



Clean Rivers Project - Potomac River Tunnel Tunnel Forum, CSO 022 Construction Site

January 22, 2025



Moussa Wone, Vice President, DC Clean Rivers Project



- Welcome and Introductions
- Virtual Meeting Participation Tips
- DC Clean Rivers Project
- Potomac River Tunnel
- CSO 022 Construction Site
- Community Engagement
- Questions



Virtual Meeting Participation Tips

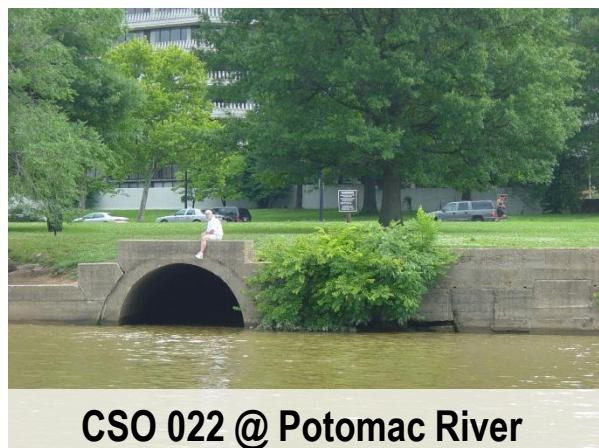
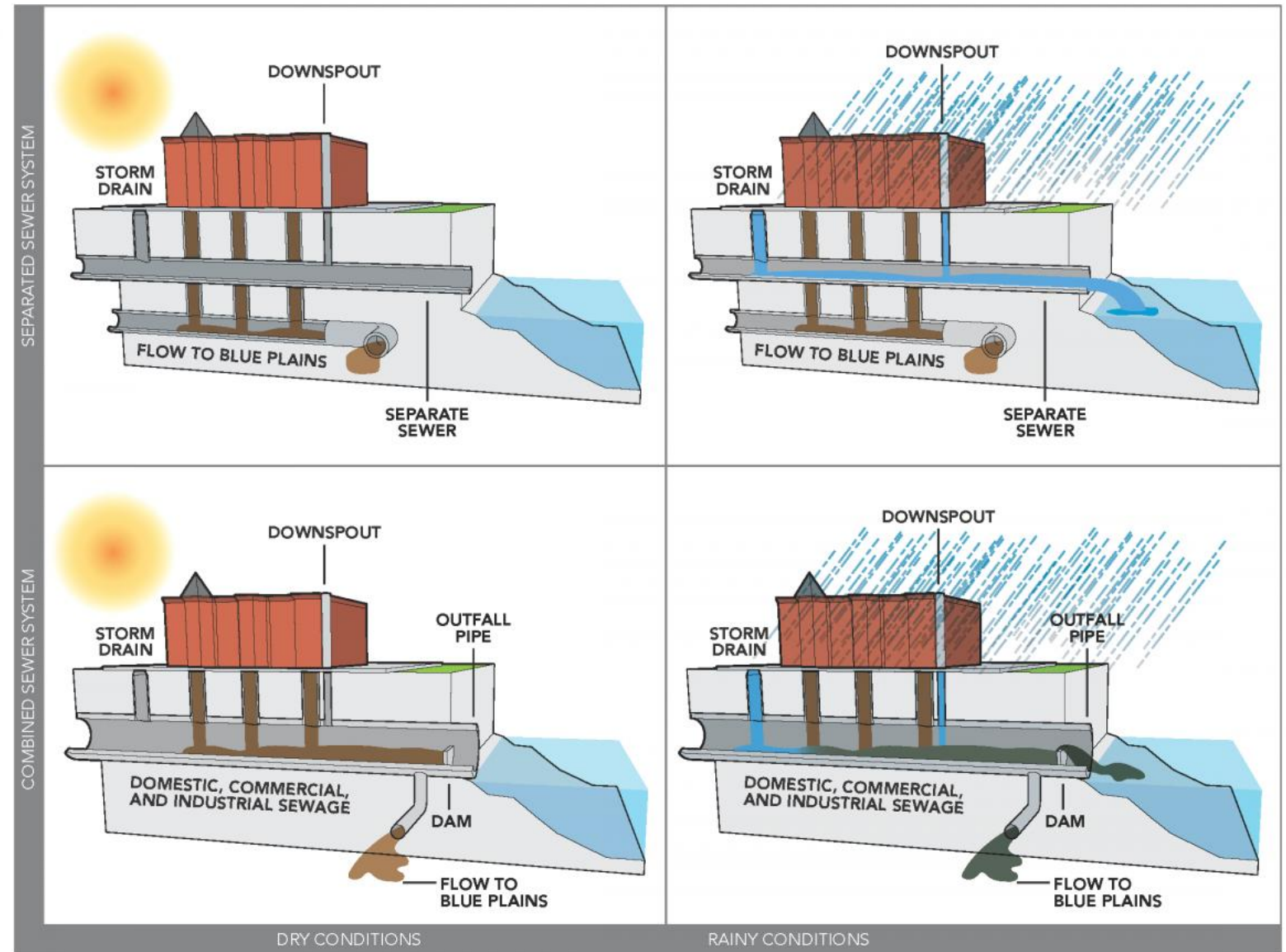
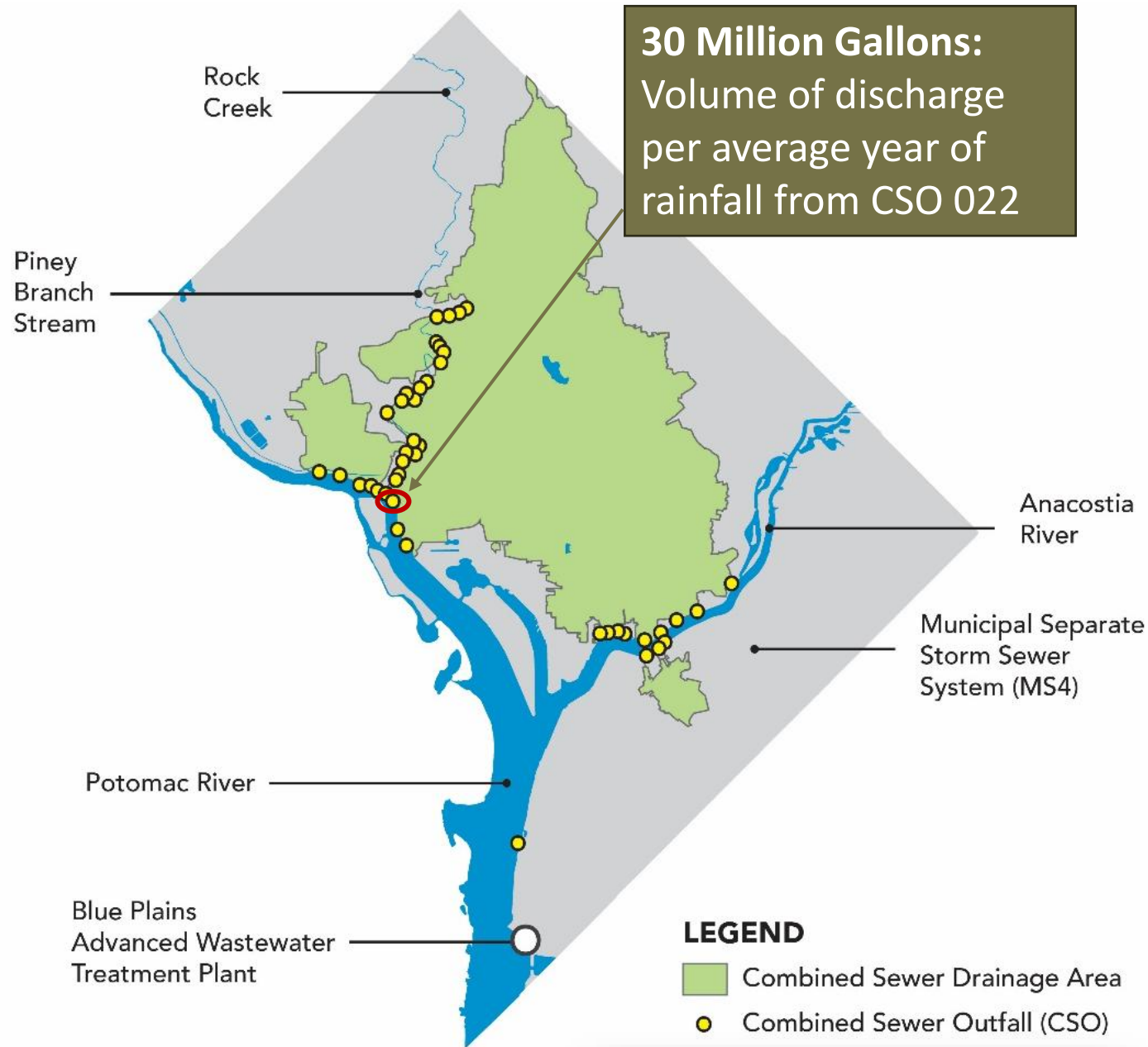
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DC Clean Rivers Project

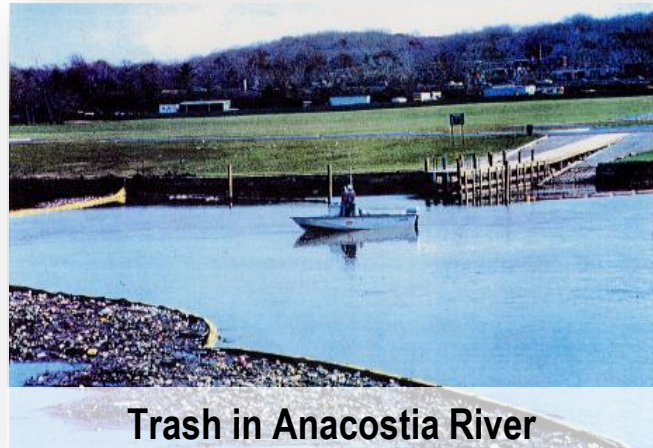
Combined Sewer Overflow (CSO)
Indicator Light.
Red Light Indicates Active CSO.
Amber Light Indicates CSO
Within Last 24 Hours.



Combined Sewer System in the District



CSO 022 @ Potomac River



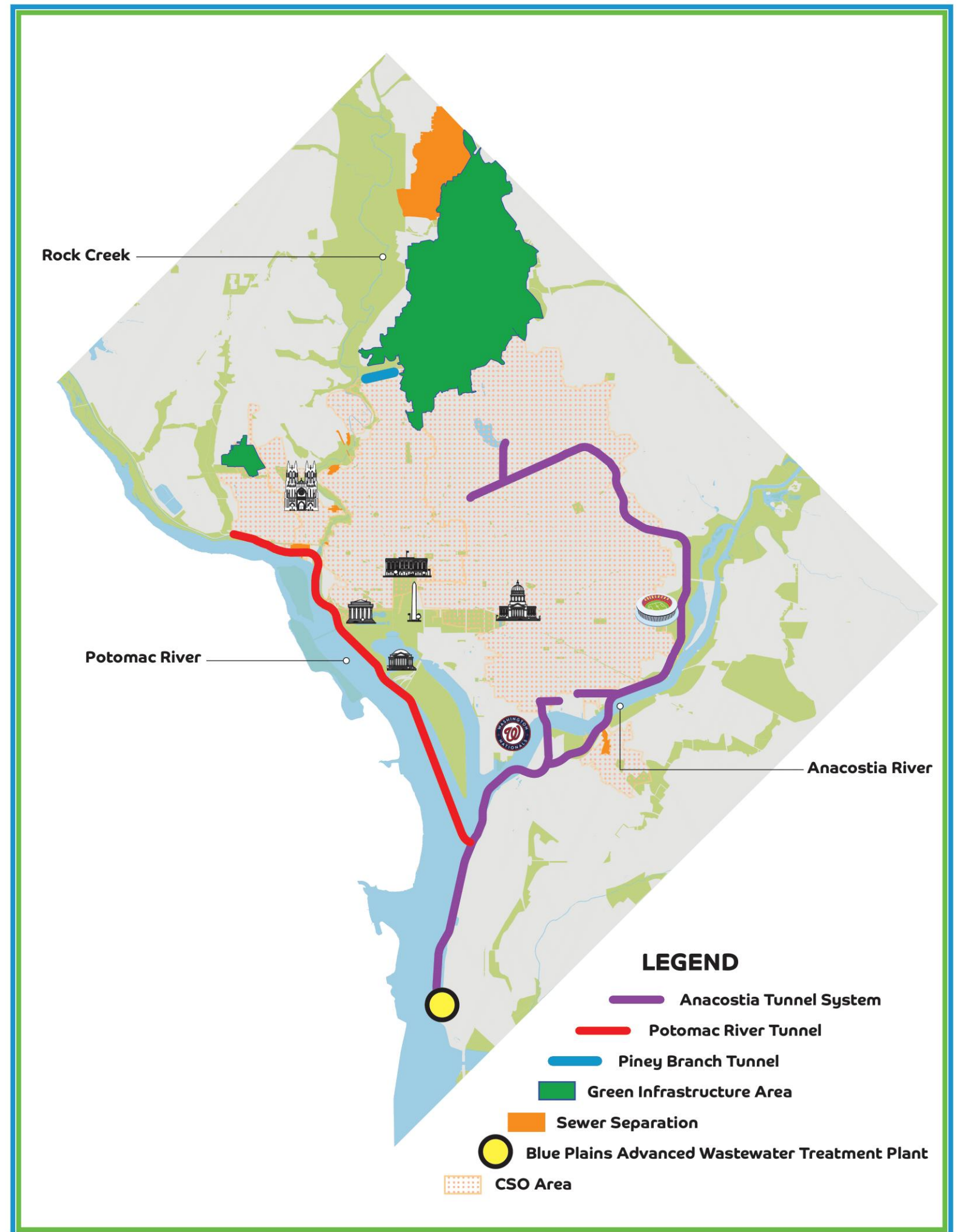
Trash in Anacostia River

- 1/3 of District is served by combined sewers (12,478 acres)
- Combined Sewer Overflow (CSO) outfalls
 - 15 to Anacostia River
 - 10 to Potomac River
 - 23 to Rock Creek

DC CLEAN RIVERS PROJECT AND NITROGEN REMOVAL PROGRAMS

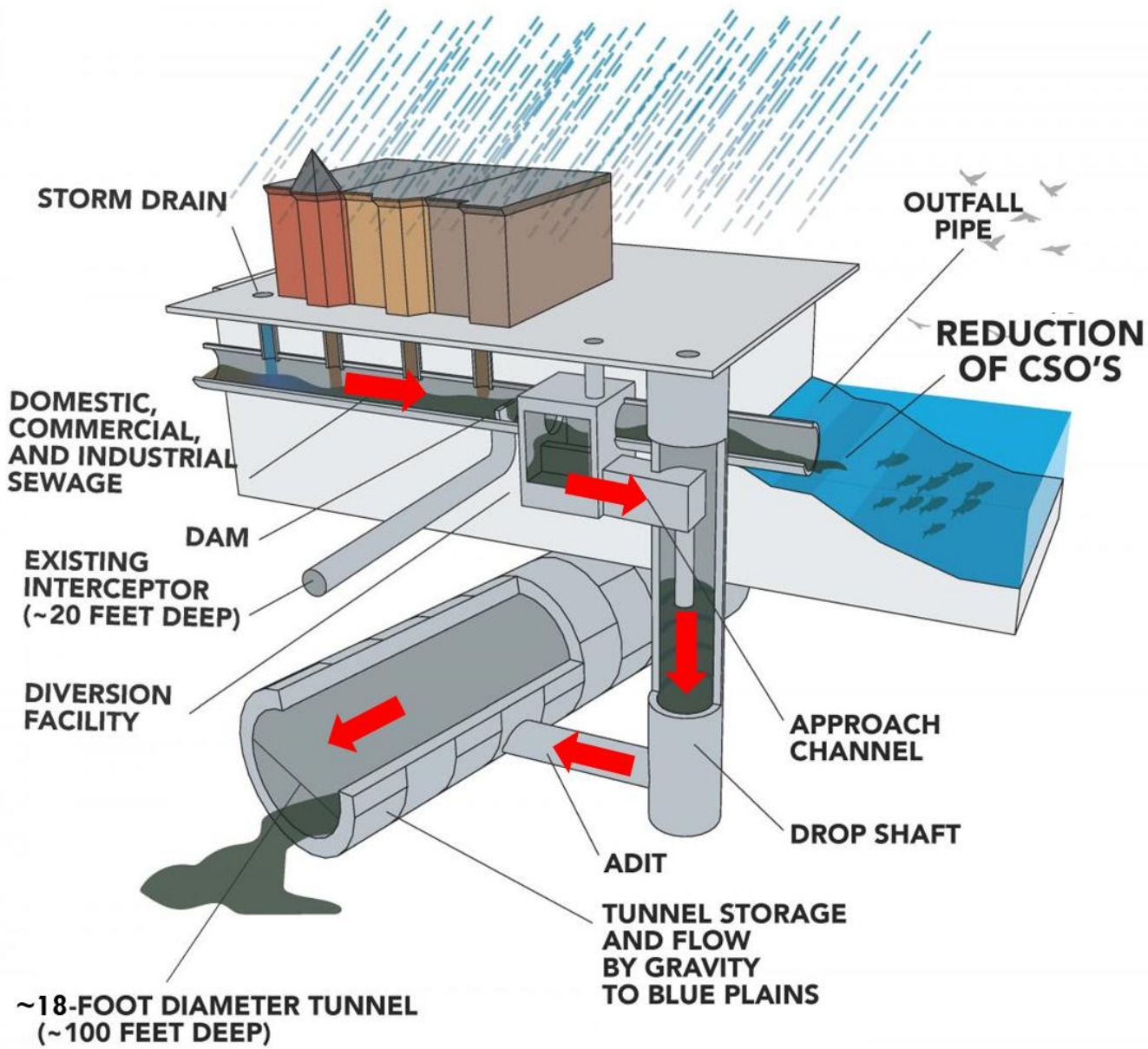
- DC Clean Rivers Project: \$3.29 Billion
- Nitrogen Removal: \$950 Million
- Total > \$4.2 Billion
- 25 yr implementation (2005 – 2030)
- 96% reduction in CSOs
- Approx. 1 million lbs/yr nitrogen reduction

The project is required by a Consent Decree signed by the Environmental Protection Agency, Department of Justice, District of Columbia, & DC Water



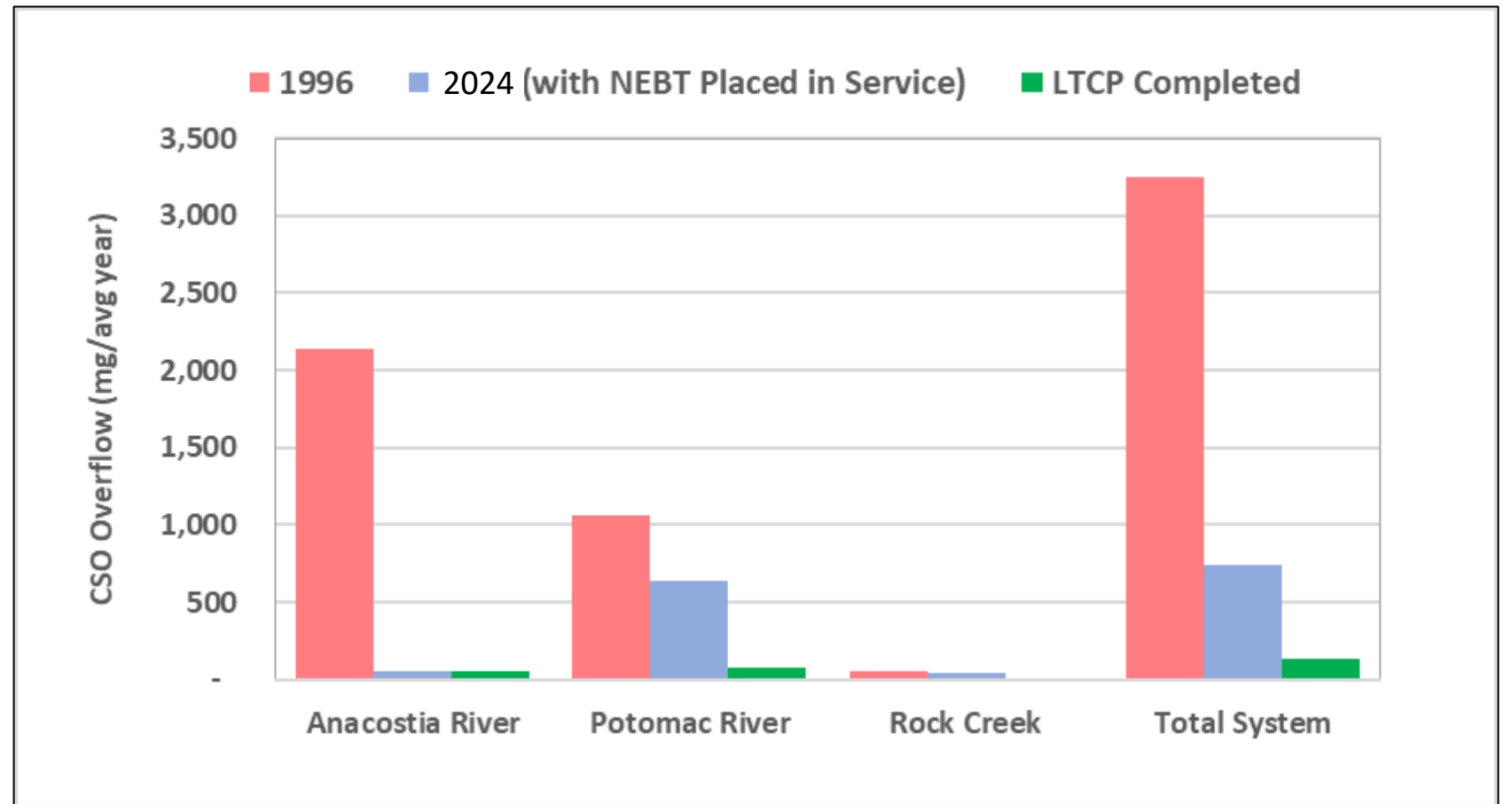


Clean Rivers Project Performance



Parameter	Phase	Anacostia River	Potomac River	Rock Creek	Total
CSO Volume (mg/avg year)	DC Water created (1996)	2,142	1,063	49	3,254
	Clean Rivers complete	54	79	5	138
	% reduction	98%	93%	90%	96%
CSO Frequency (#/avg yr)	DC Water created (1996)	82	74	30	82
	Clean Rivers complete	2	4	1 / 4 ¹	4

¹One at Piney Branch, four at the other Rock Creek CSOs

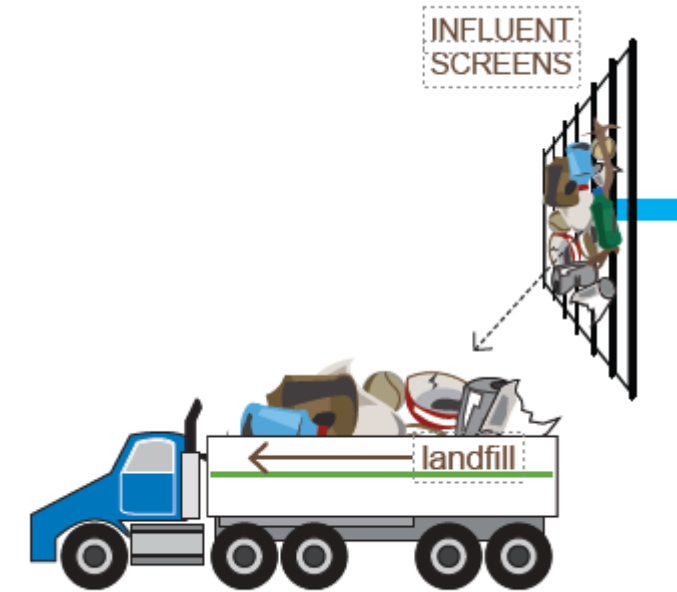
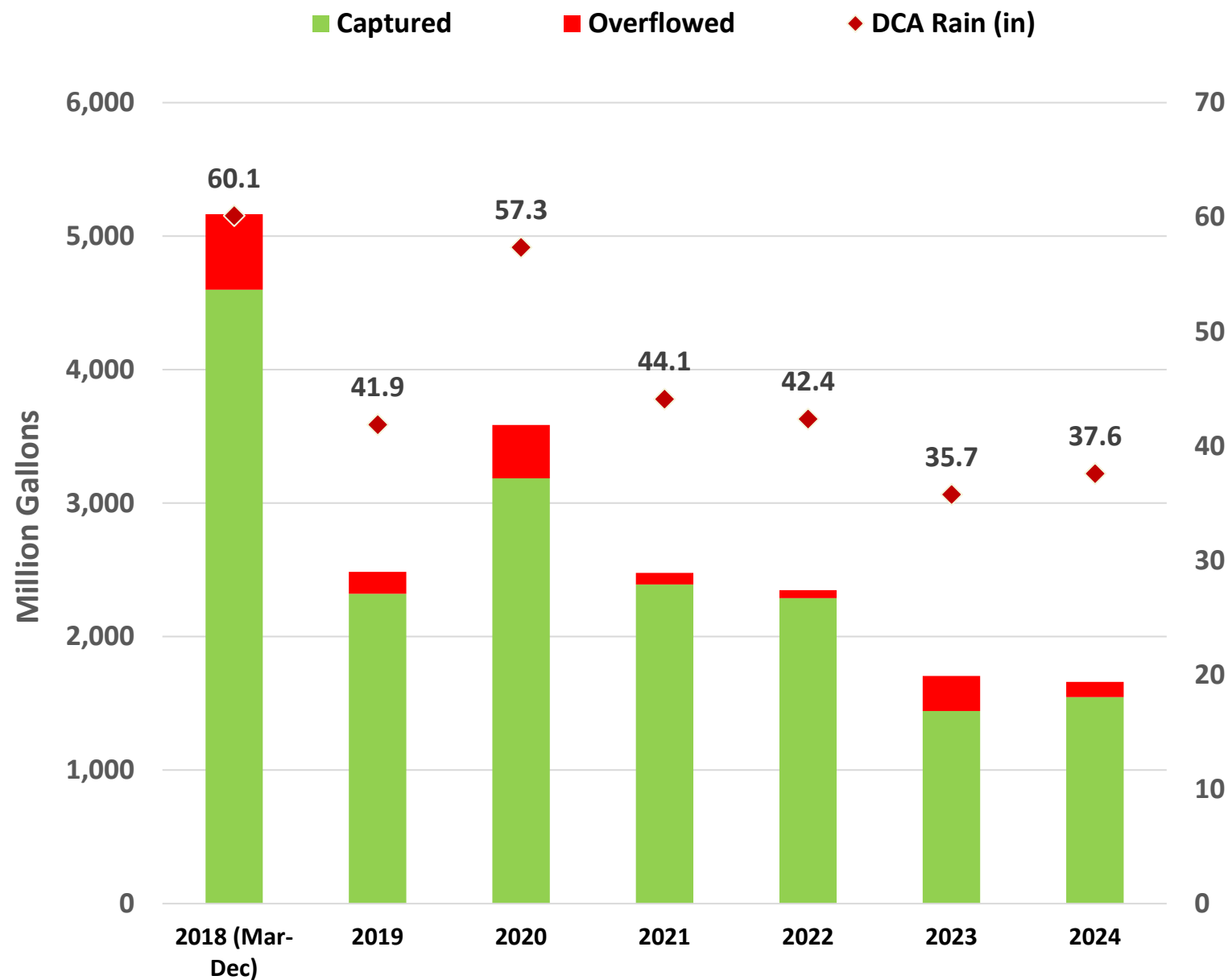




Anacostia River Tunnel System Performance to Date

- Over **17.8 billion gallons** captured March 2018 – December 2024
- Over **11,287 tons of trash**, debris, and other solids captured
- Exceeding predicted capture rate (**91% > 80%**)

Anacostia Tunnel System Performance



Anacostia River Tunnel

Trash, Debris and Solids Removed at Blue Plains from Anacostia Tunnel System



Coordination with Watergate

- 1998-2002: Developed tunnel plan to control CSOs
- 2005: Consent Decree signed
- 2014-2018: Environmental assessment for Potomac Tunnel including public meetings and comments
- 2021: Progress update to Watergate
- 2024:
 - Pre-construction survey coordination
 - July meeting with Watergate West residents
- 2024-2030: construct Potomac Tunnel



Potomac River Tunnel





Potomac River Tunnel

Project

- Approx 5.5 miles of 18 feet finished tunnel
 - 2.4 miles in rock (north)
 - 3.1 miles in soil (south)
- 7 shafts
- Connection to existing Tunnel System

Schedule

- NTP: Nov 2023
- Construction Start: 2024
- Consent Decree Deadline: 2030

LEGEND

- Potomac River Tunnel
- Anacostia River Tunnel System
- Construction Site With Diversion Facility
- West Potomac Park Site
- X Connection to Blue Plains Tunnel and JBAB Overflow Site





SITE LOCATIONS

- CSO 029**
Georgetown University: West of Canal Road Entrance
- CSO 028**
Georgetown: Capital Crescent Trail west of Aqueduct
- CSO 027**
Georgetown: Georgetown Waterfront Park
- CSO 024**
Georgetown: K St NW and 30th St NW
- CSO 022**
Rock Creek Trail west of the Watergate Complex
- CSO 021**
Victura Park at Kennedy Center
- CSO 020**
West side of the Park at Lincoln Memorial
- West Potomac Park**
West Potomac Park Field #7
- Tunnel Connection to JBAB**
Riverfront location at Joint Base Anacostia-Bolling



Anticipated Schedule (simplified)

Legend

-  Planned work
-  Work may be performed pending construction progress/schedule adjustments

Activity	2024				2025				2026				2027				2028				2029				2030						
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
West Potomac Park	Planned work				Planned work				Planned work				Planned work				Planned work				Planned work				Planned work						
CSO 022 (Watergate)					Planned work				Planned work				Planned work				Planned work				Work may be performed pending construction progress/schedule adjustments										
CSO 028 (C&O Canal at Key Bridge)					Planned work				Planned work				Planned work				Planned work				Work may be performed pending construction progress/schedule adjustments										
CSO 027 (Potomac and K St NW)						Planned work			Planned work				Planned work				Work may be performed pending construction progress/schedule adjustments				Work may be performed pending construction progress/schedule adjustments										
CSO 024 (30 th and K St NW)						Planned work			Planned work				Planned work				Work may be performed pending construction progress/schedule adjustments				Work may be performed pending construction progress/schedule adjustments										
CSO 020							Planned work		Planned work				Planned work				Planned work				Work may be performed pending construction progress/schedule adjustments										
CSO 029 (Georgetown University)								Planned work			Planned work				Planned work				Planned work				Work may be performed pending construction progress/schedule adjustments								
CSO 021 (Kennedy Center)																			Planned work				Work may be performed pending construction progress/schedule adjustments								
Joint Base Anacostia-Bolling									Planned work											Planned work				Planned work							

← Planned Tunnel Mining →

Schedules subject to change

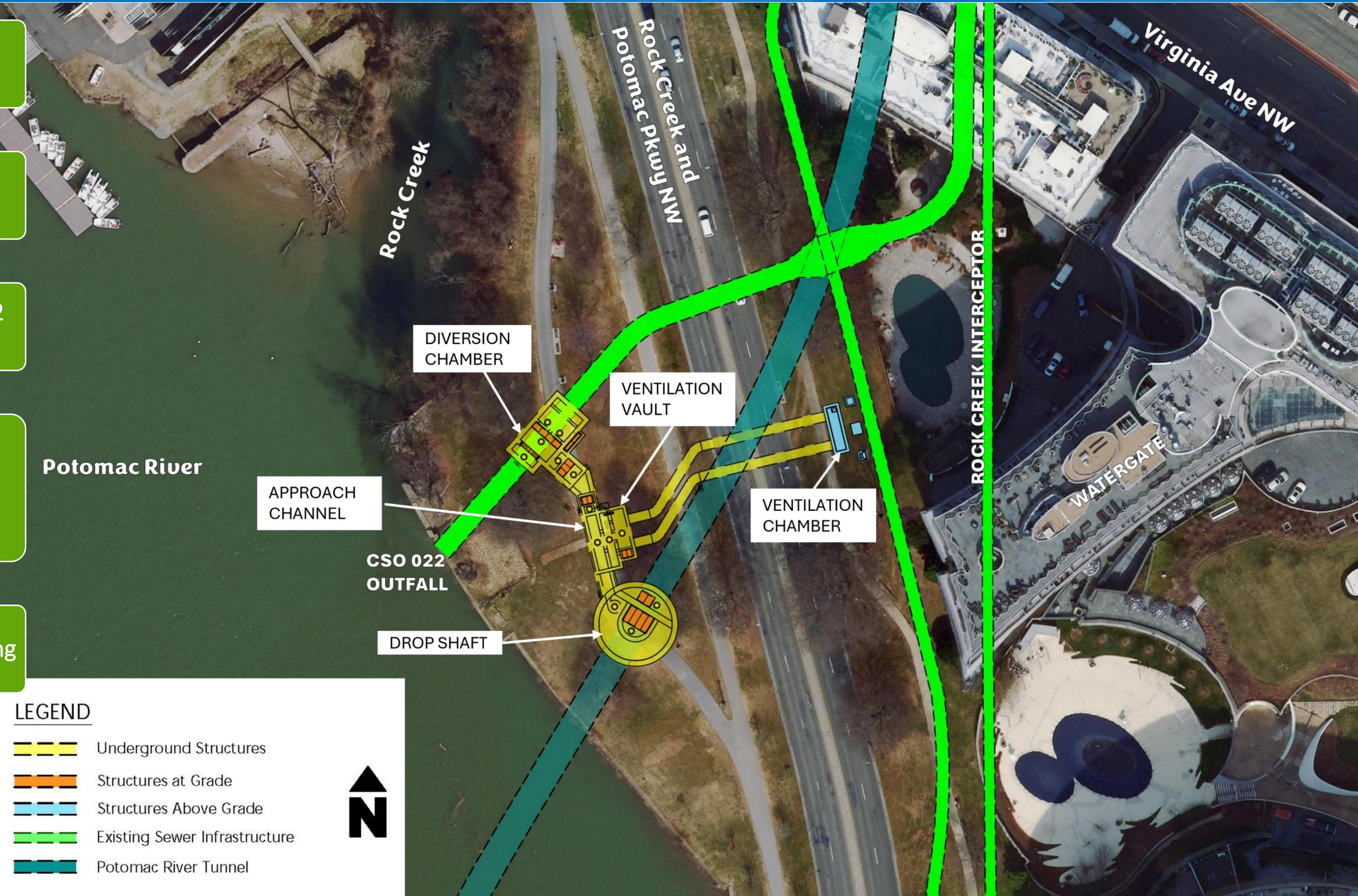
Combined Sewer Overflow 022 Construction Site





Combined Sewer Overflow (CSO) 022 Construction Site

- Site Set-Up
- Construction of Drop Shaft (preparing for tunnel)
- Tunnel Passes Through CSO 022 Site
- Construction of Supporting Infrastructure (diversion chamber, approach channel, ventilation facility)
- Site Restoration and Landscaping



Existing



Project Completed



Project Completed

Existing





CSO 022 – Work Phases

A

Main Site
Set Up

Drop Shaft
Location

B

Electrical
Duct Bank

C

Ventilation
Chamber

D

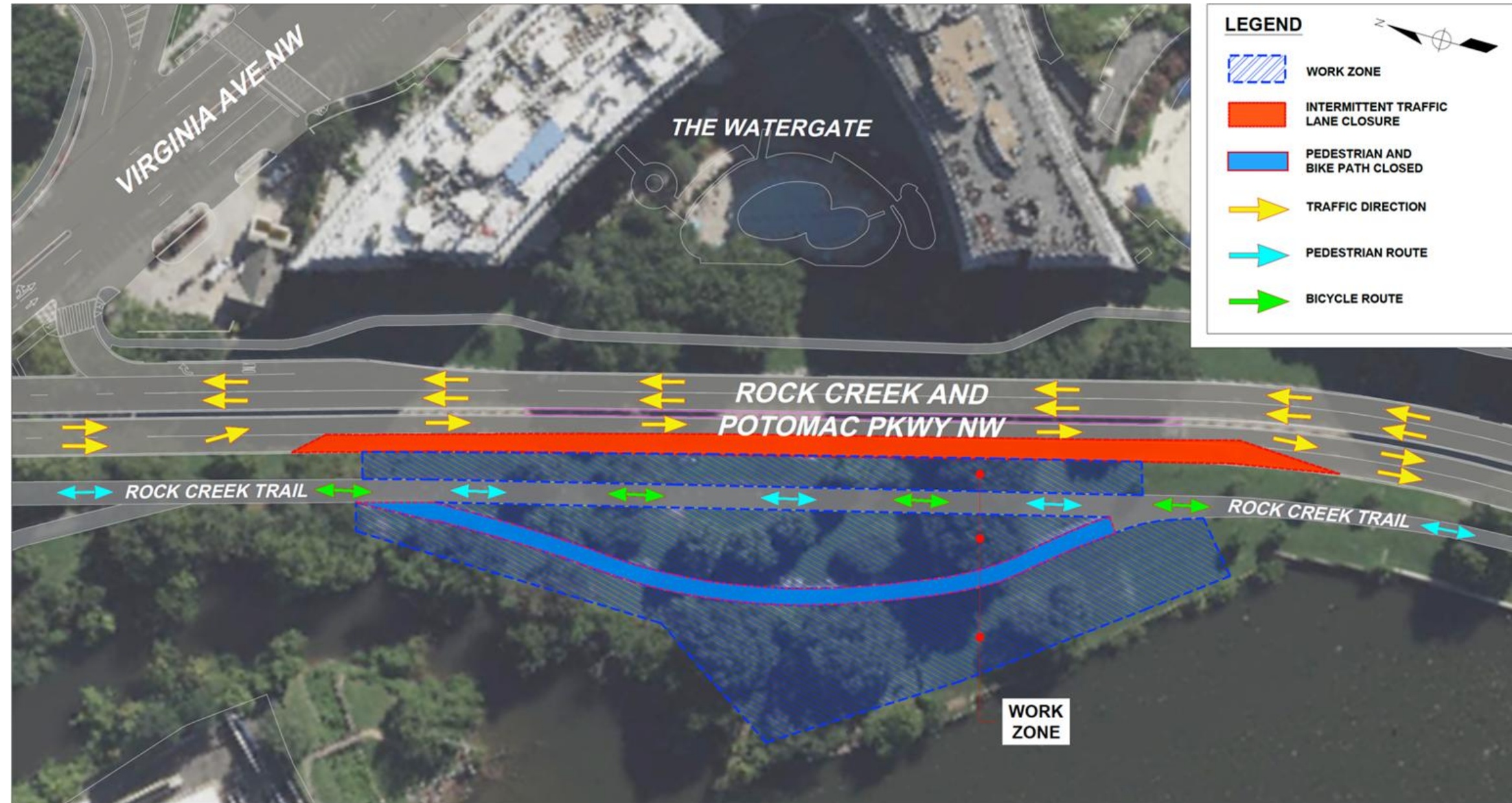
Ventilation
Pipes





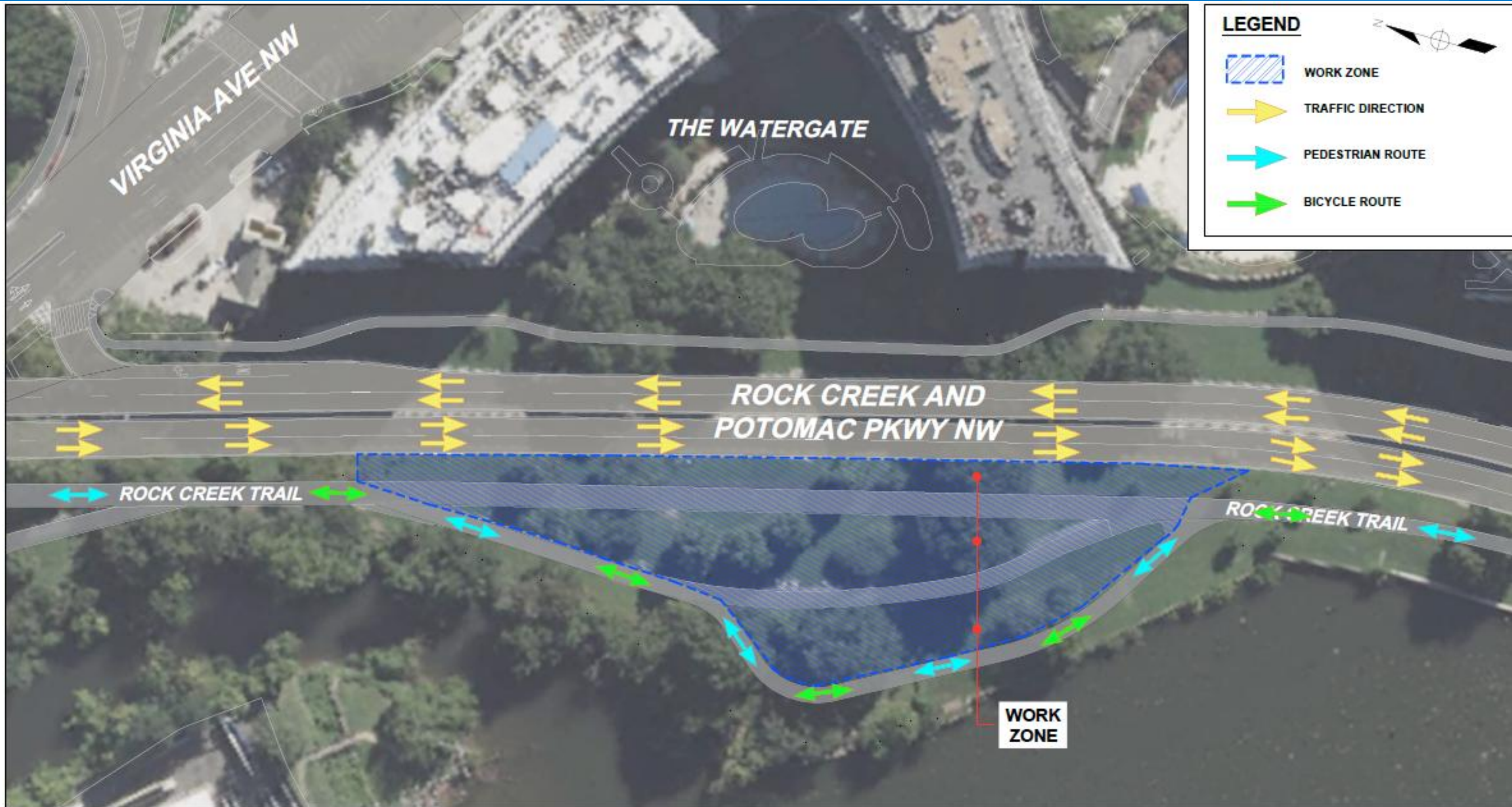
CSO 022 – Current Site Set Up

- Lane closure: during non-peak hours (9:30 AM – 3:30 PM)
- Trail closest to the river will remain closed for about four months while constructing a new trail.
- Pedestrians and bicyclists detoured to the path closest to the Rock Creek and Potomac Parkway.



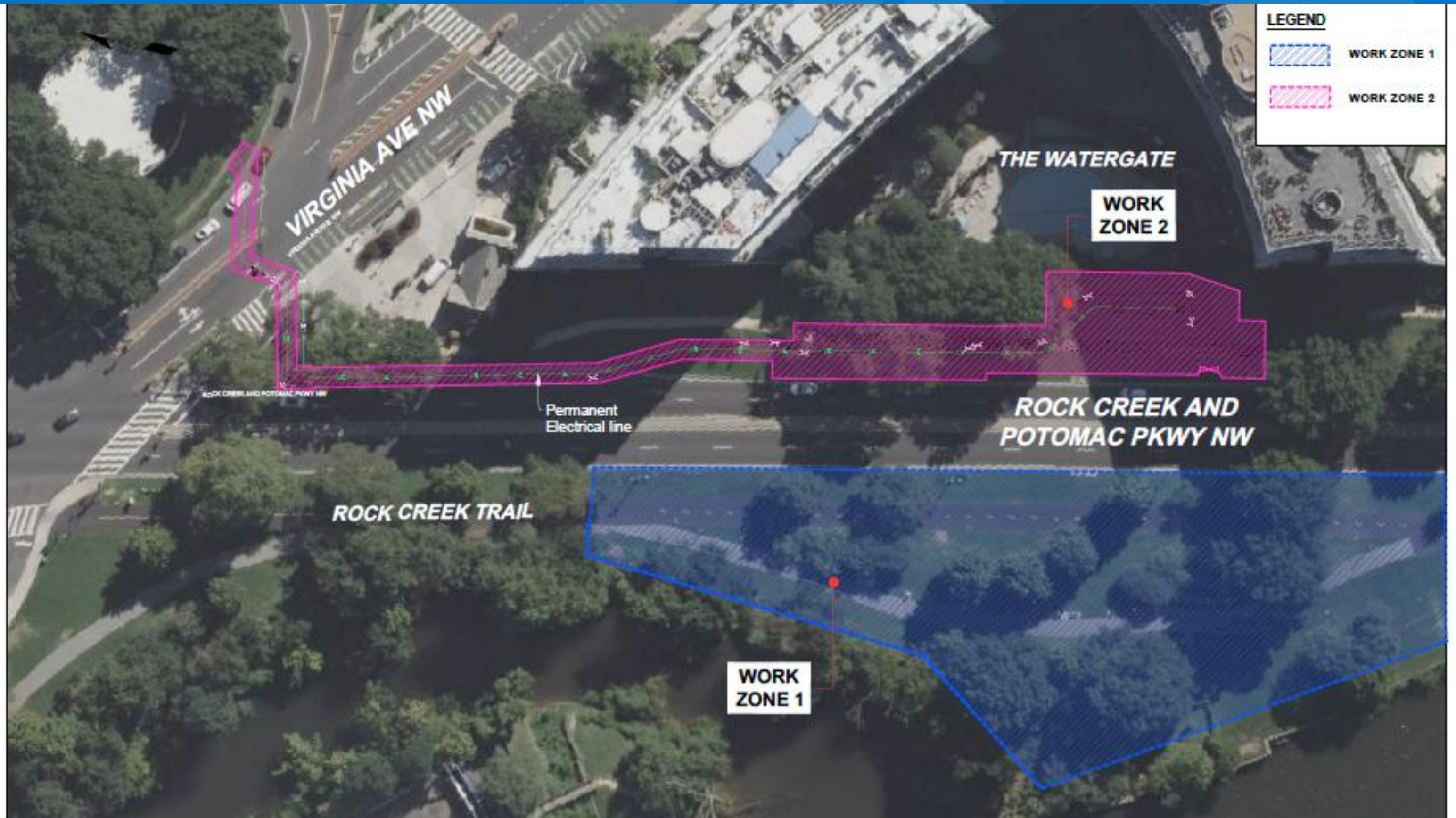


CSO 022 – New Pedestrian & Bicycle Path









CSO 022 – Electrical Duct Bank Work



Community Engagement








Community Mitigations

Impacts	Mitigation
 Adjacent Properties	<ul style="list-style-type: none">■ Conduct preconstruction surveys of the project area before mobilization■ Provide advanced notifications to affected businesses and residents to facilitate adequate preparation for anticipated impacts■ Offer clear communication and pertinent information regarding construction activities to affected businesses.
 Special Events	<ul style="list-style-type: none">■ Coordinate work with city event organizers to ensure safety.
 Traffic	<ul style="list-style-type: none">■ Ensure that crews are setting up the traffic control as approved by DDOT/NPS■ Coordinate with DDOT/NPS on traffic advisory and detour notification■ Trucks will follow dedicated DDOT approved haul routes■ Provide signage and barriers to safely direct pedestrians around work zones■ Provide safe access to businesses and residences■ Follow DDOT/NPS approved working and hauling hours■ Issue traffic advisories
 Work Hours	<ul style="list-style-type: none">■ Weekdays from 7:00 am to 7:00 pm■ Weekend/Night Work may occur during certain phases



Community Mitigations

Impacts	Mitigation
 Sidewalk/ Road Closure	<ul style="list-style-type: none">▪ Segregate trails from construction to provide safe path▪ Proactively notify the community of lane and sidewalk closures and duration▪ Provide safe paths for pedestrians and bicyclists▪ Ensure informative signage is posted. Work with NPS to determine any special needs areas
 Noise & Vibration Monitoring	<ul style="list-style-type: none">▪ Noise and vibration levels are monitored to meet DC Municipal & Regulations (DCMR) noise regulations during construction▪ Implement noise and vibration mitigation measures as needed
 Site Maintenance	<ul style="list-style-type: none">▪ Implement site security measures▪ Placement of dust and rodent control measures▪ Install tree protections
 Lighting	<ul style="list-style-type: none">▪ Construction lighting shielded and directed away from residents
 Community Engagement	<ul style="list-style-type: none">▪ 24/7 Project Hotline▪ Project Email and Webpage▪ Project Outreach Team



Contact Information for Public

- If you would like to be included in DC Water's email distribution list for updates on Potomac River Tunnel, please email dcpotomacrivertunnel@dcwater.com
- Future Tunnel Forums to be scheduled and advertised

Contact Information

Project Email: dcpotomacrivertunnel@dcwater.com

Project Website: www.dewater.com/prt

Dedicated Project Hotline: 202-972-1388

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Please fill out our meeting survey (link provided in Q&A).





THANK YOU!