Long Branch Central Watershed Management Area

Project Overview
Braddock District

Department of Public Works and Environmental Services
Working for You!

A Fairfax County, VA, publication
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Agenda

- Introductions
- Project Overview (DPWES)
- Biohabitats Presentation of Field Work and Project Implementation Plan Development
- Roles
  - NVSWCD
  - FCPA
  - Friends of Long Branch
  - FACC
  - Earth Sangha
  - Individuals & Other Groups
- Stakeholder Objectives
  - What do you/your group/org want to get out of this project?
  - Critical issues
- Discussion

Undermined Trail Culvert:
Long Branch Tributary Between Rockcrest Dr & Braeburn Dr

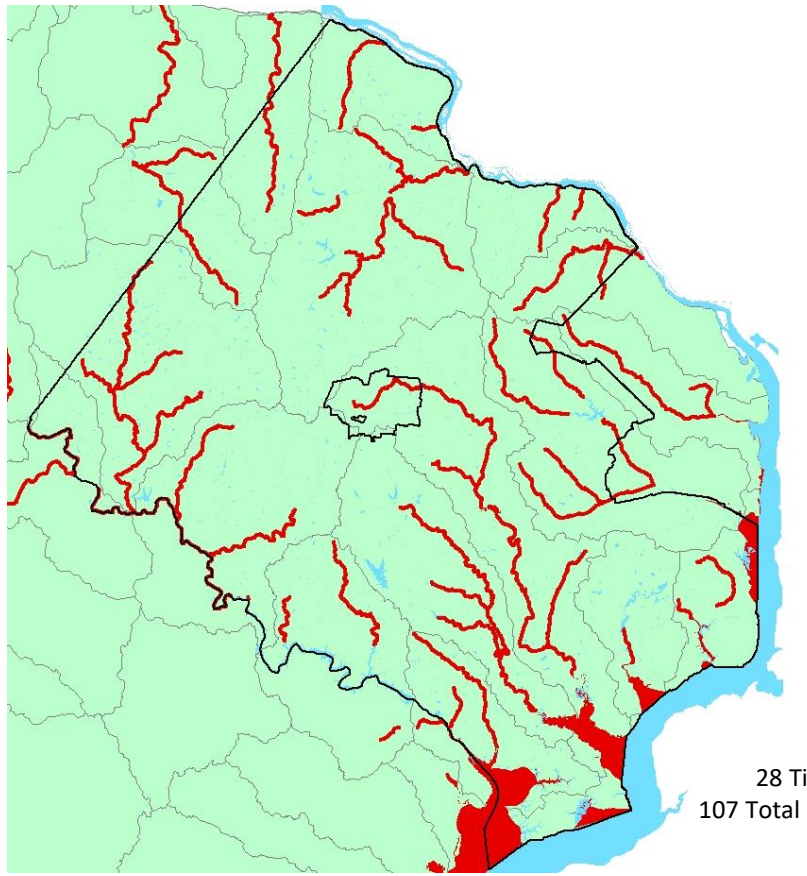
Major Stormwater Project Drivers

1. **Chesapeake Bay TMDL**
   Pollutant Load Reduction Requirements
   a) Nitrogen: 59,400 pounds/year
   b) Phosphorous: 6,500 pounds/year
   c) Sediment: 2,700 tons/year

2. **Local TMDL's**
   a) Sediment (4)
   b) Bacteria (7)
   c) PCB's (tidal portions of Potomac River)
   d) Chloride (1)

3. **105 Impaired Waterbodies**

2016 Impaired Waters

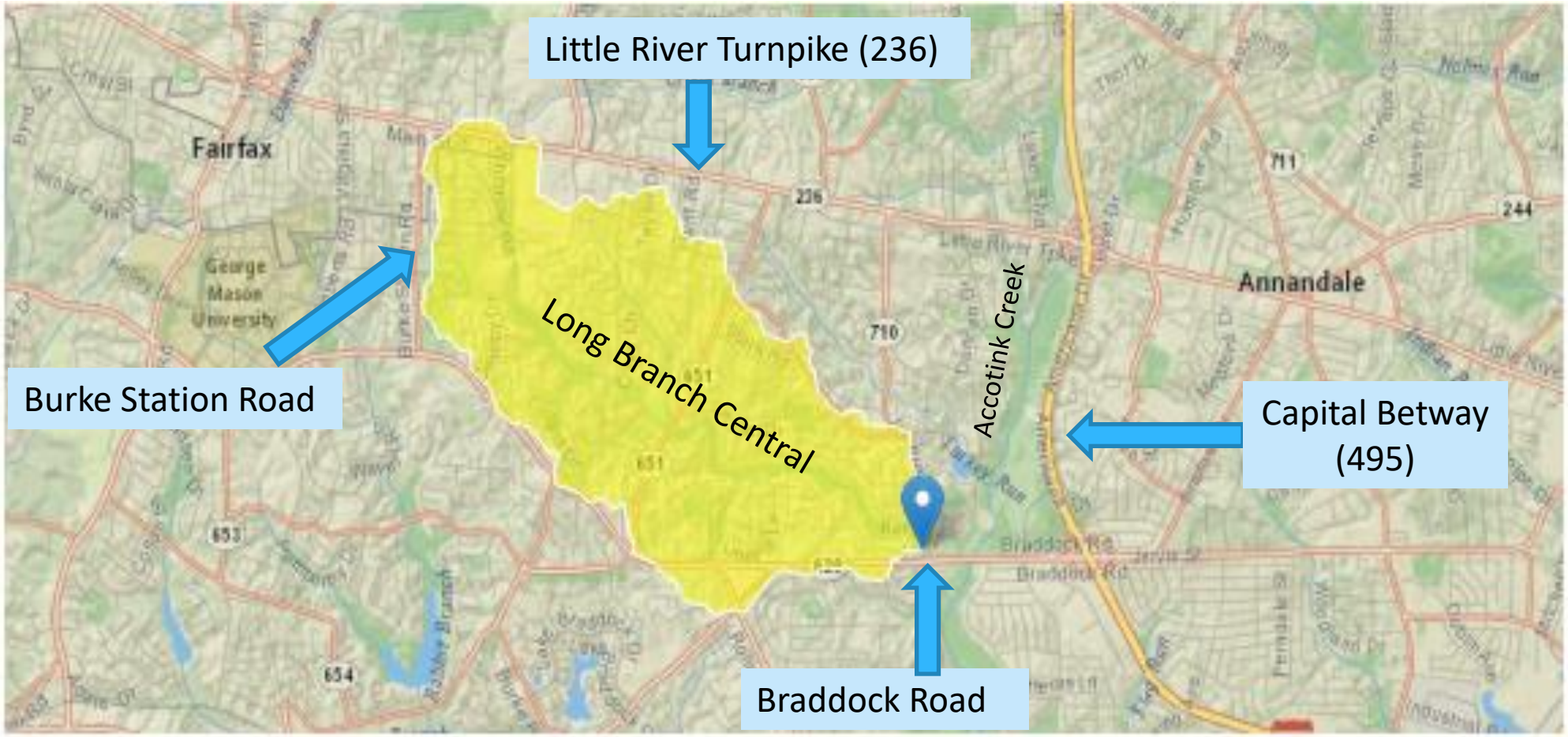


77 Streams
5 Reservoirs
28 Tidal Embayments
107 Total Impaired Waters

Project Location

Long Branch Central Watershed

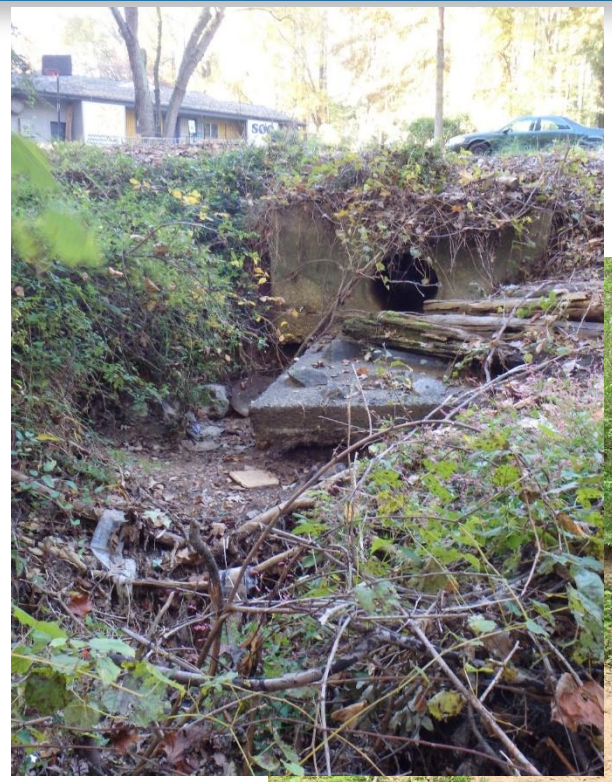
3.71 Square Miles - 8 Miles of Streams



Project Overview

Project Goals:

- Achieve Long Branch Central TMDL waste load reduction requirements.
- Provide long-term stability and have low maintenance.
- Improve water quality within the Long Branch Central watershed.
- Improve habitat and environmental health (ecological lift).



Degraded Outfall: Long Branch at Laurel Street

Failed Stream Bank: Long Branch near Olde Creek Elementary School

Who's Involved

- County Agencies
  - DPWES
  - FCPA
  - NVSWCD
  - FCPS
- Design Consultant: Biohabitats, Inc.
- Braddock District Supervisor's Office
- Identified Stakeholder Groups:
  - Friends of Long Branch
  - Friends of Accotink Creek
  - Earth Sangha
  - Stone Haven Civic Association
  - Canterbury Woods Civic Association
  - Red Fox Civic Association
  - Rutherford Civic Association
- Residents

Relative Stability & Bank Erosion:
Long Branch Main Stem Downstream of Guinea Road

Project Team

Long Branch Central WMA Key Participants

Northern Virginia Soil & Water Conservation District

Laura Grape
Executive Director

Judy Fraser
Conservation Assistance Program Coordinator

Fairfax County Park Authority

Samantha Wangsgard
Project Manager – Planning and Development

Ed Richardson
Manager, Area 4 Management – Park Operations

John Burke
Manager, Natural Resources Branch – Resource Management

Tami Sheiffer
Watch the Green Grow Coordinator– Resource Management

Department of Public Works & Environmental Services

Charles Smith
Project Manager – Stormwater

Meghan Fellows
Project Manager - Stormwater

Jonathan Witt, Chris Ruck, Dionna Bucci
Aquatic Ecologists – Stormwater

Jack Meritt
Engineer IV – Stormwater Infrastructure

Tom Richardson
Sanitary Sewer Coordination – Wastewater

Biohabitats Team

Jennifer Zielinski Missett
Project Manager

Joe Berg
Principal in Charge

Rebecca Winer-Skonovd
Watershed Planning Lead

Greg Zuknick
Assessment Lead

Doug Streaker
Restoration Design Lead

Sarah Roberts
Monitoring Lead

Braddock District Supervisor

Marcia Pape
Senior Legislative Aide

Brian Garcia
Communications Director

Key Stakeholder Groups

Friends of Long Branch

Friends of Accotink Creek

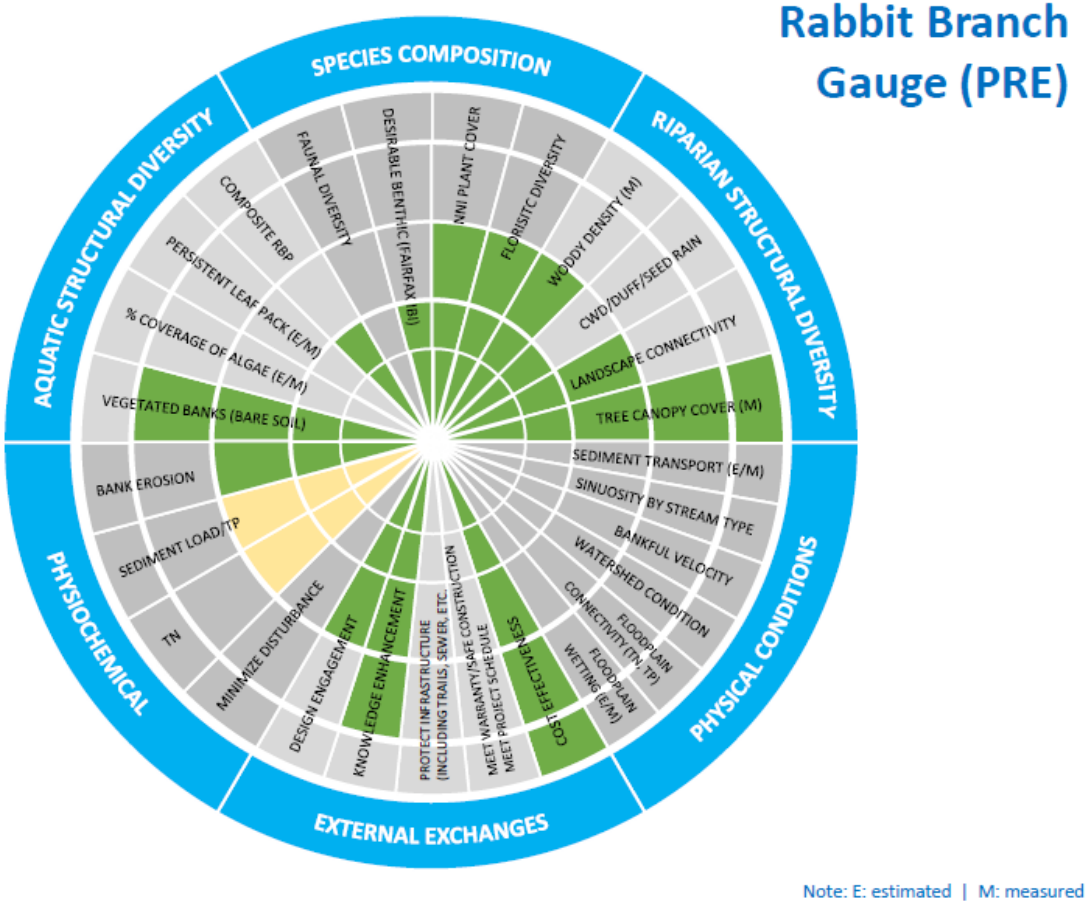
Homeowner & Civic Associations

Project Schedule

- Begin Assessment – Fall 2020
- Complete Restoration Work Plan – Summer 2021
- Complete First Construction Plans – Fall 2022
- Begin Construction – Spring 2023
- Construction Ongoing – Through 2028
- Warranty, Monitoring and Maintenance – 2025 through 2031

Massive Bank Erosion: Long Branch Tributary in Old Forge Park

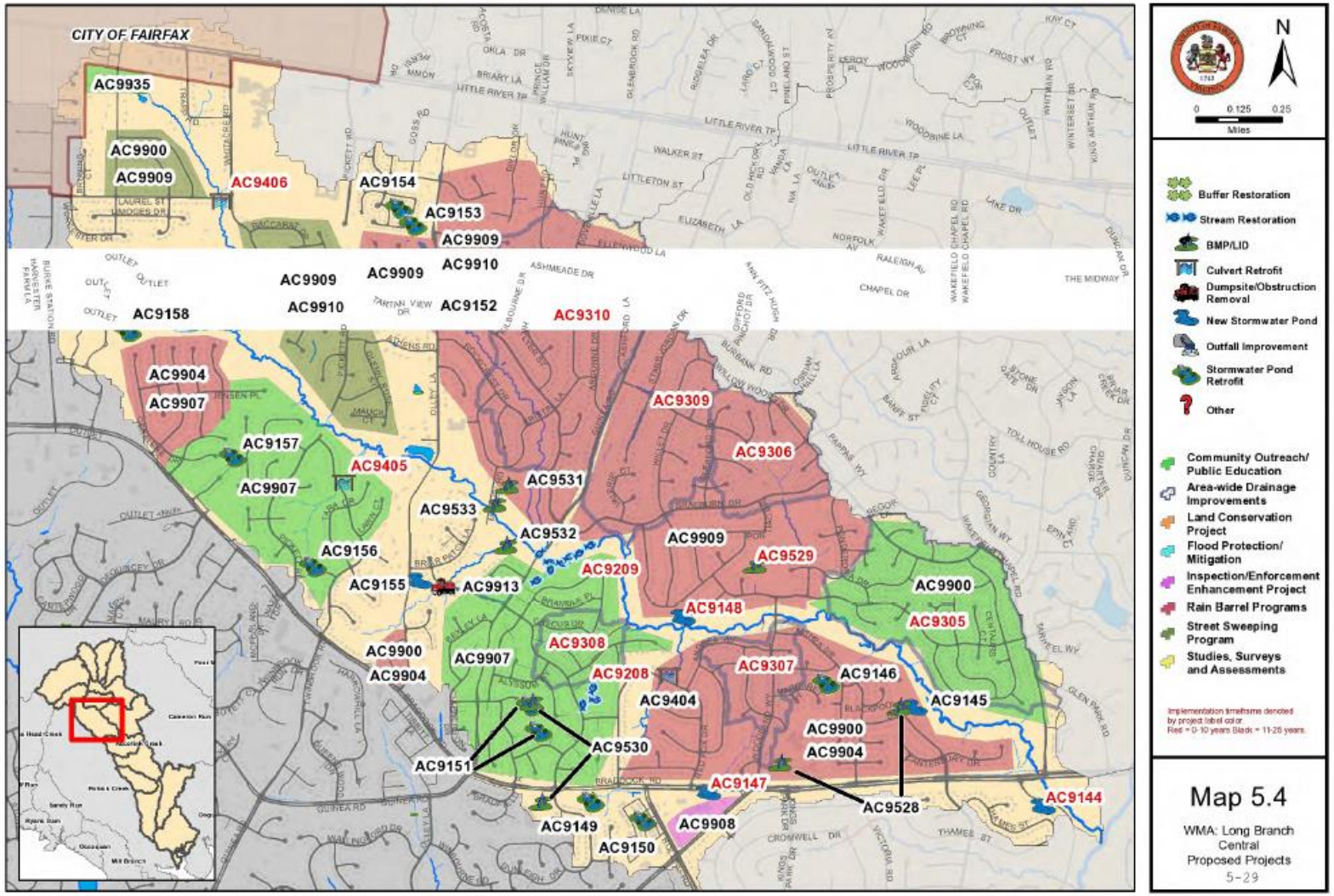
Ensuring Projects Meet Goals



Ecological Recovery Wheel (Example):
Planning Tool Developed by Fairfax County Stormwater

- Use data on resource condition to establish goals for each restoration area
- Ensure goals reflect stakeholder values, ecological needs & project drivers
- Create metrics to measure outcomes
- Establish monitoring program to track progress and report to community
- Conduct corrective maintenance as needed

Building on Existing Plan



- Review proposed projects from Accotink Watershed Management Plan
  - 32 Structural Projects (stream restoration, stormwater pond retrofits, etc.
  - 8 Non-structural Projects (Community outreach, rain barrels, etc.)
- Update conditions information for Long Branch Central
- Include stakeholder input
- Identify Project Leads
  - Streams & outfalls – DPWES
  - Non-structural – Partners
  - Future projects – beyond scope of WMA
- Develop implementation schedule