

FONT HILL STREAM RESTORATION — CENTENNIAL LANE WEST

DESIGN BUILD STREAM RESTORATION PROJECT

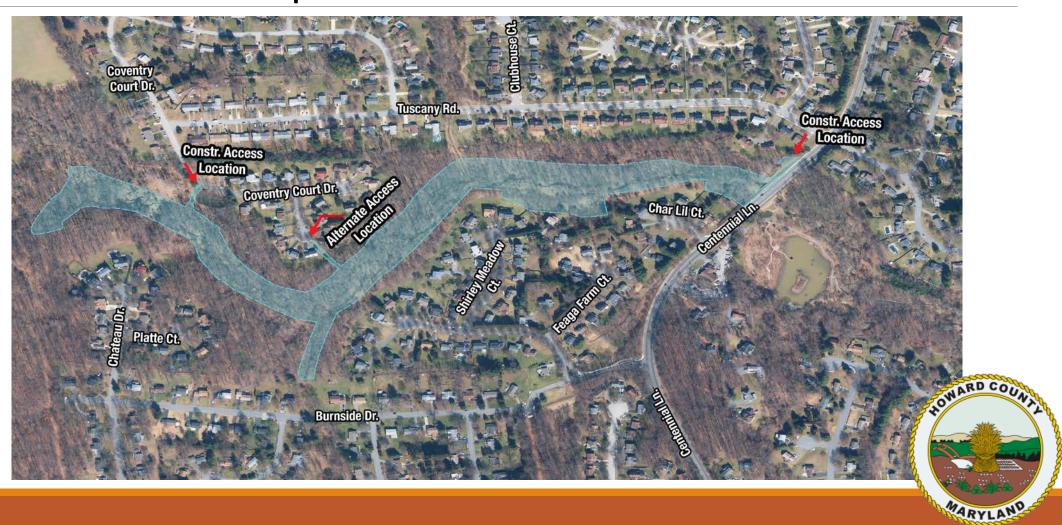
PUBLIC MEETING - NOVEMBER 30, 2017

Agenda

- Welcome and Introductions
- Project Background
- Proposed Design
- Construction Process
- Schedule
- Question and Answer Session



Location Map



Welcome and Introductions



Brian Cleary, PE *Project Manager, Howard County*



Frank BubczykStream Restoration Designer, JMT



Rick ScaffidiStream Restoration Contractor, EQR



Environmental Quality Resources

- Since 1991 26 years, 26 crews
- Hundreds of miles stream restoration
- Over 5,000 acres wetland mitigation
- Over 3,000,000 native trees planted









Johnson, Mirmiran & Thompson

- Since 1971 45 years, 1,400 professionals
- Over 80 Water Resources & Environmental Specialists
- Designer of the Upper Little Patuxent (ULP)
 Design-Build Stream Restoration









Why is Stream Restoration Needed?

Improve Ecology

- Plant Trees, Remove Invasive Species
- Pollinators, Birds, and Other Wildlife

Chesapeake Bay TMDL

Reduce Sediment and Nutrient Pollution

Flooding

- Lower or Maintain 100-year Floodplain Elevation
- Reduce Flood Velocity Improve Ecology

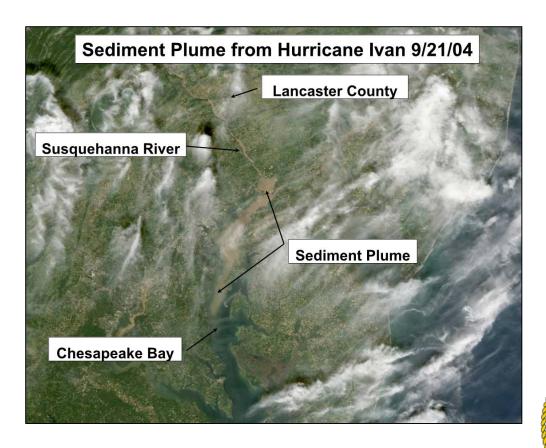






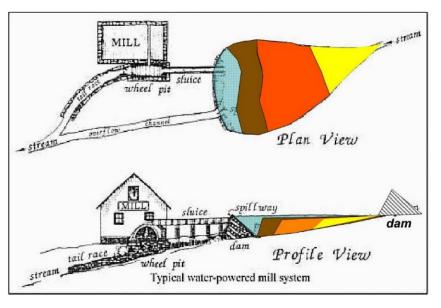
Why is Stream Restoration Needed?

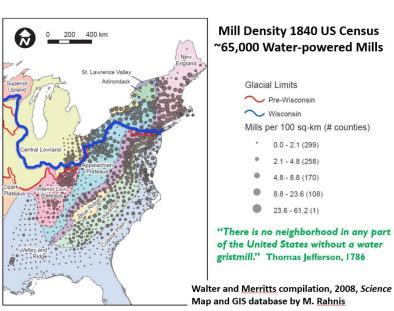


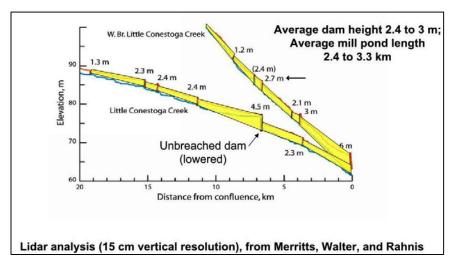




Past Impacts









Past Impacts

Few (if any) local, unimpacted systems remaining









The Evidence













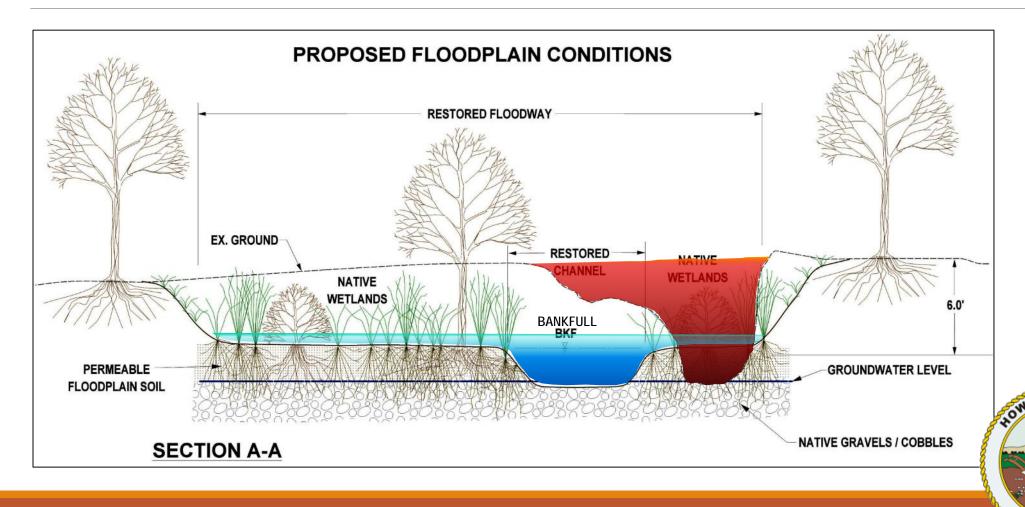




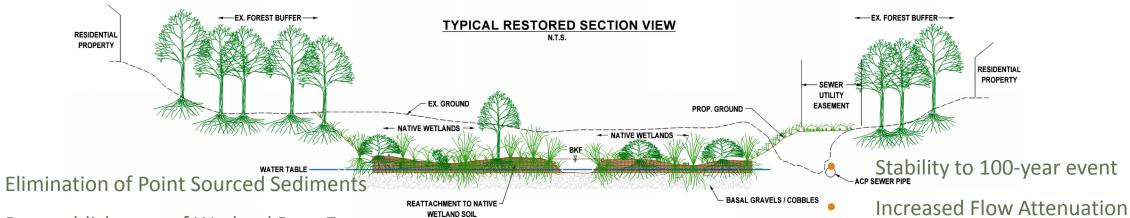
Why is Stream Restoration Needed?



Proposed Design



Proposed Design



- Re-establishment of Wetland Root Zone
- Wetland Enhancement/Creation
- Increased Hydraulic Recharge
- Hyporheic Connection

- Repurposing of Renewable Resources
- In stream facet restoration and habitat
- Thermal buffering
- **Carbon Sequestering**
- **Substrate Restoration**

Floodplain & Channel Diversity

Significant Nutrient Reductions

Aesthetic and Educational Value



Restoration?

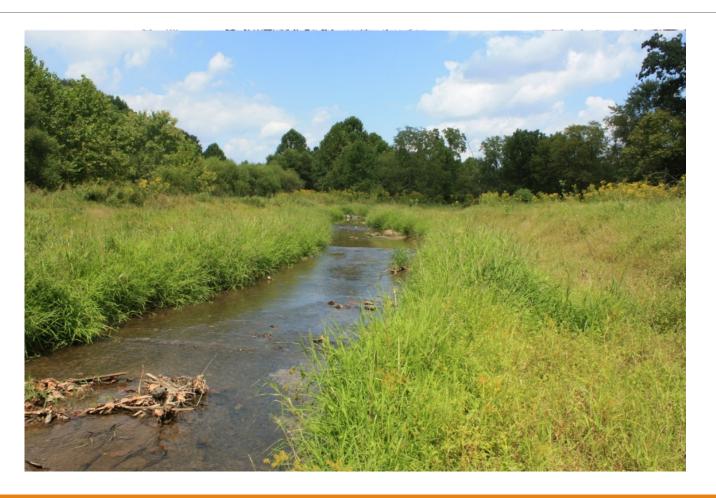
- Reduce the amount of imported / unnatural materials
- Reduced costs quarry shortages
- Ease of construction
- Least carbon emissions and climateresilient design of the approaches, focusing on restoration with native geology





Approx. \$1.5 million restoration

Upper Little Patuxent Stream Restoration





Upper Little Patuxent Stream Restoration









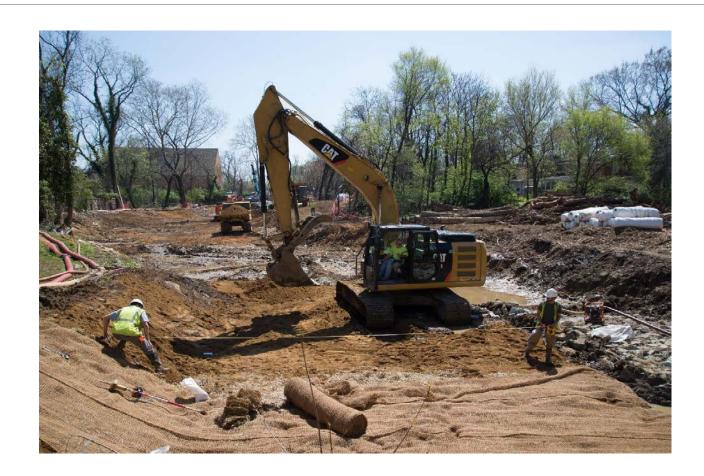
What to Expect:

- Safe and efficient construction process
- Work starting at Centennial Lane
- Process is phased to minimize disturbance and time in each section
- Significant buffer remains between the residents and construction operation
- Site is kept clean, and follows all local, state, and federal regulations



Project: Nash Run

Construction Equipment





Project: Dead Run

Stabilize active channel at the end of each day





Project: Nash Run

Minimize noise, vibration, and dust





Project: Scotts Level Branch

Typical Construction Hours: 7 a.m. – 5 p.m. weekdays





Project: Goose Creek

Tree removal and replanting





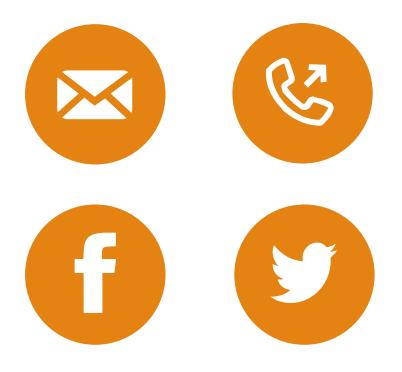
Project Schedule

Item	Timeframe
Public Comment Period	Now - December 15, 2017
Next Design Milestone	March 2018
Next Public Meeting	Spring/Summer 2018
Construction	September 2018

Questions?



Contact Us



Brian F. Cleary
DPW Stormwater Management Division
(410) 313-6455
bcleary@howardcountymd.gov

https://www.howardcountymd.gov/Departments/Public-Works/Bureau-Of-Environmental-Services/Stormwater-Management

