# Anacostia Watershed Restoration, Prince George's County, Maryland

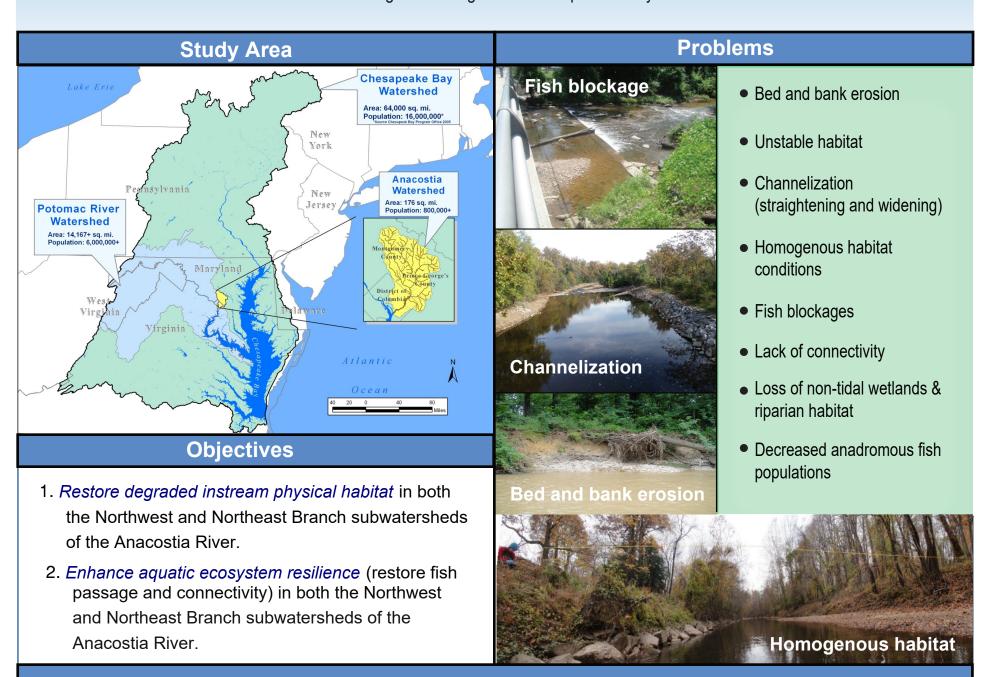
## Sponsor:

Prince George's County Department of the Environment



## Study Purpose

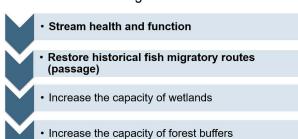
The purpose of the recommended plan is to restore ecological function, structure, and health in selected stream reaches in the Anacostia River watershed in Prince George's County. Restoration is needed because human alteration of the Anacostia River watershed has resulted in significant degradation of aquatic ecosystems over time.



#### Value to the Nation

#### Supports:

- Chesapeake Bay Executive Order
- Chesapeake Bay Program outcomes
- Anacostia Restoration Plan goals
- NOAA River Herring Conservation Plan



Anadromous fish populations at historic lows

**Project restores access** to anadromous fish habitat:

**Northwest Branch** currently used miles **Northeast Branch** currently used miles

Miles available to fish after project! 90%

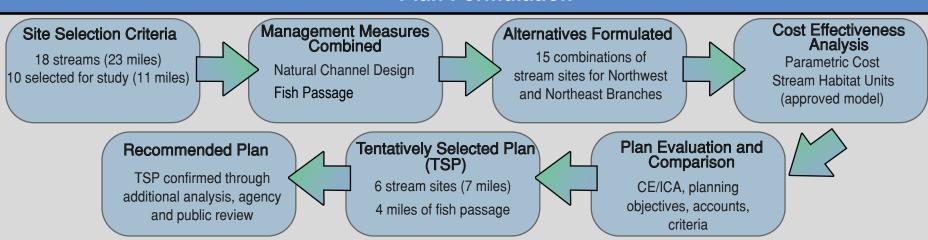
(% of historical range)

Important fish species: alewife, blueback herring, American shad, hickory shad, American eel

(American shad)

## Healthy $\implies$ habitat $\longrightarrow$ Healthy habitants $\blacktriangleleft \bowtie$

#### **Plan Formulation**



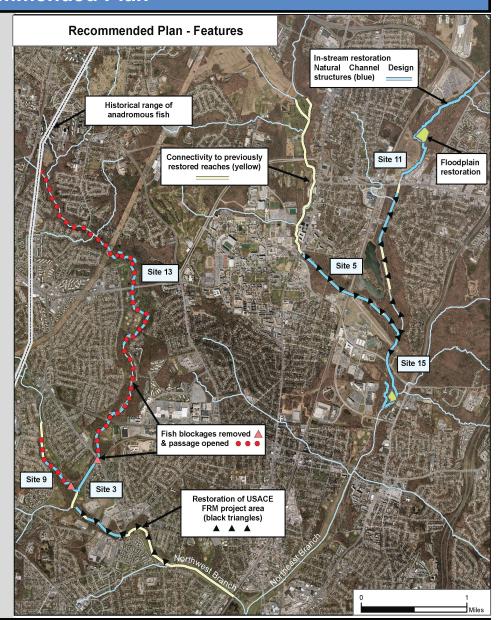


### The Recommended Plan

- Restores approximately 7 miles of instream habitat in Northeast and Northwest Branches
- Restores approximately 4 miles of fish passage through blockage removal
- Connects 14 miles of restored habitat and links to 11 miles of higher-quality habitat upstream
- Restores instream habitat at all four sites degraded by a 1970s USACE flood risk management project
- Enhances prior federal investments by incorporating USACE restoration projects (e.g., Paint Branch CAP Section 206, Northwest Branch CAP Section 1135)

#### **Environmental Compliance:**

- ✓ All coordination complete (Endangered Species Act, U.S. Fish and Wildlife Service Coordination Act Report, Section 106)
- Meets terms & conditions of Nationwide Permit 27
- Supported by state and federal resource agencies



#### **Cost Summary** \$34,106,000 **Project Total First Cost** \$22,169,000 **Project Total Federal Share (65%) Project Total Non-Federal Share (35%)** \$11,937,000 100% Lands and Damages \$360,000 100% Relocations \$897,000 Cash Balance \$10,680,000 **Investment Cost Total Project Construction Costs** \$34,106,000 **Interest During Construction** \$406,000 **Total Investment Costs** \$34,512,000 **Average Annual Costs** Interest and Amortization \$1,309,700 \$22,000 OMRR&R \$1,331,700 **Total Average Annual Costs Average Annual Benefit** Project Specific Stream Habitat Units\* 3.92 Aggregate Stream Habitat Units 34.35 38.27 Total Average Annual Benefits \* Stream habitat units = stream quantity x stream quality

## Plan Features - Example



## **Comprehensive Restoration Strategy**

