Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_765** **CITY RESERVOIR DAM** **Lee Hall Reservoir Dam**

Diadromous Tier	3
Brook Trout Tier	N/A
Resident Tier	12
NID ID	VA70001
State ID	765
River Name	Warwick River
Dam Height (ft)	21
Dam Type	Gravity
Latitude	37.1719
Longitude	-76.5628
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Warwick River
HUC 10	Pagan River-James River
HUC 8	Lower James
HUC 6	James
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	5.5
% Natural Cover in Upstream Drainage Area	70.57
% Forested in Upstream Drainage Area	50.36
% Agriculture in Upstream Drainage Area	4.23
% Natural Cover in ARA of Upstream Network	39.96
% Natural Cover in ARA of Downstream Network	41.1
% Forest Cover in ARA of Upstream Network	18.87
% Forest Cover in ARA of Downstream Network	14.35
% Agricultral Cover in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	1.14
% Impervious Surf in ARA of Upstream Network	24.33
% Impervious Surf in ARA of Downstream Network	18.03

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	46.93
% Tree Cover in ARA of Downstream Network	51.7
% Herbaceaous Cover in ARA of Upstream Network	13.62
% Herbaceaous Cover in ARA of Downstream Network	16.72
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.01
% Road Impervious in ARA of Upstream Network	8.57
% Road Impervious in ARA of Downstream Network	7.44
% Other Impervious in ARA of Upstream Network	17.48
% Other Impervious in ARA of Downstream Network	13.61

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_765** **CITY RESERVOIR DAM** **Lee Hall Reservoir Dam**

Network, System Type and Condition

Functional Upstream Network (mi)	3.21	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	98.03	# Downsteam Natural Barriers	0
Absolute Gain (mi)	3.21	# 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	54.22
% Conserved Land in 100m Buffer of Downstream Network	28.8
Density of Crossings in Upstream Network Watershed (#/m2)	4.21
Density of Crossings in Downstream Network Watershed (#/m2)	1.84
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	Current
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)	4

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	FAIR
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

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy