of Upstream Network	0.2
% Agricultral Cover in ARA of Downstream Network	3.41
% Impervious Surf in ARA of Upstream Network	25.8
% Impervious Surf in ARA of Downstream Network	4.61

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	41.39
% Tree Cover in ARA of Downstream Network	76.14
% Herbaceaous Cover in ARA of Upstream Network	26
% Herbaceaous Cover in ARA of Downstream Network	12.48
% Barren Cover in ARA of Upstream Network	0.14
% Barren Cover in ARA of Downstream Network	0.1
% Road Impervious in ARA of Upstream Network	13.47
% Road Impervious in ARA of Downstream Network	2.59
% Other Impervious in ARA of Upstream Network	18.39
% Other Impervious in ARA of Downstream Network	3.98

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)	17.54	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	526.19	# Downsteam Natural Barriers	0
Absolute Gain (mi)	17.54	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	1
# Upstream Network Size Classes	1	# of Downstream Barriers	1

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	9.74
% Conserved Land in 100m Buffer of Downstream Network	6.45
Density of Crossings in Upstream Network Watershed (#/m2)	2.55
Density of Crossings in Downstream Network Watershed (#/m2)	1.24
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)	62
# Rare Fish (HUC8)	2
# Rare Mussel (HUC8)	1
# 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	High
PA IBI Stream Health	N/A

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