## **Chesapeake Fish Passage Prioritization - Dam Fact Sheet**

CFPPP Unique ID: PA\_06-432 UNION FIRE COMPANY

Diadromous Tier 19

Brook Trout Tier N/A

Resident Tier 15

NID ID

State ID 06-432

River Name

Dam Height (ft) 8

Dam Type Concrete
Latitude 40.4769

Longitude -76.2843

Passage Facilities None Documented

Passage Year N/A

Size Class 1a: Headwater (0 - 3.861 sq mi)

HUC 12 Upper Little Swatara Creek

HUC 10 Little Swatara Creek

HUC 8 Lower Susquehanna-Swatara

HUC 6 Lower Susquehanna

HUC 4 Susquehanna







	Land	cover	
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	2.43	% Tree Cover in ARA of Upstream Network	57.39
% Natural Cover in Upstream Drainage Area	37.97	% Tree Cover in ARA of Downstream Network	36.03
% Forested in Upstream Drainage Area	37.46	% Herbaceaous Cover in ARA of Upstream Network	38.66
% Agriculture in Upstream Drainage Area	51.85	% Herbaceaous Cover in ARA of Downstream Network	53.85
% Natural Cover in ARA of Upstream Network	53.06	% Barren Cover in ARA of Upstream Network	0.19
% Natural Cover in ARA of Downstream Network	31.55	% Barren Cover in ARA of Downstream Network	0.54
% Forest Cover in ARA of Upstream Network	52.61	% Road Impervious in ARA of Upstream Network	1.27
% Forest Cover in ARA of Downstream Network	24.78	% Road Impervious in ARA of Downstream Network	1.43
% Agricultral Cover in ARA of Upstream Network	38.06	% Other Impervious in ARA of Upstream Network	1.73
% Agricultral Cover in ARA of Downstream Network	50.68	% Other Impervious in ARA of Downstream Network	5.87
% Impervious Surf in ARA of Upstream Network	2.02		
% Impervious Surf in ARA of Downstream Network	4.85		



## **Chesapeake Fish Passage Prioritization - Dam Fact Sheet**

CFPPP Unique ID: PA 06-432 UNION FIRE COMPANY

# Size Classes in Total Network 4 # Downstream Dams with Passage 5 # Upstream Network Size Classes 1 # of Downstream Barriers 6 NFHAP Cumulative Disturbance Index Very High Dam is on Conserved Land in 100m Buffer of Upstream Network 0.6 % Conserved Land in 100m Buffer of Downstream Network 0.19 % Conserved Land in 100m Buffer of Downstream Network 0.19 Density of Crossings in Upstream Network Watershed (#/m2) 1.27 Density of Crossings in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Upstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel History Shad None Documented Downstream Striped Bass 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 Stream Health VERY_POOR Barrier is in EBTJV BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Native Fish Species Richness (HUC8) 0 PA IBI Stream Health N/A # Rare Fish (HUC8) 0 PA IBI Stream Health N/A	CFPPP Unique ID: <b>PA_06-432</b>	UNION FIRE CON	ЛРAN	Υ				
Total Functional Network (mi) 388.21 # Downstream Natural Barriers 0 Absolute Gain (mi) 3.23 # Downstream Hydropower Dams 4 # Size Classes in Total Network 4 # Downstream Barriers 6 # Upstream Network Size Classes 1 # of Downstream Barriers 6 NFHAP Cumulative Disturbance Index Very High Dam is on Conserved Land in 100m Buffer of Downstream Network 0.6 % Conserved Land in 100m Buffer of Downstream Network 0.19 Density of Crossings in Upstream Network Watershed (#/m2) 1.27 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 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Diadromous Fish Downstream Alewife None Documented Downstream Striped Bass None Documented Downstream Allemican Shad 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 Stream Health VERY_POOR Barrier is in EBTIV BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Native Fish Species Richness (HUC8) 0 PA IBI Stream Health N/A		Network, Sy	stem	Type and Con	dition			
Absolute Galin (mi) 3.23 # Downstream Hydropower Dams 4 # Size Classes in Total Network 4 # Downstream Dams with Passage 5 # Upstream Network Size Classes 1 # of Downstream Barriers 6 NFHAP Cumulative Disturbance Index Very High Dam is on Conserved Land in 100m Buffer of Upstream Network 0.6 % Conserved Land in 100m Buffer of Downstream Network 0.19 Density of Crossings in Upstream Network Watershed (#/m2) 1.27 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 Density of off-channel dams in Downstream 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 Hickory Shad None Documented Downstream Shortnose Sturgeon None Documented Downstream Hickory Shad None Documented Downstream American Eel Current  Resident Fish Stream Health Very_Poor # Rairer is in Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Native Fish Species Richness (HUC8) 0 PA IBI Stream Health N/A Native Fish Species Richness (HUC8) 0 PA IBI Stream Health N/A # Rare Fish (HUC8) 0 PA IBI Stream Health N/A # Rare Fish (HUC8) 0 PA IBI Stream Health N/A	Functional Upstream Network	vork (mi) 3.23		Upstream Size Class Gain (#)			0	
# Size Classes in Total Network 4 # Downstream Dams with Passage 5 # Upstream Network Size Classes 1 # of Downstream Barriers 6 NFHAP Cumulative Disturbance Index Very High Dam is on Conserved Land in 100m Buffer of Upstream Network 0.6 % Conserved Land in 100m Buffer of Downstream Network 0.19 % Conserved Land in 100m Buffer of Downstream Network 0.19 Density of Crossings in Upstream Network Watershed (#/m2) 1.27 Density of Crossings in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Upstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel History Shad None Documented Downstream Striped Bass 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 Stream Health VERY_POOR Barrier is in EBTJV BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Native Fish Species Richness (HUC8) 0 PA IBI Stream Health N/A # Rare Fish (HUC8) 0 PA IBI Stream Health N/A	Total Functional Network (mi)	Network (mi) 388.21		# Downsteam Natural Barriers			0	
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% Conserved Land in 100m Buffer of Upstream Network 0.6 % Conserved Land in 100m Buffer of Downstream Network 0.19 Density of Crossings in Upstream Network Watershed (#/m2) 1.27 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 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream 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 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 (Incl eel) 1  Resident Fish Stream Health VERY_POOR Barrier is in Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A Barrier Blocks an EBTJV Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Native Fish Species Richness (HUC8) 38 VA INSTAR mIBI Stream Health N/A # Rare Fish (HUC8) 0 PA IBI Stream Health Poor # Rare Mussel (HUC8) 2	NFHAP Cumulative Disturband	e Index			Very High			
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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 Stream Health  Barrier is in EBTJV BKT Catchment No Chesapeake Bay Program Stream Health VERY_POOR  Barrier is in Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A  Barrier Blocks an EBTJV Catchment Yes MD MBSS Fish IBI Stream Health N/A  Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A  Native Fish Species Richness (HUC8) 38 VA INSTAR mIBI Stream Health N/A  # Rare Fish (HUC8) 0 PA IBI Stream Health Poor  # Rare Mussel (HUC8) 2	,		•	•	1.24			
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)  Resident Fish Stream Health  Barrier is in EBTJV BKT Catchment No Chesapeake Bay Program Stream Health VERY_POOR  Barrier is in Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A  Barrier Blocks an EBTJV Catchment Yes MD MBSS Fish IBI Stream Health N/A  Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A  Native Fish Species Richness (HUC8)  38 VA INSTAR mIBI Stream Health N/A  # Rare Fish (HUC8)  0 PA IBI Stream Health Poor	Density of off-channel dams in	ı Upstream Network Wa	itersh	ed (#/m2)	0			
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Downstream Blueback  None Documented  Downstream Atlantic Sturgeon  Downstream Atlantic Sturgeon  None Documented  Downstream Shortnose Sturgeon  Downstream American Eel  Current  Presence of 1 or More Downstream Anadromous Species  # Diadromous Species Downstream (incl eel)  Resident Fish  Resident Fish  Barrier is in EBTJV BKT Catchment  No  Barrier is in Modeled BKT Catchment (DeWeber)  Barrier Blocks an EBTJV Catchment  Yes  MD MBSS Fish IBI Stream Health  N/A  MD MBSS Combined IBI Stream Health  N/A  NATIVE Fish Species Richness (HUC8)  ARRIVE Fish (HUC8)  PA IBI Stream Health  Poor		D	iadro	mous Fish				
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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 Stream Health Barrier is in EBTJV BKT Catchment No Chesapeake Bay Program Stream Health VERY_POOR Barrier is in Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health N/A Barrier Blocks an EBTJV Catchment Yes MD MBSS Fish IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Native Fish Species Richness (HUC8) 38 VA INSTAR mIBI Stream Health N/A # Rare Fish (HUC8) 0 PA IBI Stream Health Poor  # Rare Mussel (HUC8) 2	Downstream Blueback	n Blueback None Documented		Downstream Atlantic Sturgeon None Doo			umented	
Presence of 1 or More Downstream Anadromous Species # Diadromous Species Downstream (incl eel)  Resident Fish  Barrier is in EBTJV BKT Catchment  Barrier is in Modeled BKT Catchment (DeWeber)  Barrier Blocks an EBTJV Catchment  Yes  MD MBSS Fish IBI Stream Health  N/A  MD MBSS Fish IBI Stream Health  N/A  MD MBSS Combined IBI Stream Health  N/A  Native Fish Species Richness (HUC8)  Rare Mussel (HUC8)  PA IBI Stream Health  Poor	Downstream American Shad	None Documented		Downstream	Shortnose Sturgeon	None Doc	umented	
Resident Fish  Resident Fish  Barrier is in EBTJV BKT Catchment  Barrier is in Modeled BKT Catchment (DeWeber)  Barrier Blocks an EBTJV Catchment  Barrier Blocks a Modeled BKT Catchment  No  MD MBSS Benthic IBI Stream Health  N/A  MD MBSS Fish IBI Stream Health  N/A  MD MBSS Combined IBI Stream Health  N/A  MD MBSS Combined IBI Stream Health  N/A  NATIVE Fish Species Richness (HUC8)  Rare Fish (HUC8)  Barrier Blocks a Mussel (HUC8)  Barrier Blocks a Modeled BKT Catchment (DeWeber)  Barrier Blocks an EBTJV Catchment  Barr	Downstream Hickory Shad	None Documented		Downstream	American Eel	Current		
Resident Fish  Barrier is in EBTJV BKT Catchment  Barrier is in Modeled BKT Catchment (DeWeber)  Barrier Blocks an EBTJV Catchment  Wes  MD MBSS Benthic IBI Stream Health  N/A  MD MBSS Fish IBI Stream Health  N/A  MD MBSS Combined IBI Stream Health  N/A  MD MBSS Combined IBI Stream Health  N/A  Native Fish Species Richness (HUC8)  WA INSTAR mIBI Stream Health  N/A  PA IBI Stream Health  N/A  Poor	Presence of 1 or More Downs	tream Anadromous Spe	cies	None Docum	e			
Barrier is in EBTJV BKT Catchment  No Chesapeake Bay Program Stream Health  N/A  MD MBSS Benthic IBI Stream Health  N/A  MD MBSS Fish IBI Stream Health  N/A  MD MBSS Fish IBI Stream Health  N/A  MD MBSS Fish IBI Stream Health  N/A  MD MBSS Combined IBI Stream Health  N/A  NA  NA  Native Fish Species Richness (HUC8)  # Rare Fish (HUC8)  D  Chesapeake Bay Program Stream Health  N/A  MD MBSS Combined IBI Stream Health  N/A  N/A  PA IBI Stream Health  Poor  # Rare Mussel (HUC8)  2	# Diadromous Species Downs	tream (incl eel)		1				
Barrier is in Modeled BKT Catchment (DeWeber)  No  MD MBSS Benthic IBI Stream Health  N/A  MD MBSS Fish IBI Stream Health  N/A  MD MBSS Fish IBI Stream Health  N/A  MD MBSS Combined IBI Stream Health  N/A  Native Fish Species Richness (HUC8)  # Rare Fish (HUC8)  PA IBI Stream Health  Poor  # Rare Mussel (HUC8)	Resident Fish			Stream Health				
Barrier Blocks an EBTJV Catchment Yes MD MBSS Fish IBI Stream Health N/A Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health N/A Native Fish Species Richness (HUC8) 38 VA INSTAR mIBI Stream Health N/A # Rare Fish (HUC8) 0 PA IBI Stream Health Poor # Rare Mussel (HUC8) 2	Barrier is in EBTJV BKT Catchment No		No	Chesap	Chesapeake Bay Program Stream Health VERY_POOR			
Barrier Blocks a Modeled BKT Catchment (DeWeber) No  Native Fish Species Richness (HUC8)  # Rare Fish (HUC8)  MD MBSS Combined IBI Stream Health  N/A  VA INSTAR mIBI Stream Health  Poor  # Rare Mussel (HUC8)  2	Barrier is in Modeled BKT Catchment (DeWeber) No		No	MD MB			N/A	
Native Fish Species Richness (HUC8)  # Rare Fish (HUC8)  # Rare Mussel (HUC8)  38  VA INSTAR mIBI Stream Health  Poor  Poor	Barrier Blocks an EBTJV Catchment Yes		Yes	MD MB	MD MBSS Fish IBI Stream Health		N/A	
# Rare Fish (HUC8) 0 PA IBI Stream Health Poor # Rare Mussel (HUC8) 2	Barrier Blocks a Modeled BKT Catchment (DeWeber) No		No	MD MB	MD MBSS Combined IBI Stream Health N/A			
# Rare Mussel (HUC8) 2	Native Fish Species Richness (HUC8) 38		38	VA INST	VA INSTAR mIBI Stream Health			
	# Rare Fish (HUC8)		0	PA IBI S	Stream Health		Poor	
# Rare Crayfish (HUC8) 0	# Rare Mussel (HUC8)		2					
	# Rare Crayfish (HUC8)		0					

