

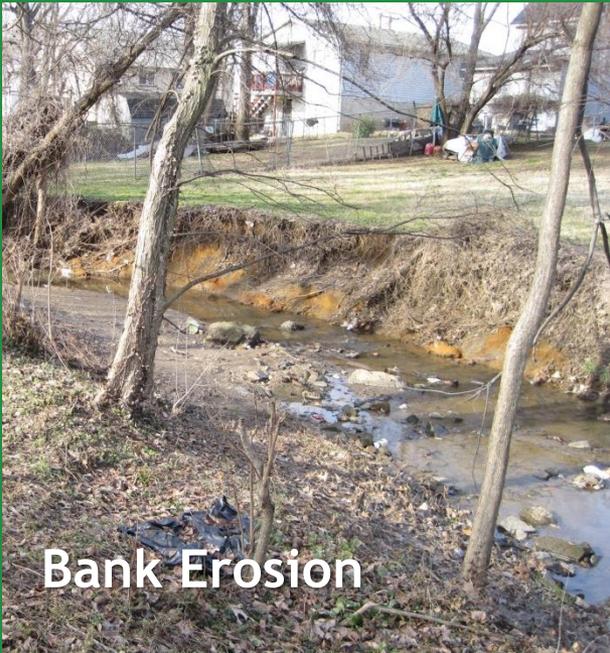
Stream Restoration

The District's Streams

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Stream Problems



Chesapeake Bay Watershed

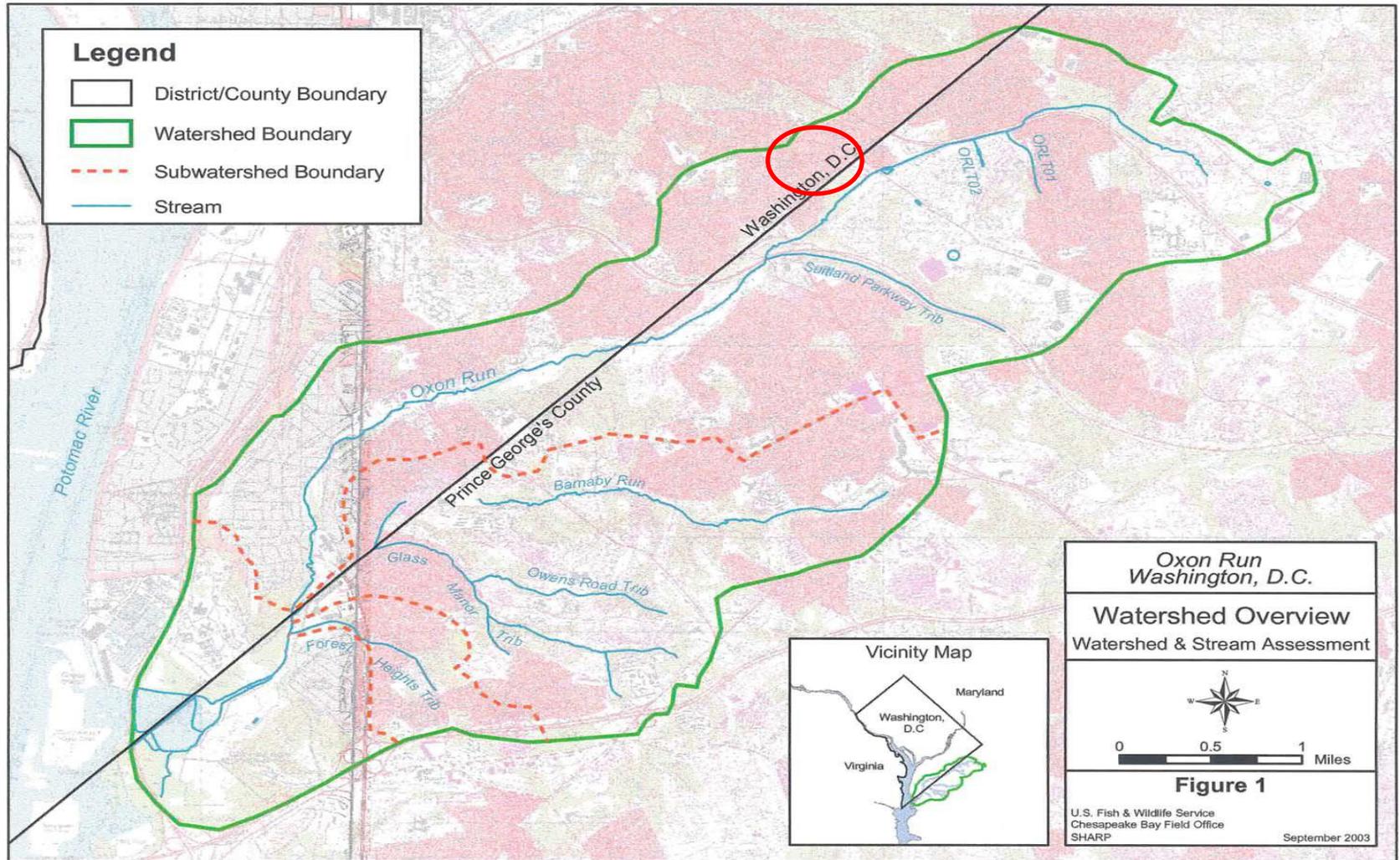
Watershed States



Sediment in the Bay



Oxon Run Watershed

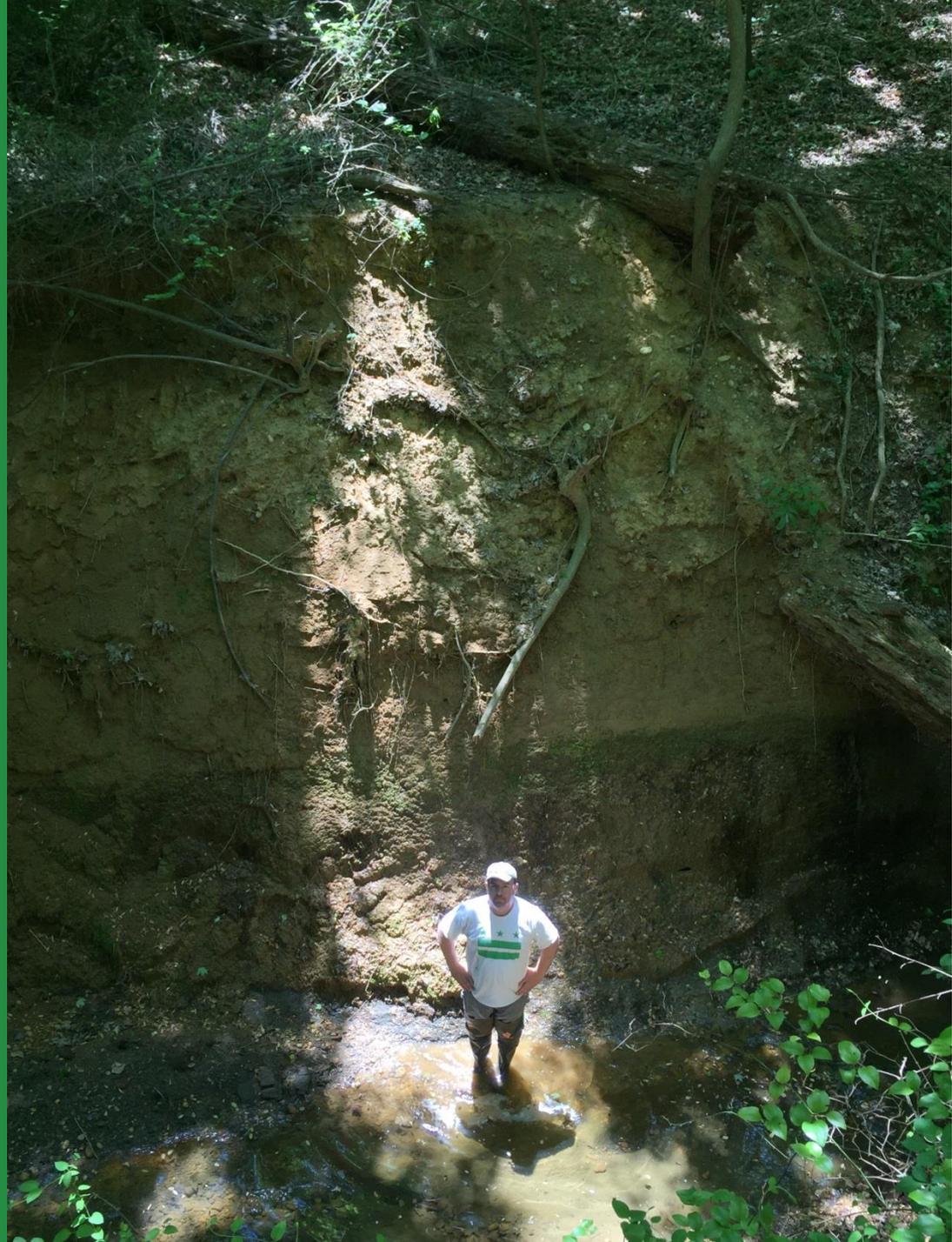


Drainage Area to Park Space

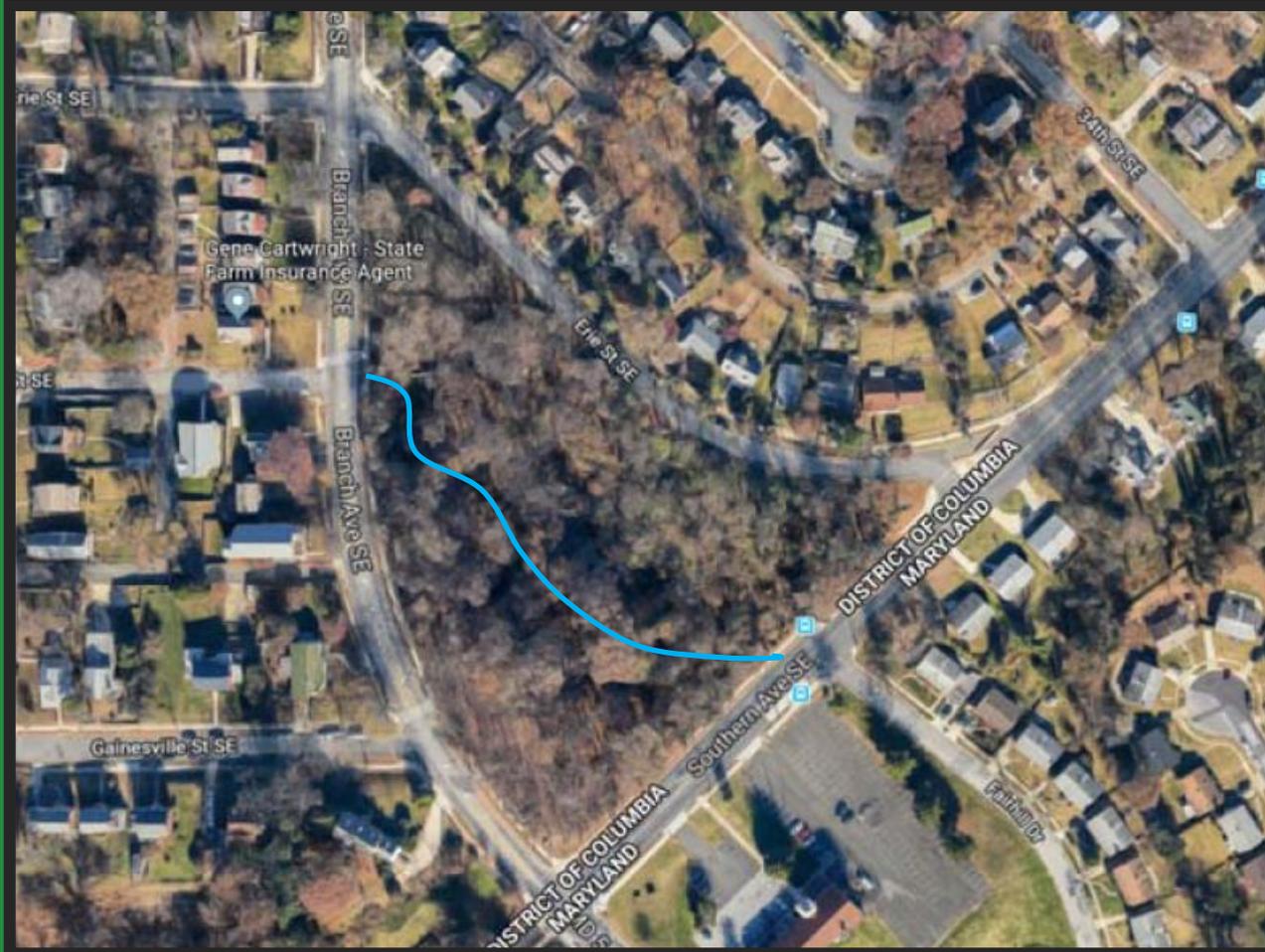


Watershed Characteristics

- 55 Acres
- 21 Acres
Impervious
- Single Family
Residential



Project Site



Stormwater Outfall Pipe



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Stream Characteristics

1. High Stormwater Influence
2. Deeply Incised
3. High Rate of Bank Erosion
4. Poor In-Stream Habitat

Key Goals

1. Prevent Erosion
2. Improve Water Quality
3. Enhance In-Stream & Riparian Habitat
4. Protect & Repair Infrastructure



Project Timeline

- RFP Posted for Bids
 - March 13, 2018
- RFP Close Date
 - April 30, 2018
- Estimated Contract Award:
 - August/September 2018
- Design Phase
 - 1-1.5 Years (Fall 2018-Winter 2019)
- Construction Phase
 - 6 months (Spring 2019-Fall 2019)
- Post Construction Maintenance
 - 2 Years (Fall 2019-2021)



Restoration Step-by-Step



Key Challenges

1. Design & Permitting
2. Rising Costs
3. Access
4. Construction Phase
5. Post-Restoration





Pope Branch/Alger Park – Regenerative Stream Channel Design

- 1.Reconnect to Historic Floodplain
- 2.In-stream nutrient processing
- 3.Enhance In-Stream Habitat
- 4.Improve Riparian Corridor
- 5.Protect Infrastructure

Successes

1. 20,000 feet of stream restored
2. Pollutant Load Reductions to Anacostia, Potomac, & Chesapeake Bay
3. Restored Native Vegetation
4. Private and Public Space LID Projects
5. Improved Fish Passage Corridors
6. Recreational Stream Corridors



Questions?

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