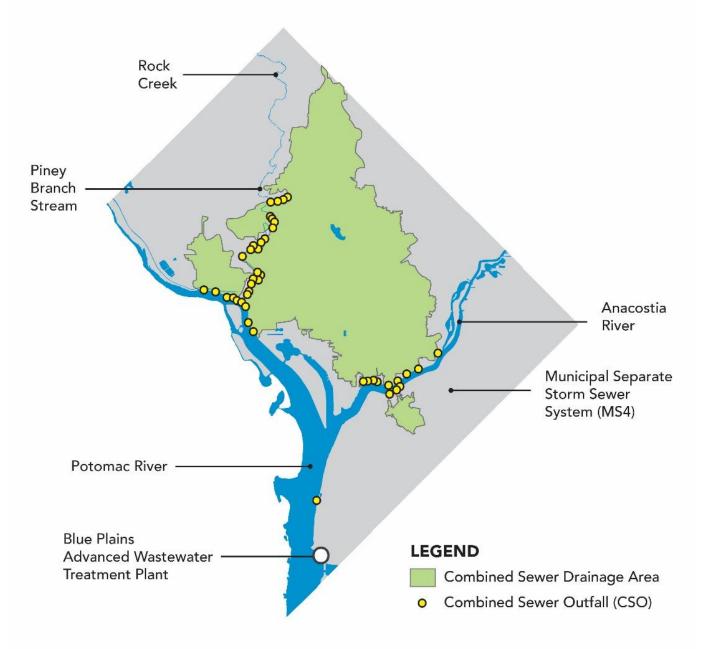


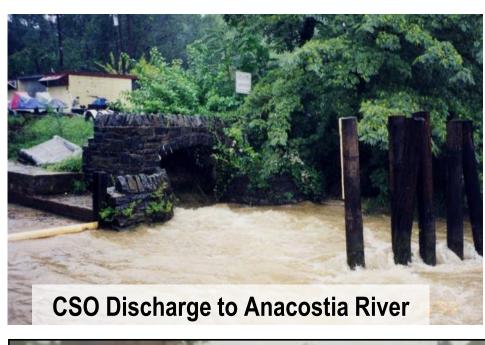


- Clean Rivers Project Overview
- Potomac River Tunnel
- Upcoming Projects
- Questions

CC Combined Sewer System







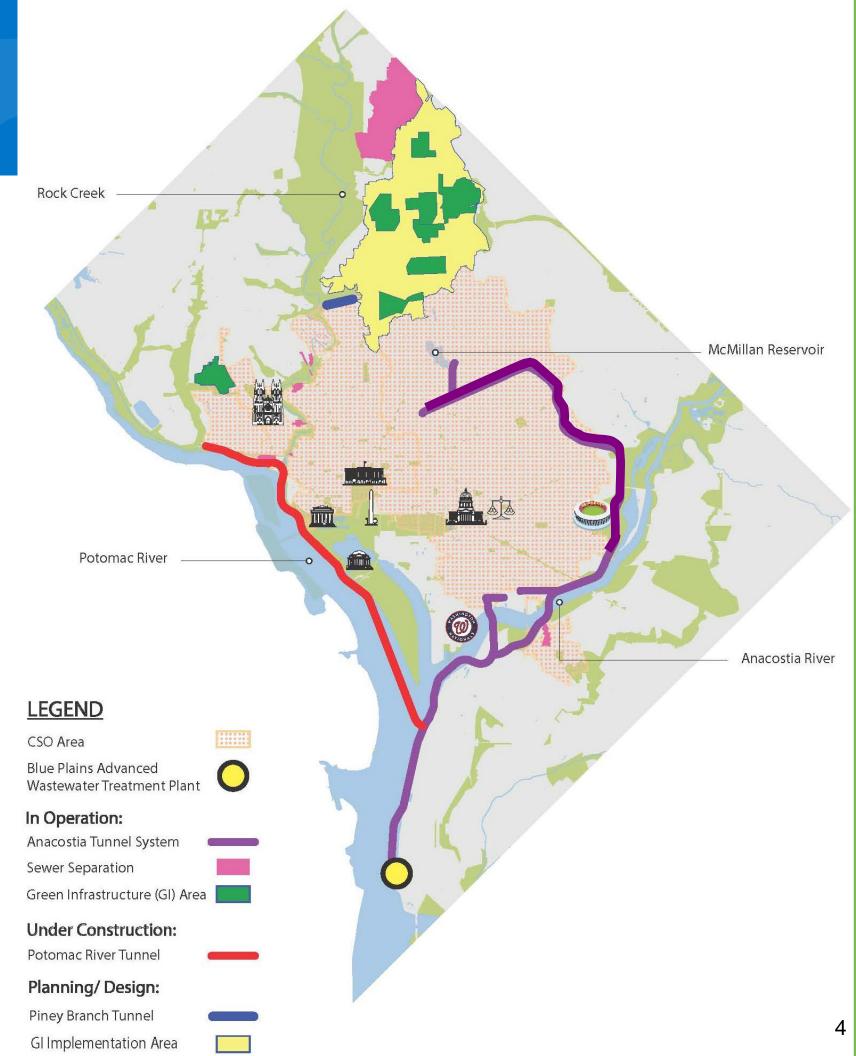


- 1/3 of area within District is served by combined sewers (12,478 acres)
- Combined Sewer Overflow (CSO) outfalls
 - 15 to Anacostia River
 - 10 to Potomac River
 - 23 to Rock Creek

C C Clean Rivers Project Status

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 & flood relief in Northeast Boundary
- Approximately 1 million lbs/yr nitrogen reduction predicted
 - Project required by Consent Decree signed by EPA, DOJ, District of Columbia and DC Water
 - Consent Decree specifies schedule for implementation
 - DC Water subject to stipulated penalties and other sanctions if deadlines not met



Clean Rivers Performance

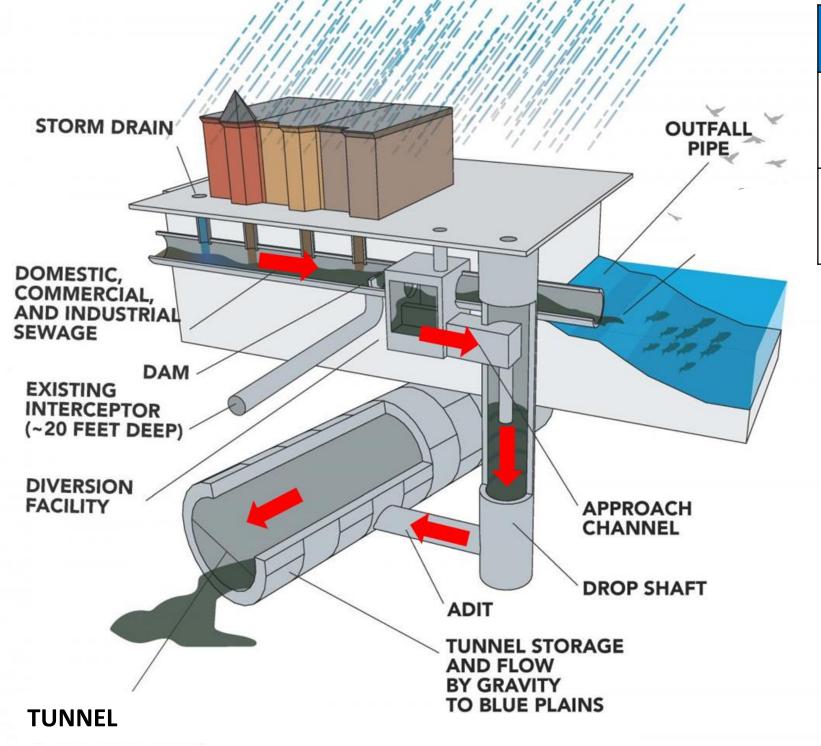


Piney Branch Tunnel upcoming



		<u> </u>			
Parameter	Condition	Anacostia River	Potomac River	Rock Creek	Total
CSO Volume	1996 – DCW created	2,142	1,063	49	3,254
(mg/avg year)	LTCP Complete	54	79	5	138
CSO	1996 – DCW created	82	74	30	82
Frequency (#/avg yr)	LTCP Complete	2	4	1/41	4

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

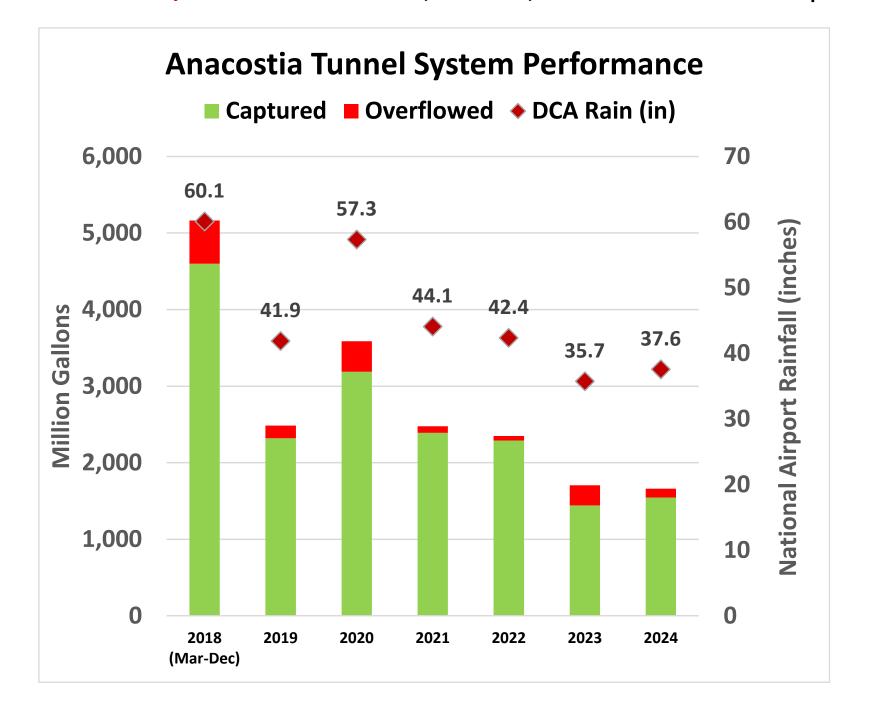


- 3.2 billion gallons/avg year at start of program
- 98% volume reduction on Anacostia
- 96% volume reduction system-wide



Anacostia Tunnel System Performance

- Over 17.7 billion gallons of CSOs captured Mar 2018 Dec 2024
- Over 11,287 tons of trash, debris, and other solids captured

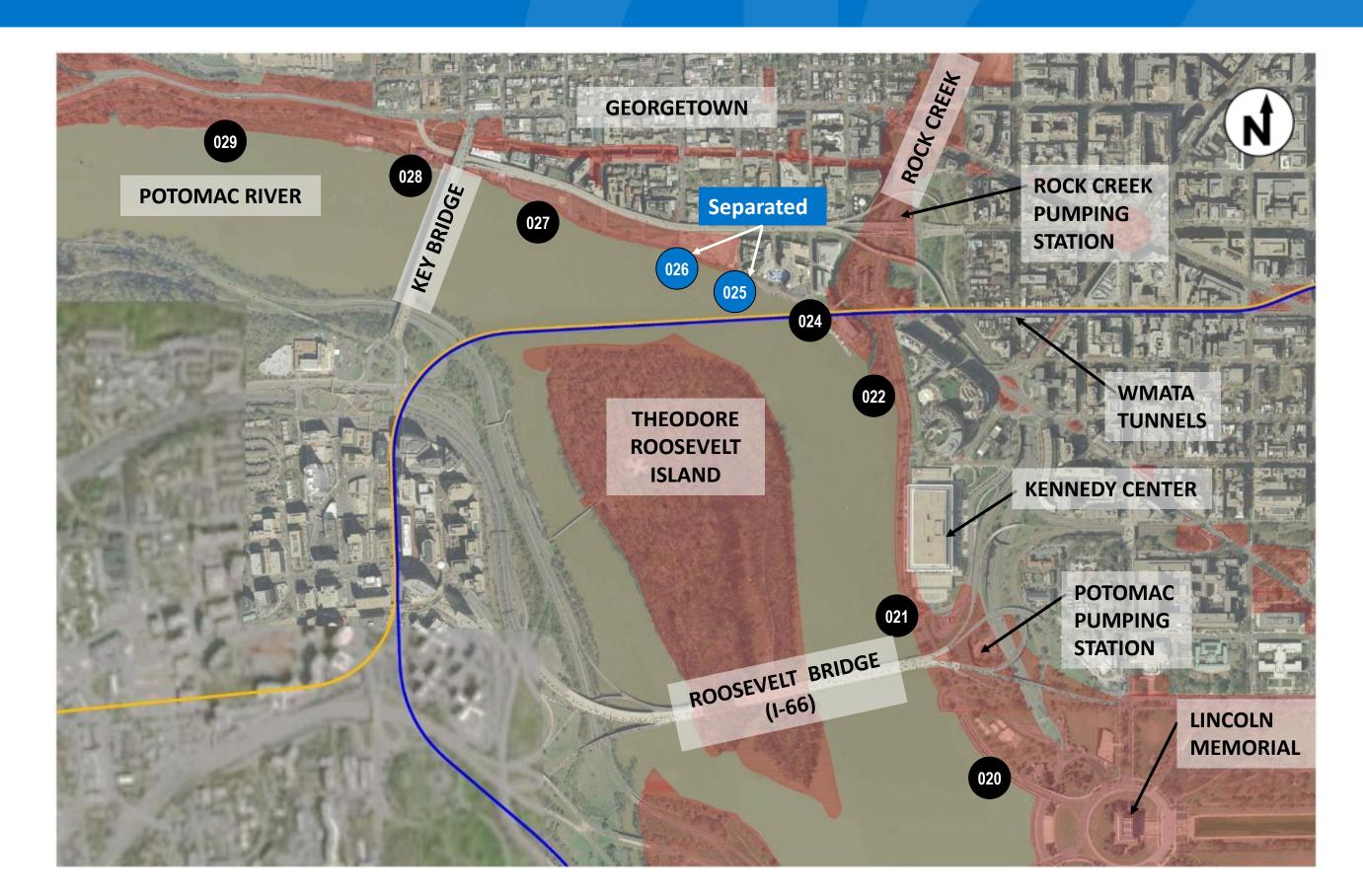




Trash, Debris and Solids Removal from Screening Shaft at Tunnel Dewatering Pumping Station

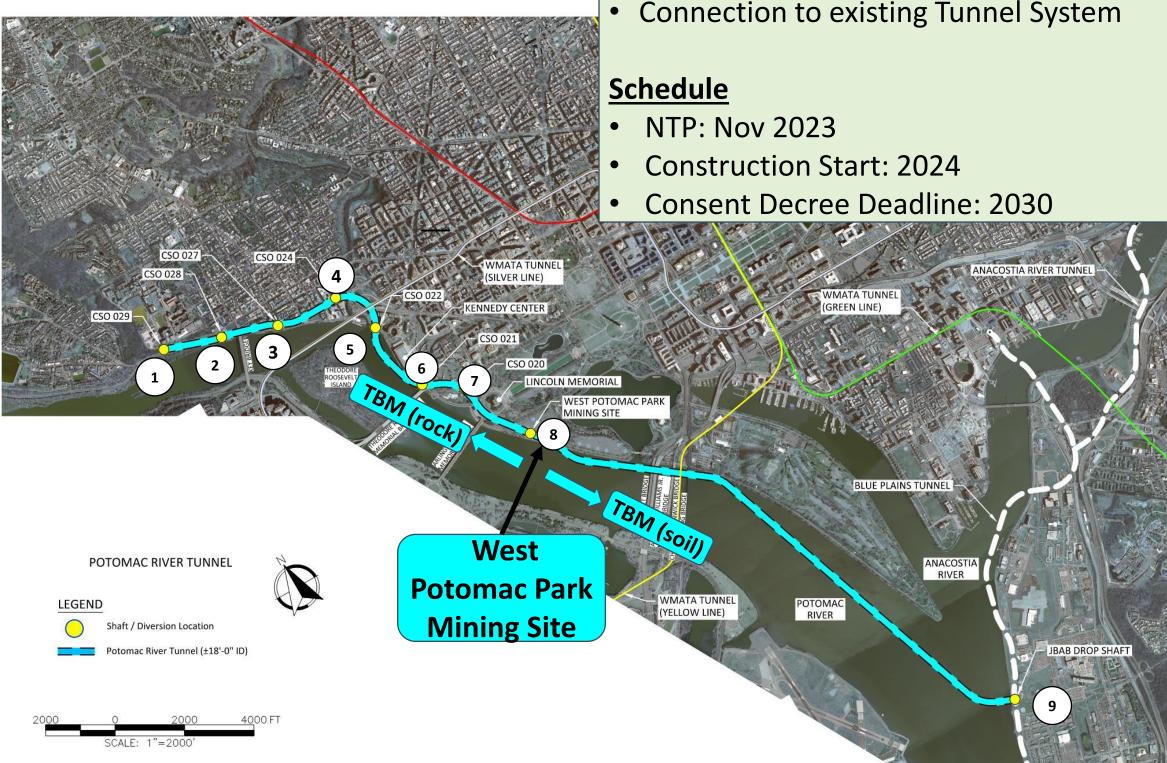


C Potomac CSO Outfall Locations



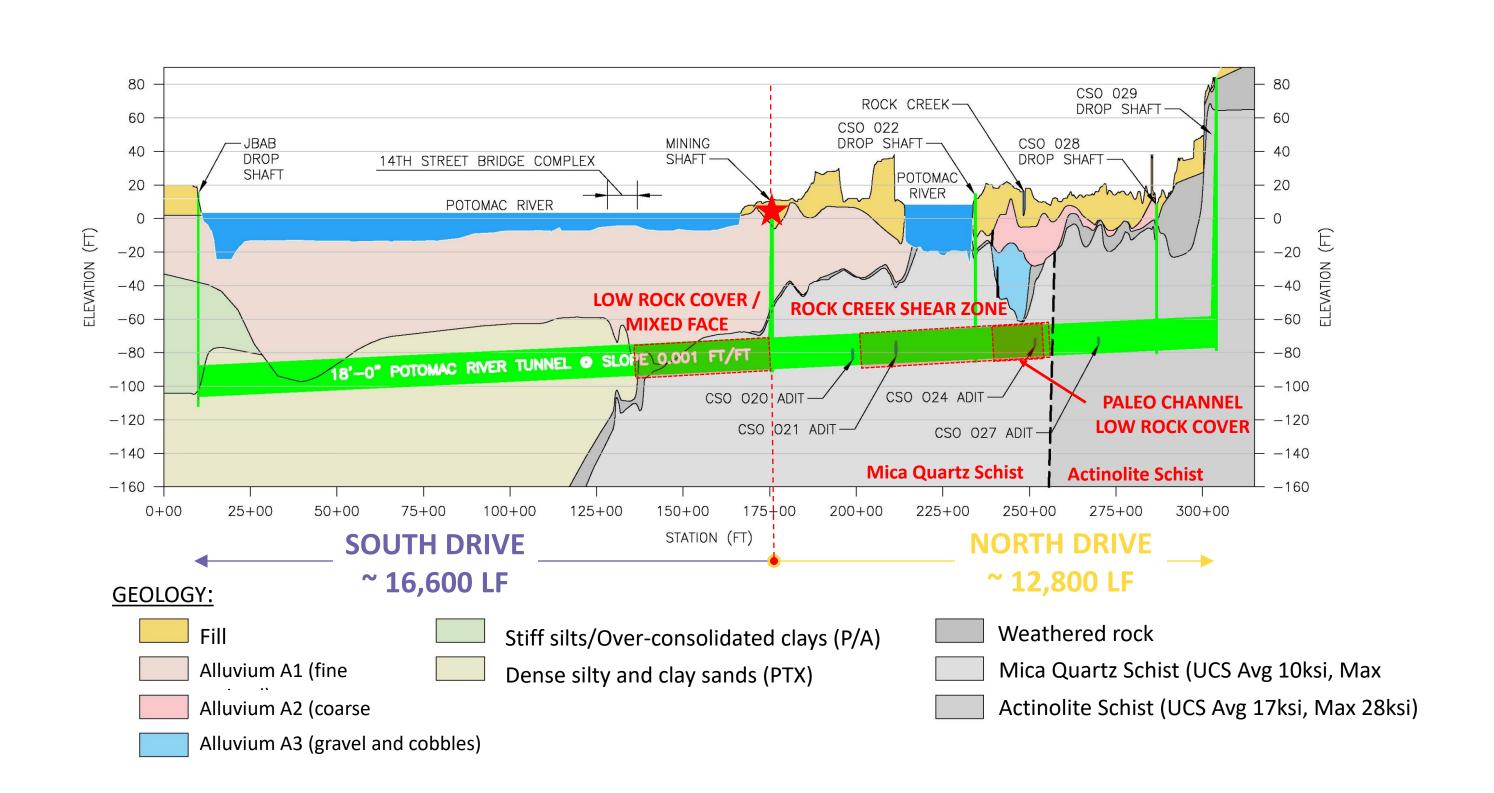
Potomac River Tunnel

Components				
1	CSO 029			
2	CSO 028			
3	CSO 027			
4	CSO 024			
5	CSO 022			
6	CSO 021			
7	CSO 020			
8	West Potomac Park			
9	Joint Base Anacostia- Bolling			

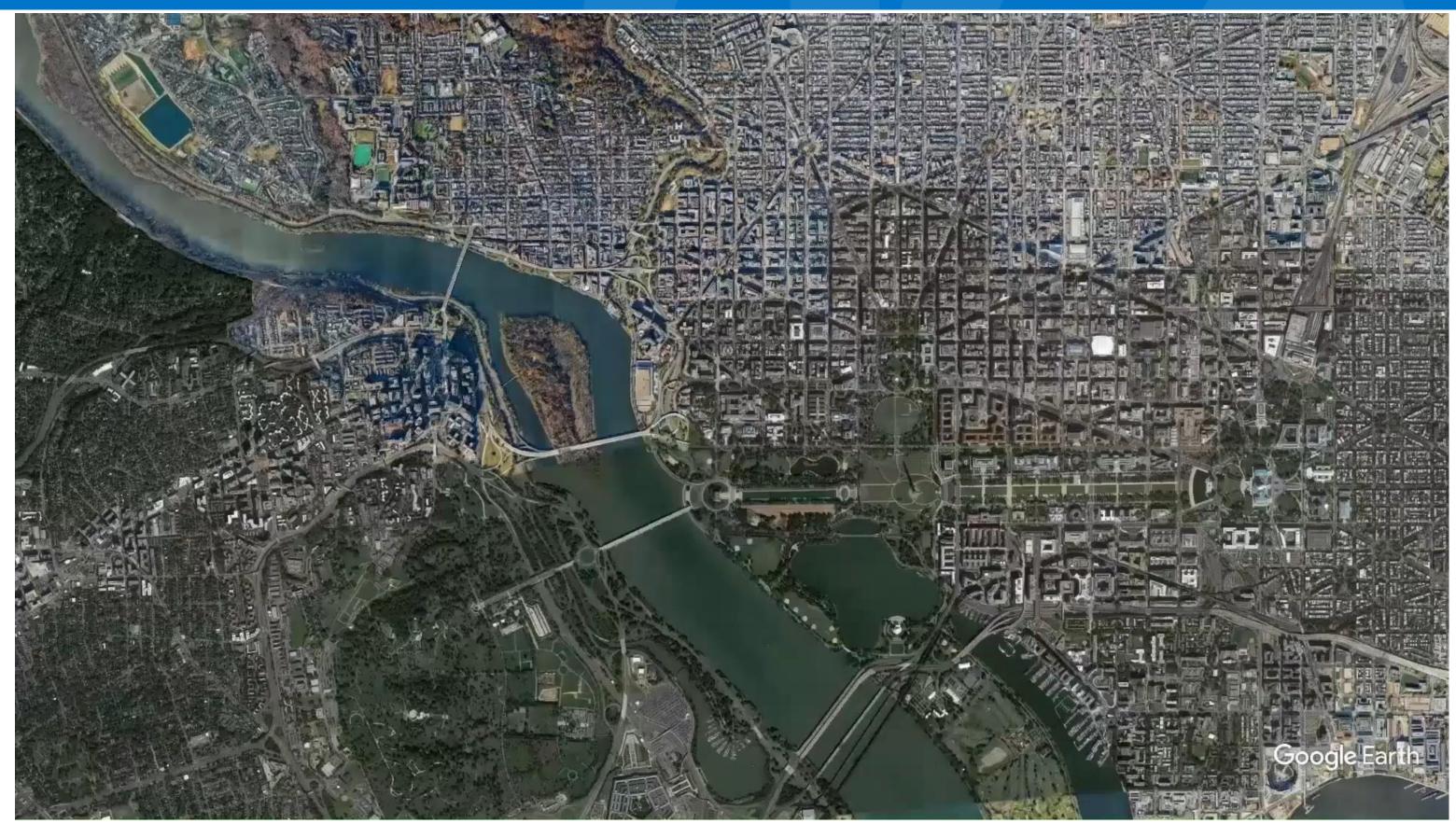


- Approx 5.5 miles of 18' finished tunnel
 - 2.4 miles in rock (north)
 - 3.1 miles in soil (south)
- 7 shafts
- Connection to existing Tunnel System

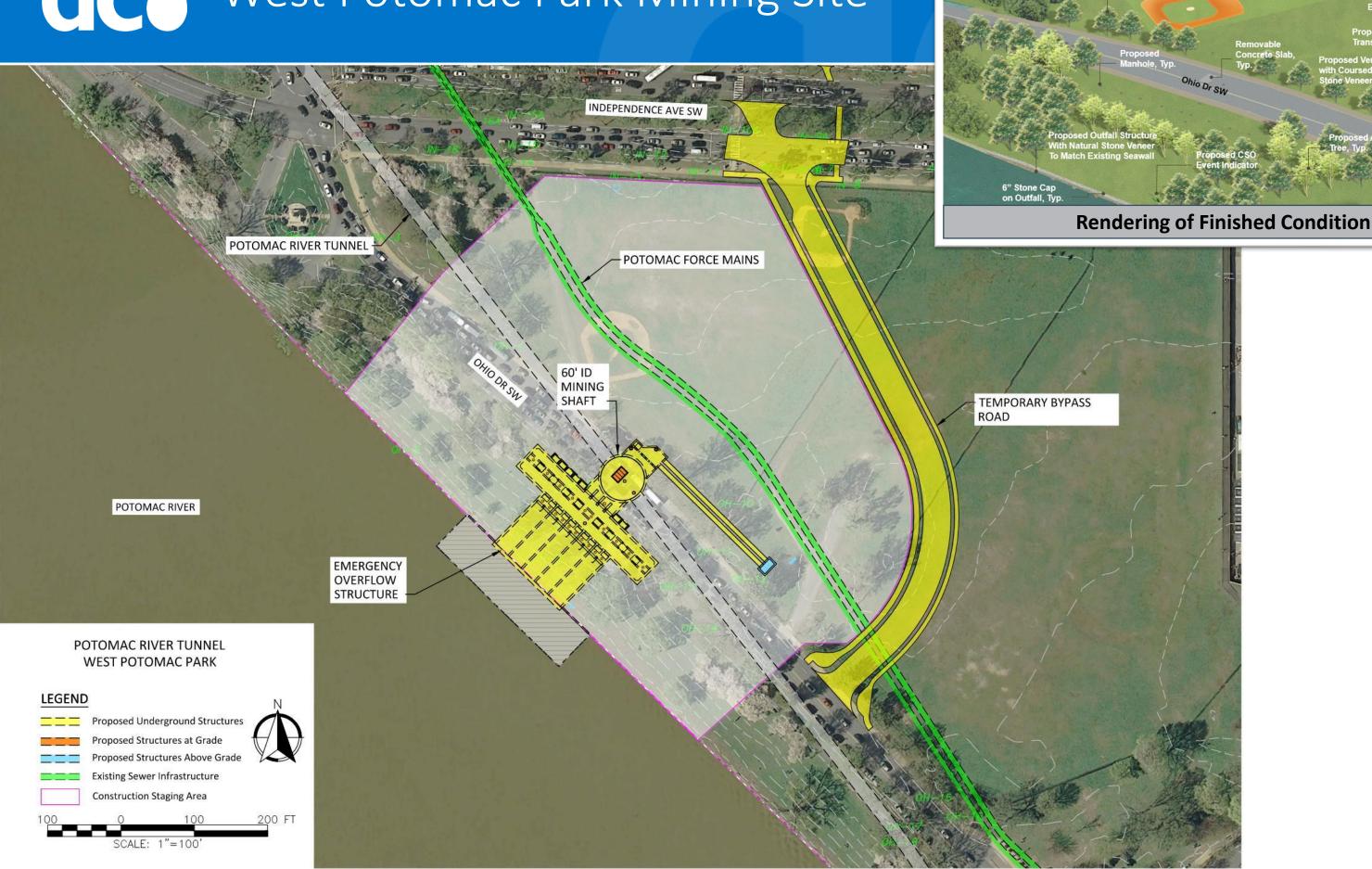
Tunnel Geologic Profile

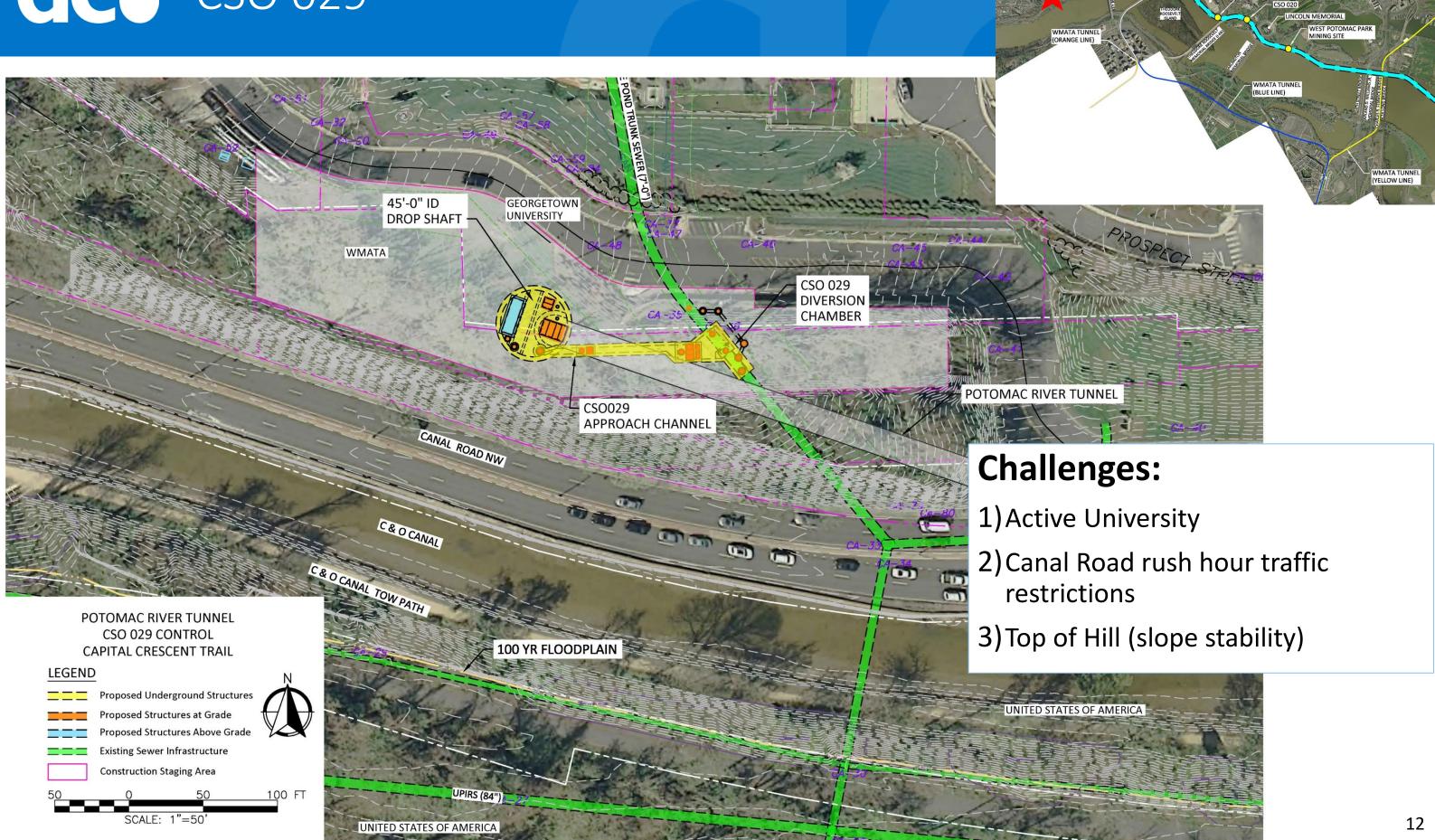


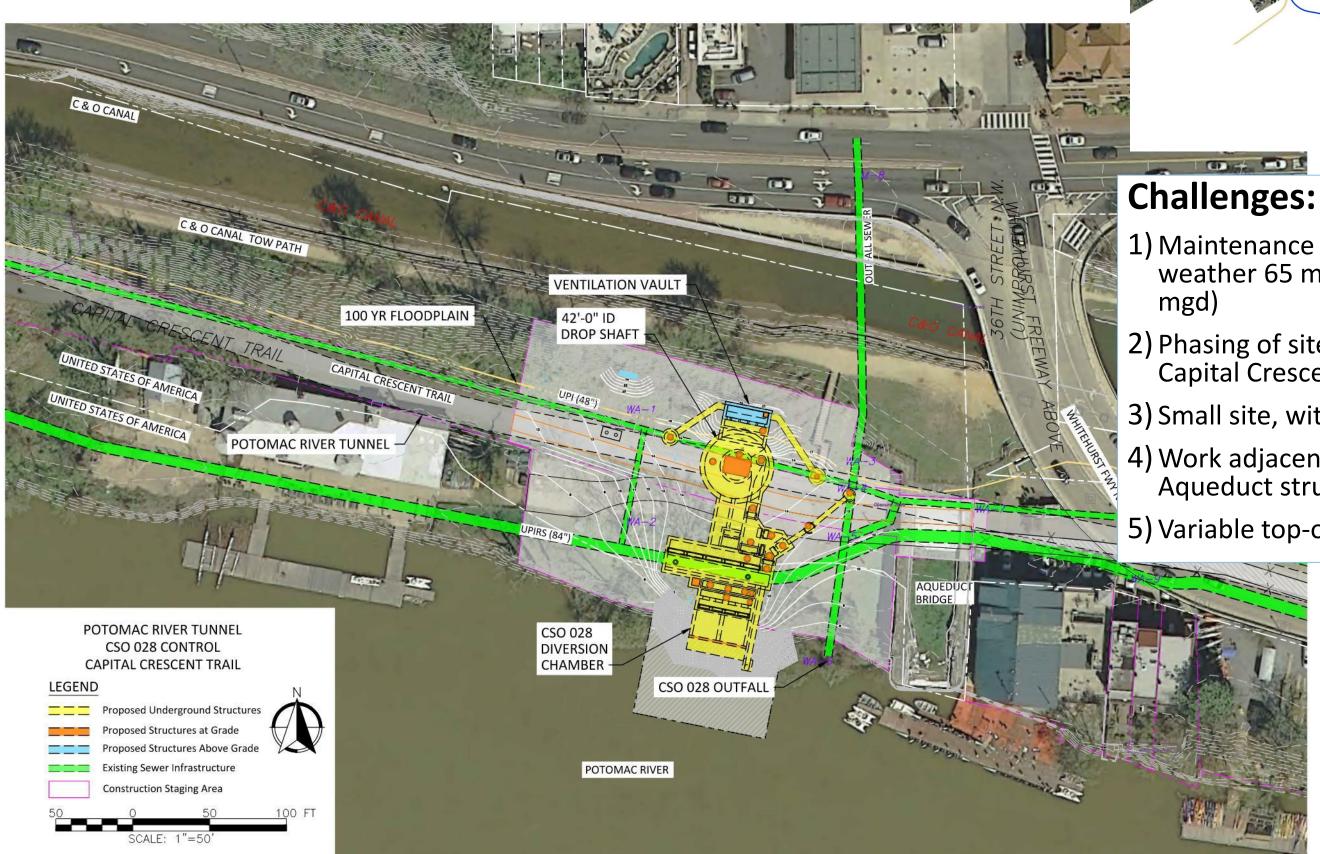
Potomac Tunnel Video



West Potomac Park Mining Site



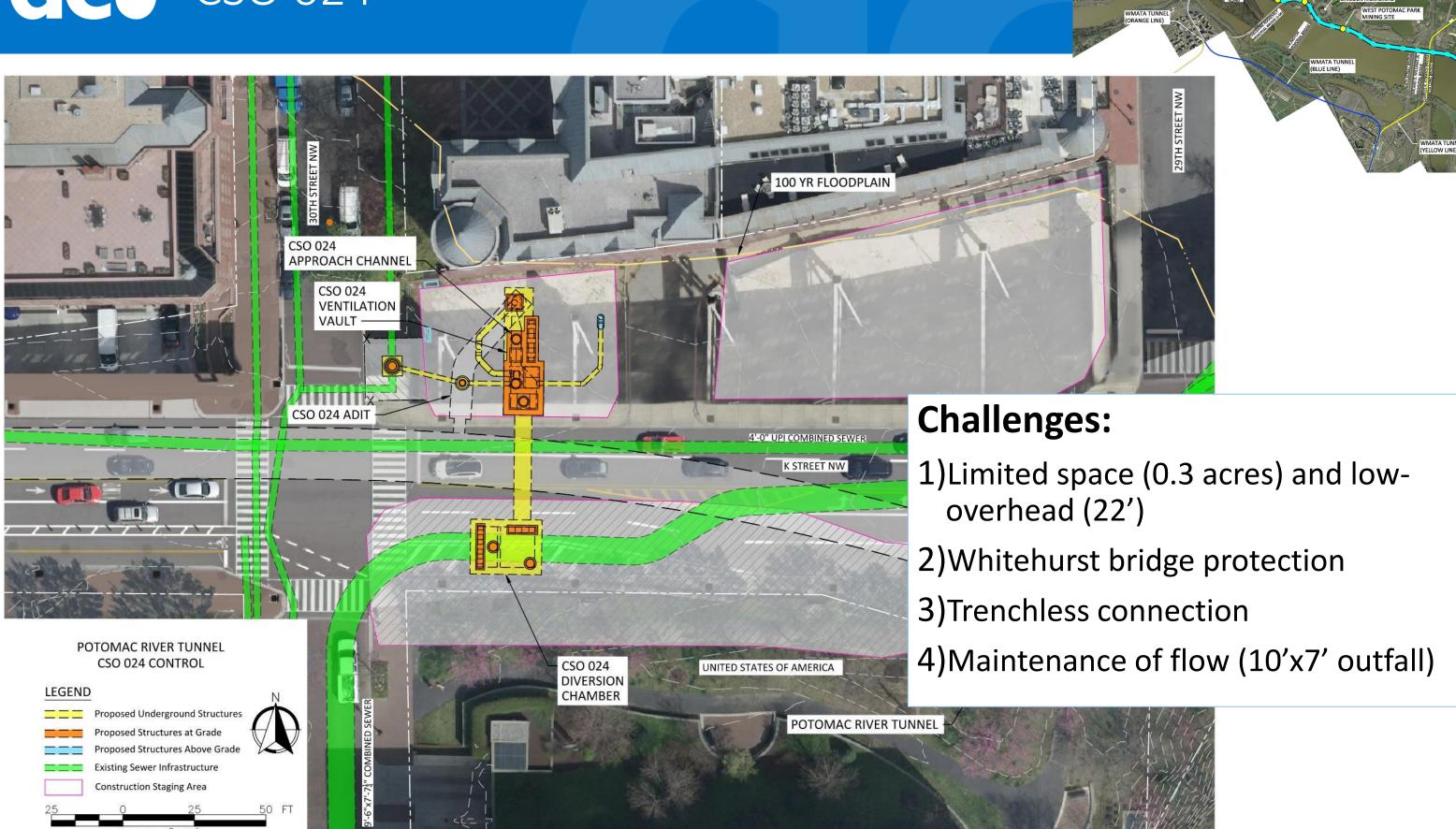


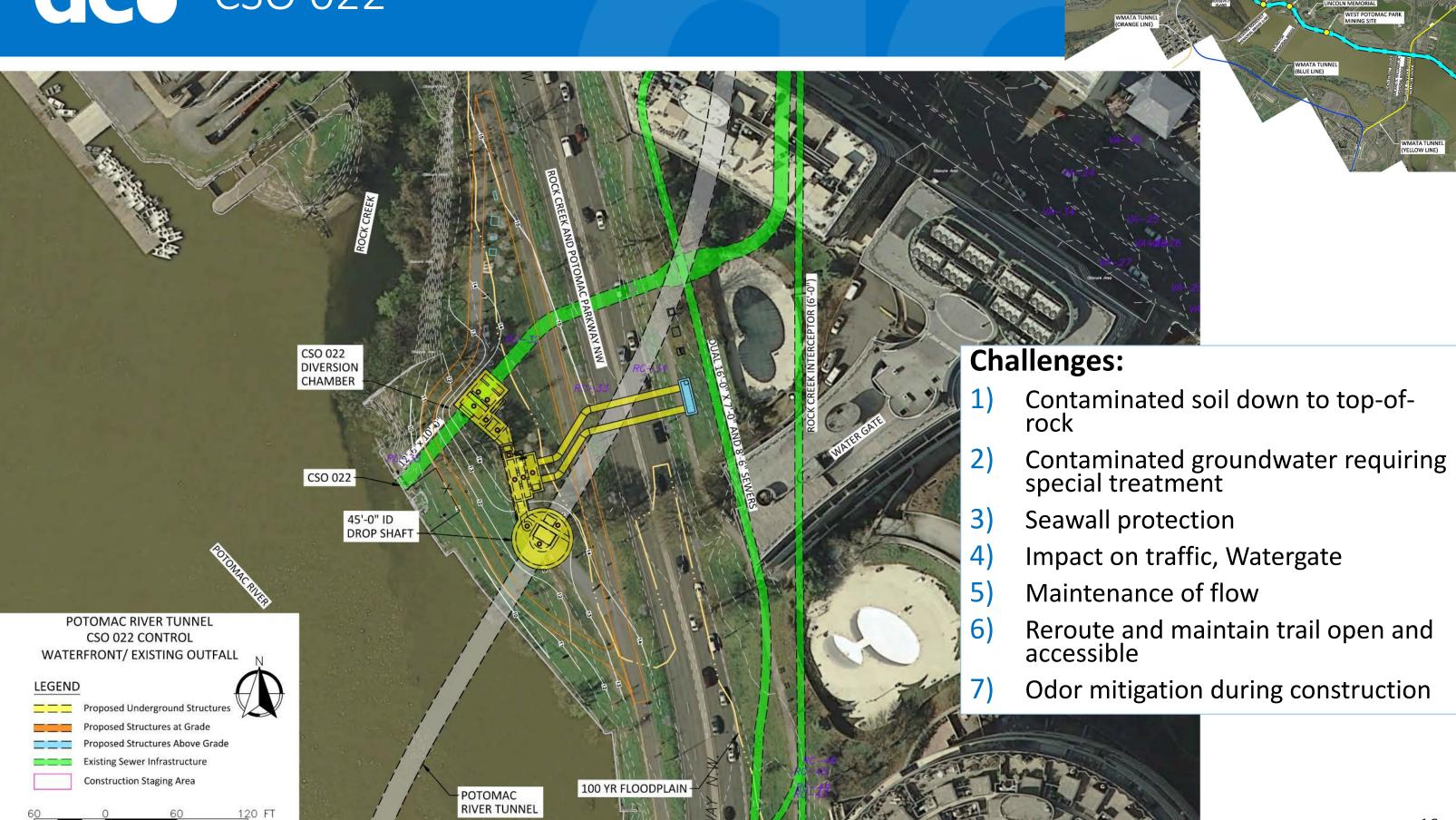


- 1) Maintenance of flow in UPIRS (dry weather 65 mgd, wet weather 240
- 2) Phasing of site required to maintain Capital Crescent Trail accessible
- 3) Small site, with high public use
- 4) Work adjacent to historic Potomac Aqueduct structure
- 5) Variable top-of-rock



- **Challenges:**
- 1) Limited space (0.4 acres) and low-overhead (25')
- 2) Whitehurst bridge protection
- 3) UPIRS and abandoned SOE from 1970s
- 4) Boulders in the Fill
- 5) Impact on traffic and community

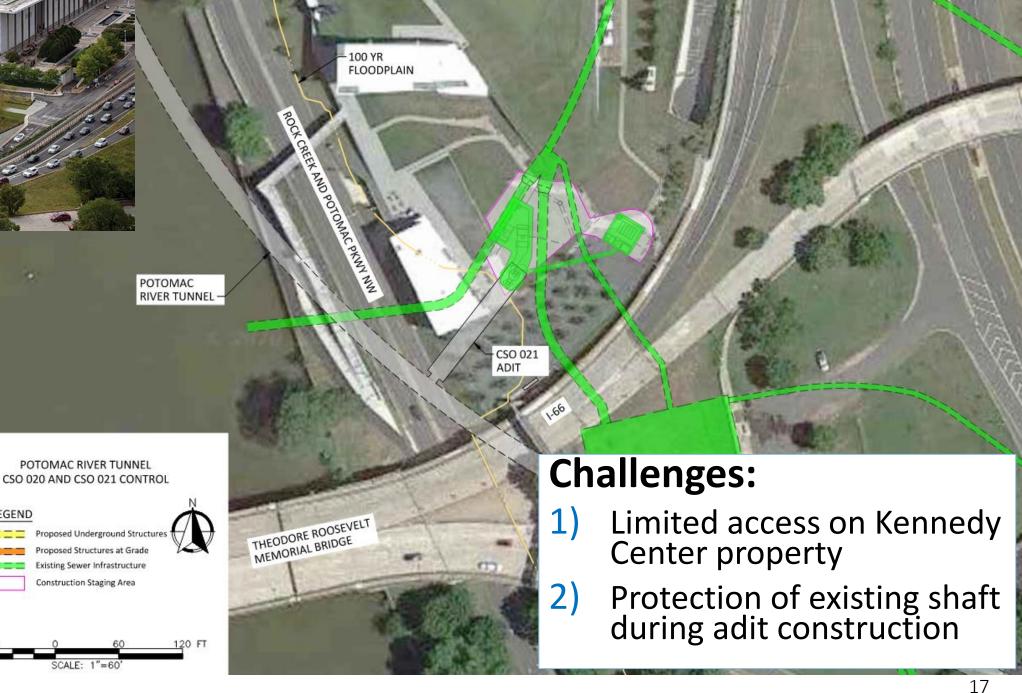


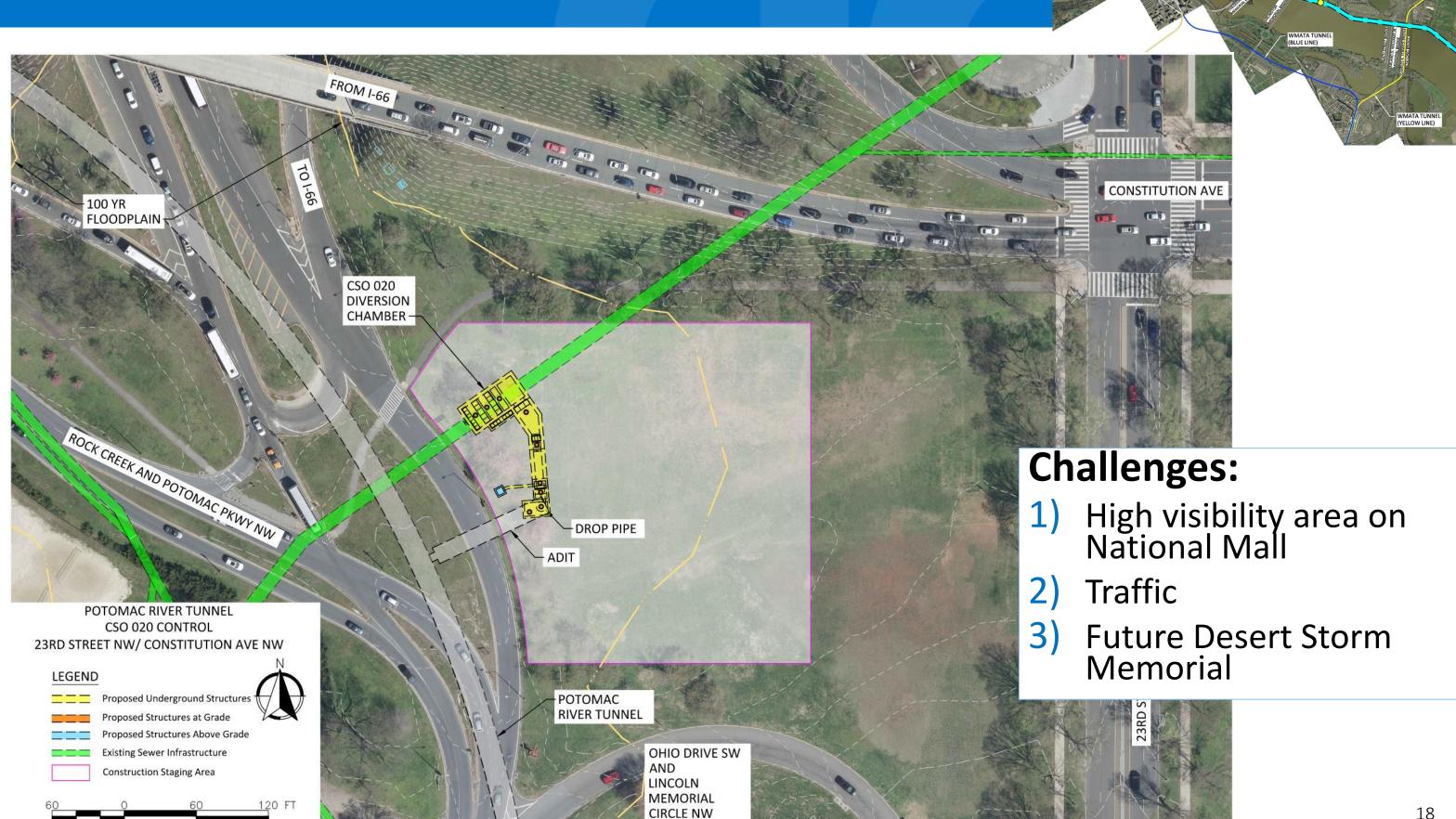






Previously constructed CSO 021 Diversion Structure







C West Potomac Park Mining Site



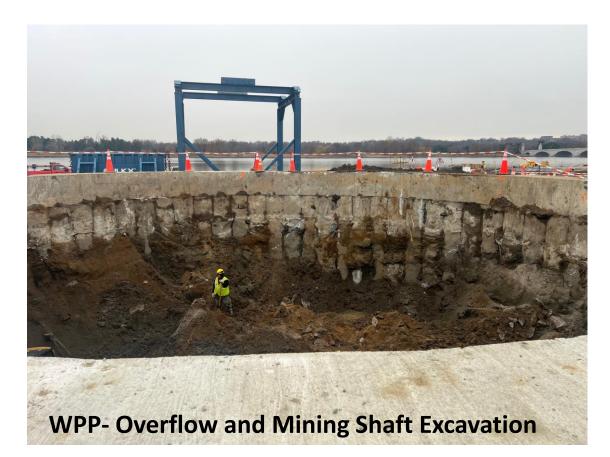
C Connection to Anacostia Tunnel System at JBAB





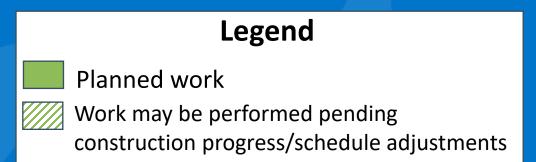
Potomac Tunnel Progress

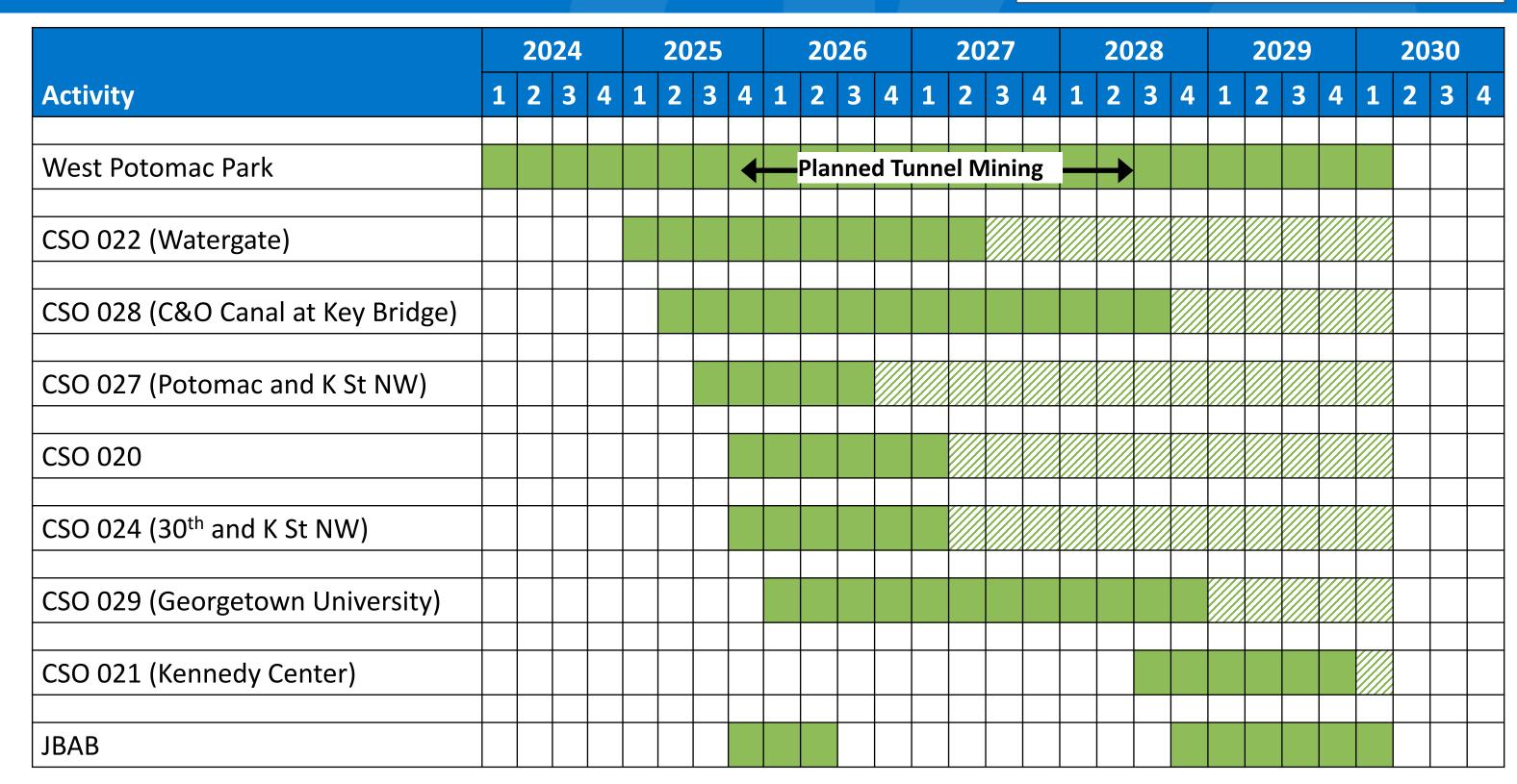
- Design underway
- 2 TBMs ordered and being manufactured
- Major equipment to support mining in planning, design and procurement (segment plant, conveyors, gantry, slurry plant)
- West Potomac Park Mining Site set up and Ohio Drive relocated
- Mining shafts support of excavation and excavation underway





Schedule (simplified)



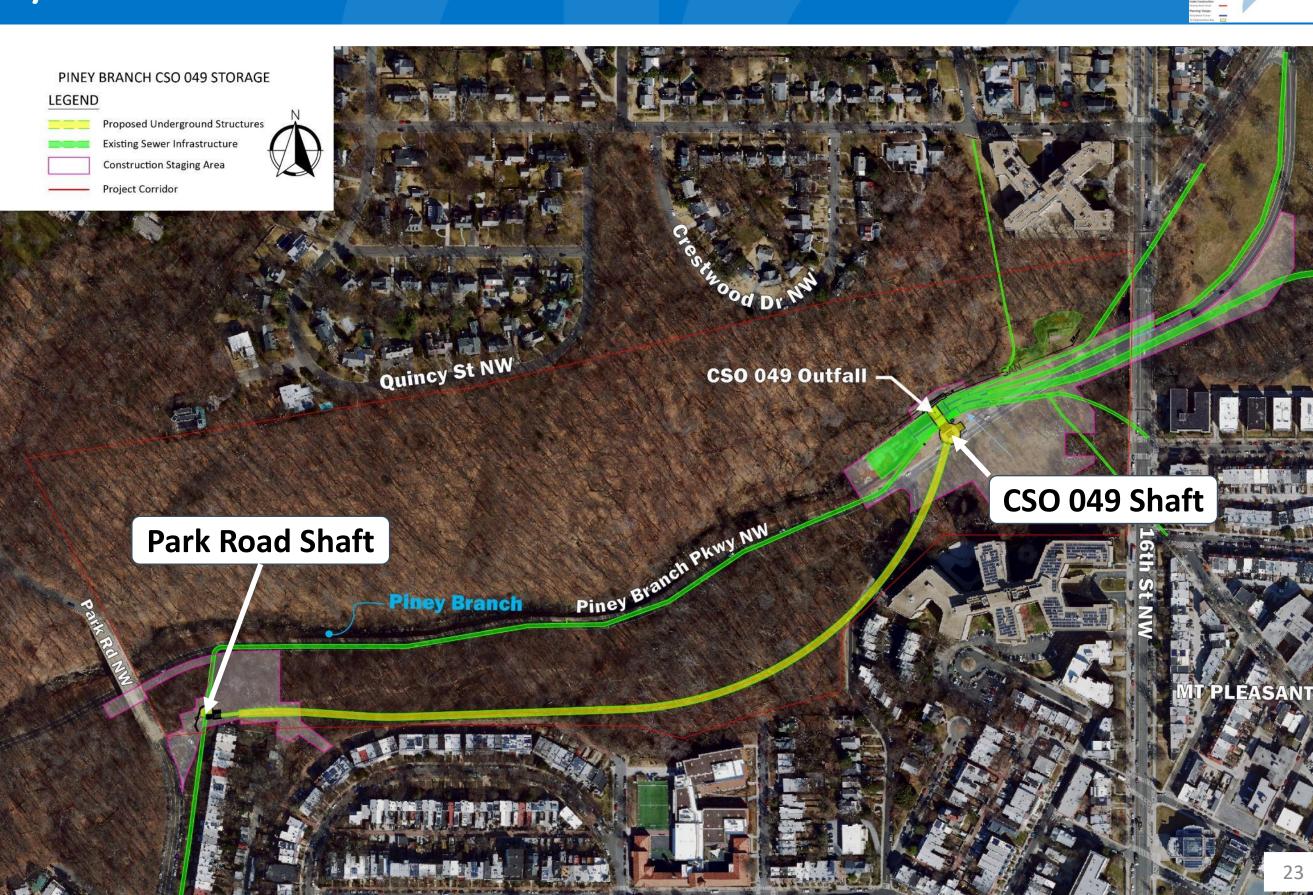


Upcoming Project: Piney Branch Tunnel

Action to the control of the control

- About 0.5 mile, 18' diameter tunnel
- Controls

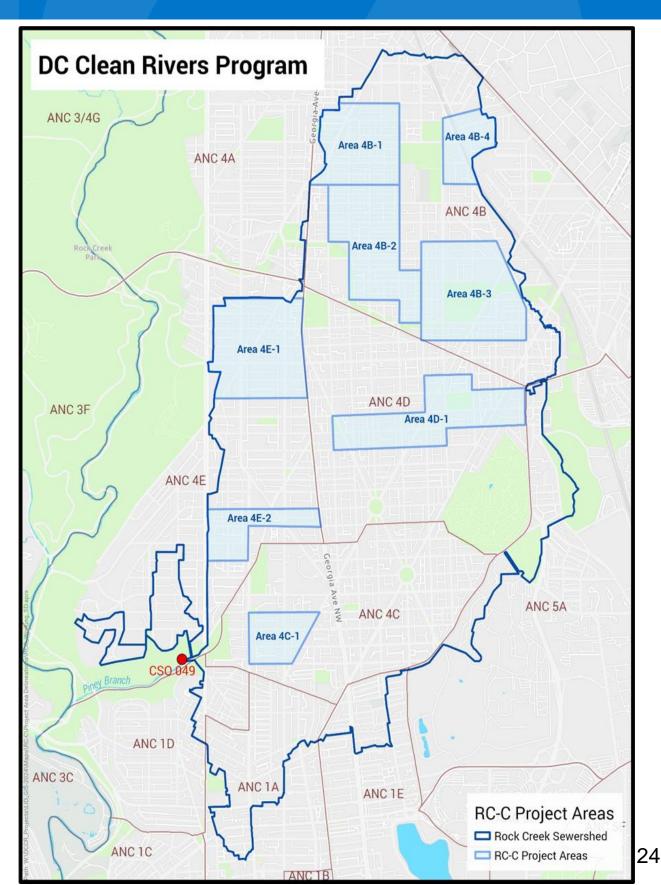
 largest CSO in
 Rock Creek at
 Piney Branch
- Construction
 2026 2029



Upcoming Projects: Green Infrastructure in Rock Creek (Piney Branch)

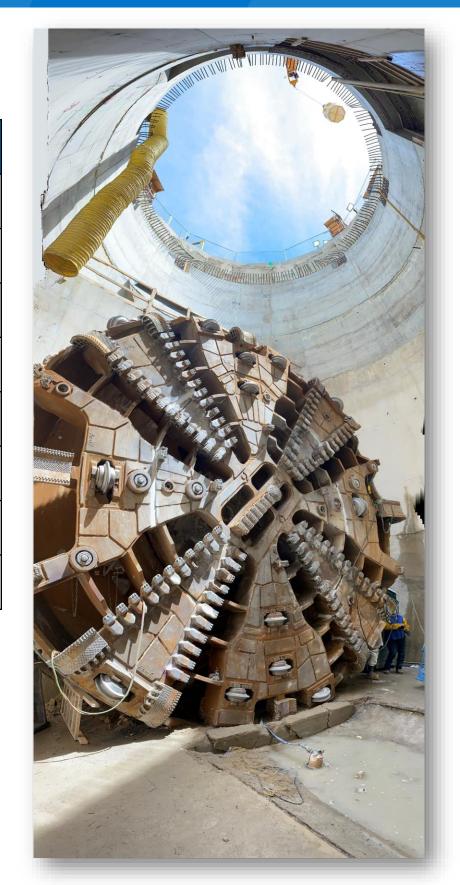
- Two additional projects required by Consent Decree:
 - Rock Creek Project C
 - Place in operation by December 31, 2027
 - Scope: Manage stormwater from 25 impervious acres to the 1.2" Retention Standard
 - Technology: Green alleys (permeable pavers)
 - Rock Creek Project D
 - Place in operation by March 23, 2030
- In total, all projects will manage 92 impervious acres to the 1.2" retention standard





Projects to Complete Consent Decree

Project	Construction Timeframe		
Anacostia River			
Northeast Boundary Tunnel	2017 – 2023 (Completed)		
Potomac River			
Potomac River Tunnel	2024 – 2030 (In Construction)		
Rock Creek			
Green Infrastructure Project C	2025 – 2027		
Green Infrastructure Project D	2028 – 2030		
Piney Branch Tunnel	2026 – 2029		



dc Questions?







