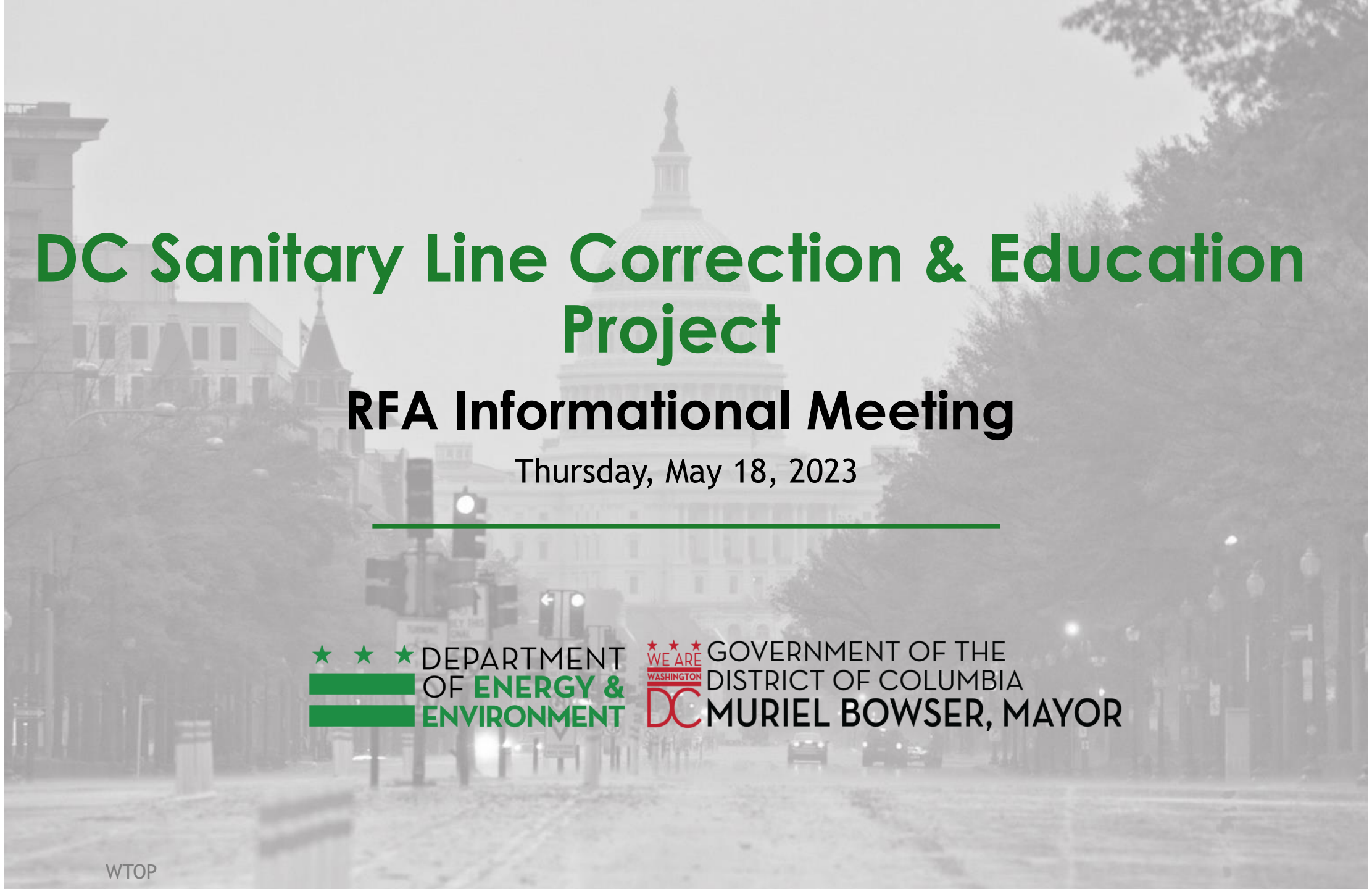
DC Sanitary Line Correction & Education Project

RFA Informational Meeting

Thursday, May 18, 2023

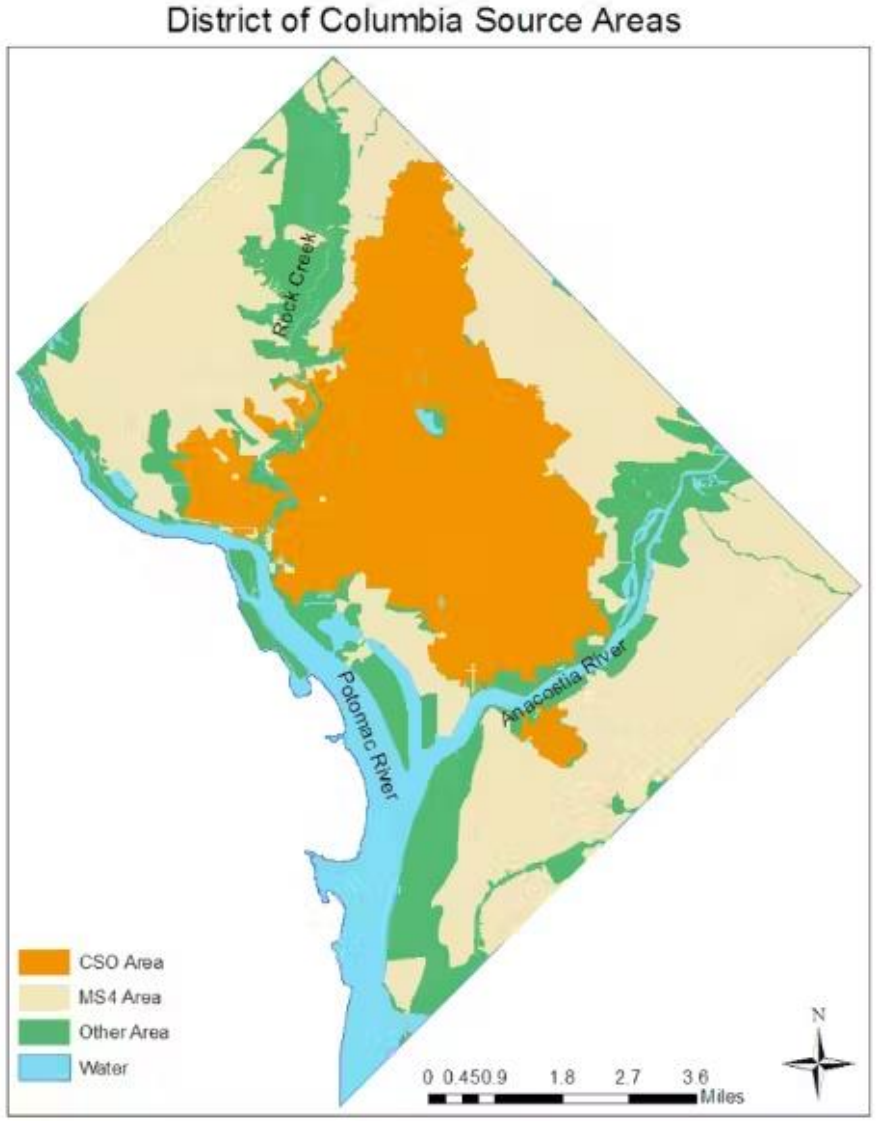
DEPARTMENT OF ENERGY & ENVIRONMENT

GOVERNMENT OF THE DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR



Who are we?

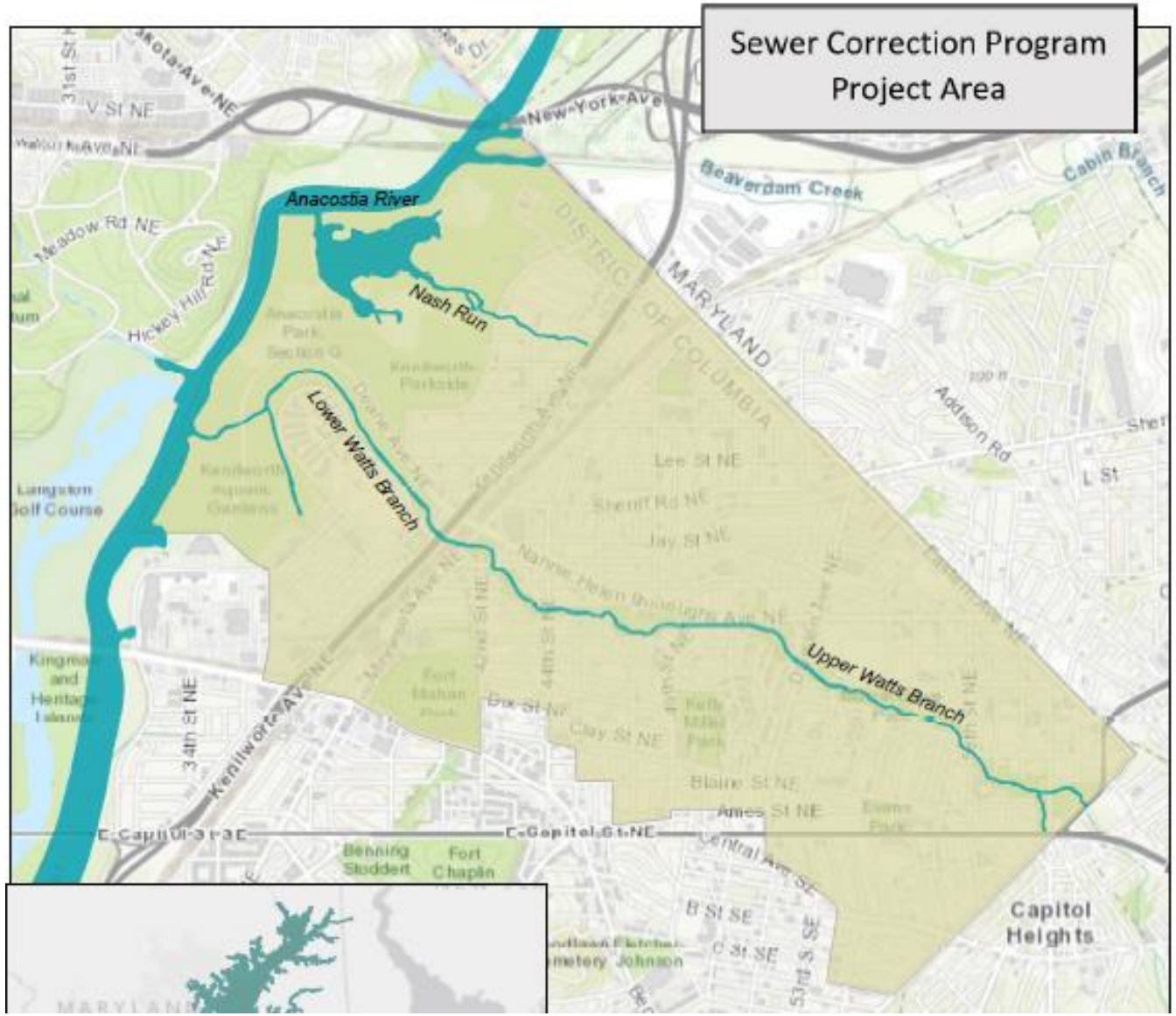
- Inspectors of anything & everything MS4 (Municipal Separate Storm Sewer System)
  - Illicit discharges
  - Critical source facility inspections
  - Dry weather outfall screening



- DC Sanitary Line Correction and Education Project
  - Reducing pollution loads by correcting illicit sanitary connections to the Municipal Separate Storm Sewer System
  - Provide preventative outreach to educate residents on getting plumbing work properly

Project Location:

- Nash Run and Watts Branch Sewershed
- Little less than half of Ward 7
- Includes:
  - Deanwood
  - Burrville
  - Lincoln Heights
  - Grant Park
  - Hill Brook



Background: Previous Investigation Efforts

- Recurring reports of sanitary discharges
- Initial source tracking- dry weather flow, wildlife camera, manhole booms, sampling
- Dye Testing with contractor
- Door to Door outreach/pamphlets

Five known residential properties found with illicit sewer connections

Impacted Water Bodies

Watts Branch

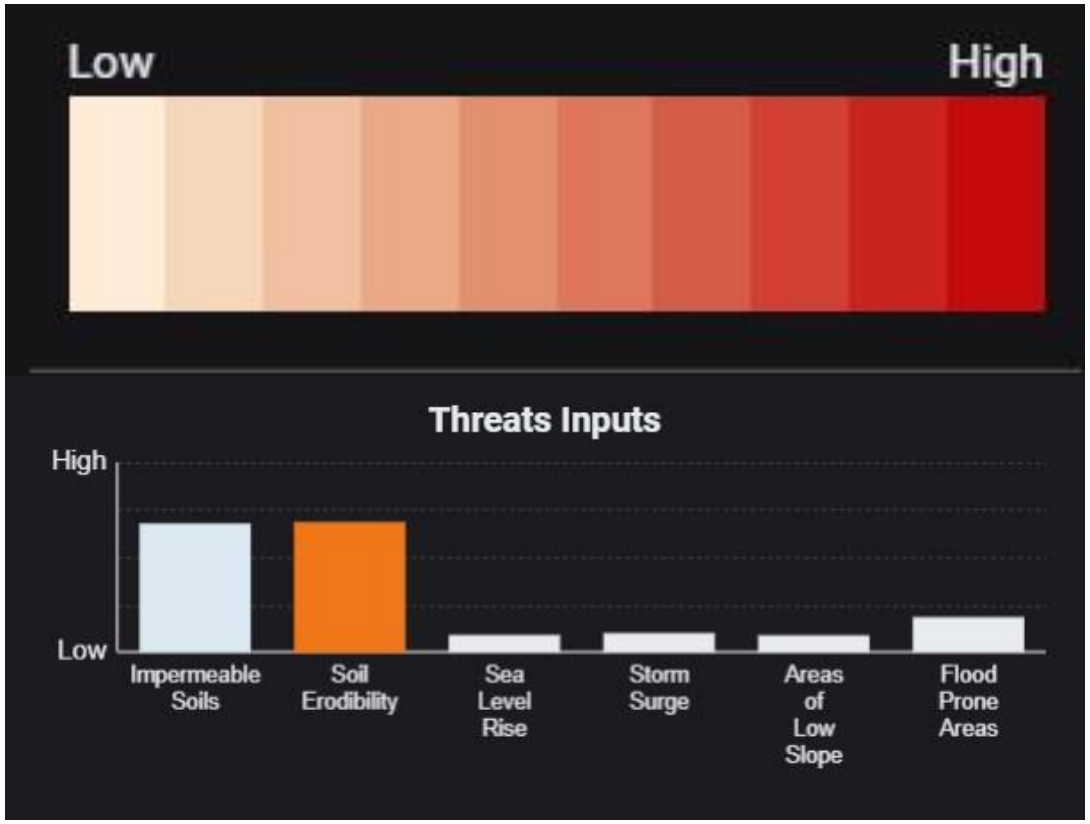
- Listed in 1996 for failing to support two designated uses: (1) the protection and propagation of fish, shellfish and wildlife and (2) the protection of human heath related to consumption of fish and shellfish. **Impairment was attributed to a number of pollutants, including TSS**
- Tributary of Anacostia
- 60 outfalls
- 4920.52 Acres in project area

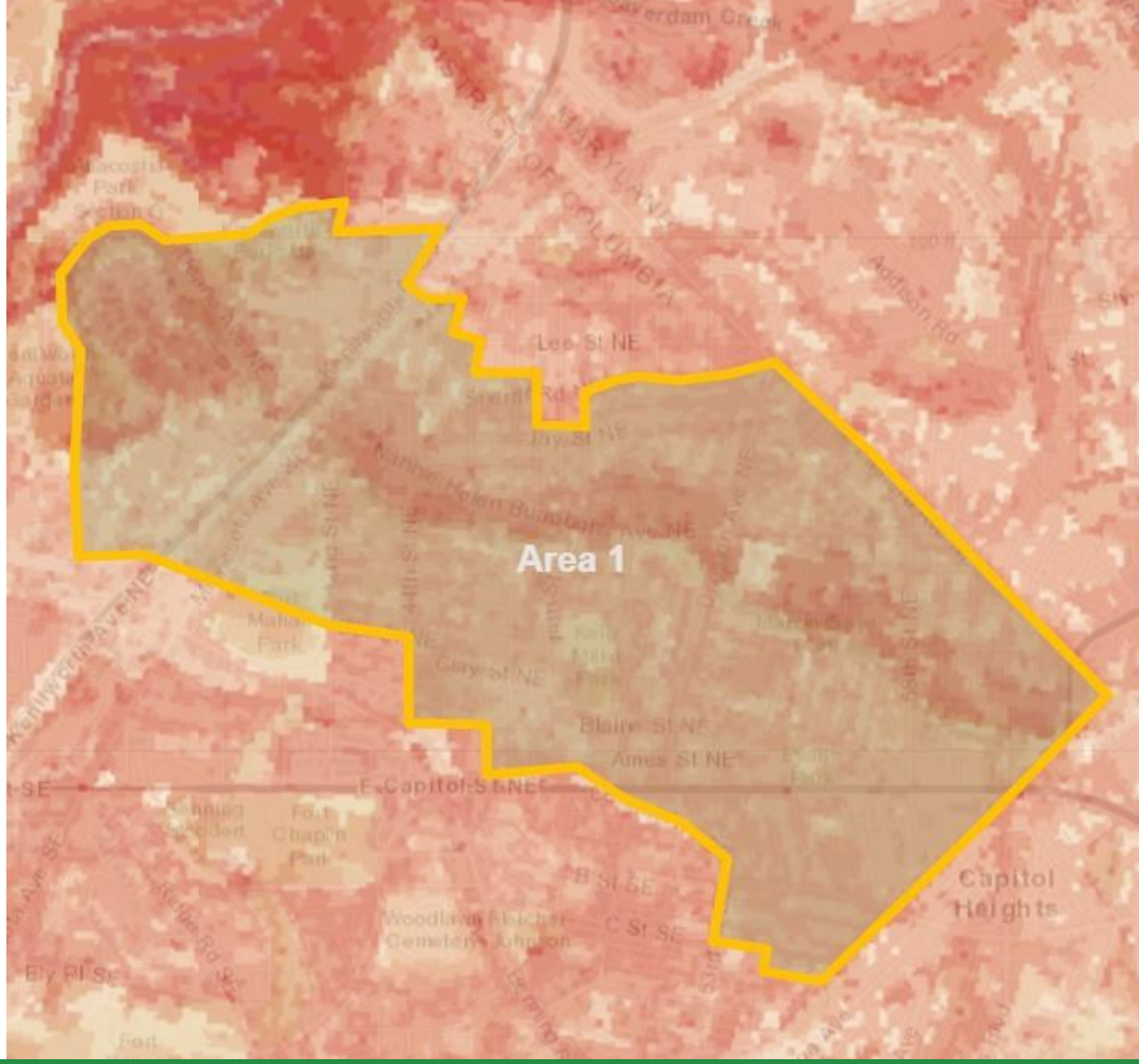
Nash Run

- listed as impaired as of 2016 for turbidity, flow alternations, organic enrichment/oxygen depletion and pathogens
- Tributary of Anacostia
- 5 Outfalls
- 324.7 Acres in project area

Environmental Justice and Climate Threat

- Impervious surface makes up 32% of the Watts Branch sewershed & 49% of Nash Run sewershed



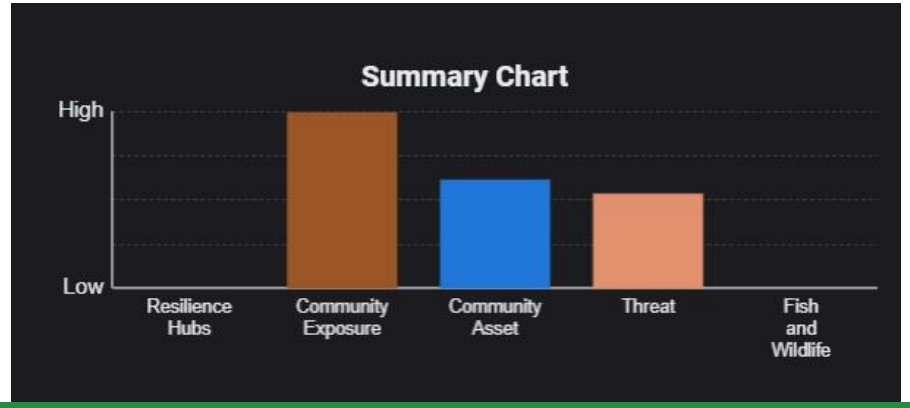


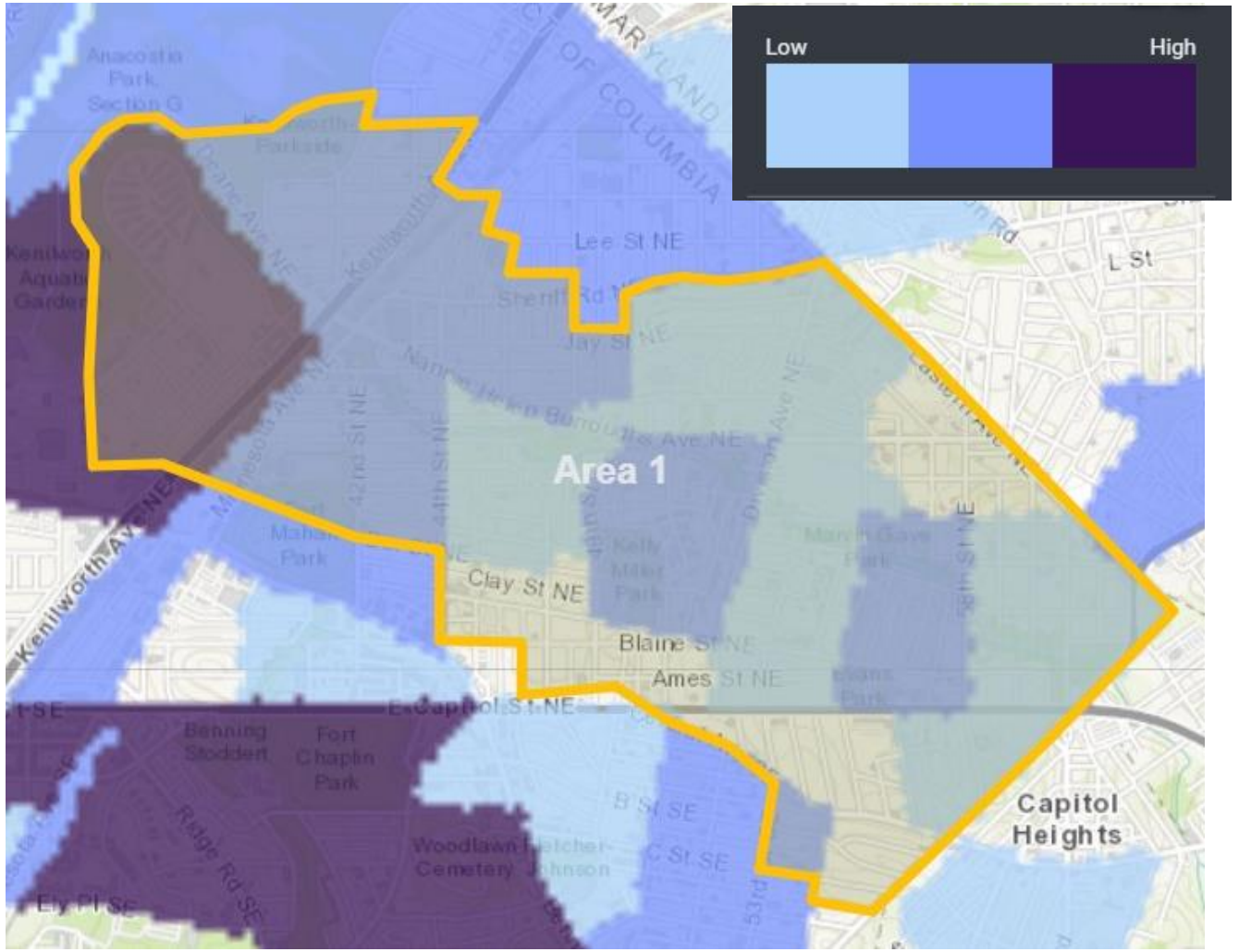
*Map and Graphs from CREST analysis, Environmental Protection Agency

Climate Vulnerability in the Project Area

Mapping impacts of climate change-risk and resilience- in communities using multiple factors such as:

- Resilience hubs present
- Community Exposure
- Community Assets
- Threats
- Presence of fish and wildlife





Project's Environmental Justice Report

Selected Variables	Value	State		EPA Region		USA	
		Avg.	%tile	Avg.	%tile	Avg.	%tile
Pollution and Sources							
Particulate Matter 2.5 ($\mu g/m^3$)	8.56	8.62	18	8.2	63	8.74	48
Ozone (ppb)	42	42.9	11	41.9	48	42.6	47
2017 Diesel Particulate Matter* ($\mu g/m^3$)	0.463	0.534	20	0.267	90-95th	0.295	80-90th
2017 Air Toxics Cancer Risk* (lifetime risk per million)	30	36	37	30	80-90th	29	80-90th
2017 Air Toxics Respiratory HI*	0.42	0.47	41	0.34	95-100th	0.36	80-90th
Traffic Proximity (daily traffic count/distance to road)	2700	3600	52	680	94	710	94
Lead Paint (% Pre-1960 Housing)	0.51	0.58	34	0.35	71	0.28	78
Superfund Proximity (site count/km distance)	0.18	0.24	55	0.15	80	0.13	83
RMP Facility Proximity (facility count/km distance)	1.4	0.65	93	0.63	87	0.75	84
Hazardous Waste Proximity (facility count/km distance)	4.4	17	9	1.9	88	2.2	86
Underground Storage Tanks ($count/km^2$)	8.9	12	46	2.7	92	3.9	87
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0002	0.0014	19	33	41	12	36
Socioeconomic Indicators							
Demographic Index	72%	46%	79	30%	95	36%	91
People of Color	98%	63%	87	33%	97	40%	96
Low Income	46%	28%	74	27%	83	31%	76
Unemployment Rate	19%	7%	88	5%	96	5%	96
Linguistically Isolated	1%	3%	51	3%	60	5%	49
Less Than High School Education	15%	9%	73	10%	76	12%	69
Under Age 5	7%	7%	58	6%	68	6%	64
Over Age 64	12%	12%	58	16%	34	16%	40

Seeking Solutions

National Fish and Wildlife Foundation (NFWF) Small Watershed Grants Program:
Supports efforts to achieve water quality improvement, restoration, and protection of key **Chesapeake Bay** species and their habitats, and the fostering of an engaged and diverse citizen and stakeholder presence that will build upon and sustain measurable natural resource improvements.

The Small Watershed Grants Program priorities are:

- Managing Agricultural and Urban Runoff
- **Improving Water Quality and Stream Health Through Riparian Restoration and Conservation**
- **Enhancing and Protecting Freshwater Habitat for Eastern Brook Trout**
- Enhancing and Protesting Tidal and Estuarine Habitat
- **Enhancing Nature-Based Resilience for Human Communities**
- **Building Capacity for Landscape-Scale Watershed and Habitat Planning, Design, and Implementation**

Project Period:

This project starts at the date of the Director's approval and **ends September 30, 2024**. This period can be extended depending upon the performance of the grantee and/or the availability of funds.

Available Funding:

$180,000. This amount can be adjusted depending upon the performance of the grantee and/or the availability of funds.

Funds are reimbursable funds

Project Outcomes:

1. Reduced nitrogen, phosphorus, and sediment pollution to the Chesapeake Bay and its tributary rivers and streams
2. Individuals in the watershed are motivated to adopt behaviors that benefit water quality, aquatic species, and aquatic habitats

Project Outputs:

1. Number of people educated
    - Project Goal is at least 100 people in the target Communities
2. Number of homes correctly connected to sanitary sewer lines
    - Project Goal is to engage with up to five residential property owners, an interchange that results in sewer corrections
3. Participation in monthly, or as needed, in-person and video meetings and calls
    - This is with DOEE
4. Initial outreach and engagement plan
5. Final outreach and engagement guidance document

Deliverables:

1. Community meeting minutes and sign-in sheets
2. Quarterly status reports
3. Project's education and outreach materials (electronic copies of data and files)
4. Addresses of homes that participated in program, details, and photos of construction
5. Initial outreach and engagement plan
6. Final outreach and engagement guidance document

Scoring Criteria

	Scoring Criteria	Points
1	The applicant presents a convincing plan and timeline.	10
2	The applicant presents a plan that knowledgeably and meaningfully accounts for present and/or historical social or environmental injustices faced by the community in which the proposed project is located.	20
3	The applicant demonstrates experience conducting meaningful community outreach engagement.	20
4	The applicant demonstrates experience in developing outreach and engagement plans.	10
5	The applicant demonstrates a thorough understanding of the MS4 and the Anacostia River Watershed.	20
6	The applicant demonstrates the organizational capacity and experience to select and manage contractors, especially for plumbing projects.	10
7	The applicant presents a detailed numeric budget and a budget narrative that clearly justify the funds requested.	10
8	Additional Points: Applicant is local as described in Appendix 5.	5

Questions?

Contact for this project:

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23dcsanitarycorrection@dc.gov

Dennis Chestnut in Marvin Gaye Park in Watts Branch, Ward 7, Washington D.C. Chestnut has devoted much of his life to promotion of Ward 7's history and upkeep.
(Photo by Ethan Weston/Chesapeake Bay Program)