



DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
Board of Directors

Meeting of the
Environmental Quality and Operations Committee

Thursday, September 21, 2023
9:30 a.m.

Microsoft Teams Meeting

Join on your computer, mobile app

[Click here to join the meeting](#)

Meeting ID: 256 285 208 69

Passcode: 5pY3Tw

Or call in (audio only)

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Phone Conference ID: 238 278 502#

9:30 a.m.	I	Call to Order	Sarah Motsch Chair
	II	Roll Call	Michelle Rhodd Board Secretary
9:35 a.m.	III	BPAWTP Performance Update	Nicholas Passarelli
9:40 a.m.	IV	CIP Quarterly Report	David Parker Paul Guttridge
9:50 a.m.	VI	Drone Program	Jason Hughes Tamrat Bedane
10:05 a.m.	VII	Action Items	William Elledge, Joel Grosser Moussa Wone, Rudy Gonzalez, Matthew Brown, Jamal Jones,

Joint Use

1. Contract No. 200100 – DB Potomac River Tunnel Contract B- Tunnel System Construction – CBNA-Halmar Clean Rivers Joint Venture
2. Contract No. 10403 – Small Construction – Eastern Contractors
3. Contract No. 10079 – Ferric Chloride – Carter & Carter Enterprises
4. Contract No. 10396 – Protective Services – Universal Protection Services

Non-Joint Use

1. Contract No. 19-PR-DWS-29 – Utility Locating and Marking Services – Dynamic Concepts

2. Contract No. 230030 – Lead Free DC (LFDC) Lead Service Line Replacement (LSLR) Program FY23-FY26 Block by Block Construction – Multiple Contracts
3. Agreement No. DCFA #455-WSA – Basic Ordering Agreement-Infrastructure XII – Johnson, Mirmiran & Thompson, Inc

10:50 a.m. VIII Other Business/Emerging Issues

10:55 a.m. IX Executive Session*

11:00 a.m. X Adjournment

Sarah Motsch

Follow-up Items from Prior Meetings:

1. Getachew Melsew (Sr. Manager, Planning, Engineering): To provide copy of white paper on the equity analysis benefits and either a presentation to the full Board or the opportunity for Board Members to observe a training session on the equity analysis tool and dashboard. **Due November 2023.**
2. Getachew Melsew (Sr. Manager, Planning, Engineering): To provide a presentation to the committee on risk-based prioritization of our linear assets. **Presenting in October 2023.**

¹The DC Water Board of Directors may go into executive session at this meeting pursuant to the District of Columbia Open Meetings Act of 2010, if such action is approved by a majority vote of the Board members who constitute a quorum to discuss certain matters, including but not limited to: matters prohibited from public disclosure pursuant to a court order or law under D.C. Official Code § 2-575(b)(1); terms for negotiating a contract, including an employment contract, under D.C. Official Code § 2-575(b)(2); obtain legal advice and preserve attorney-client privilege or settlement terms under D.C. Official Code § 2-575(b)(4)(A); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security matters under D.C. Official Code § 2-575(b)(8); disciplinary matters under D.C. Official Code § 2-575(b)(9); personnel matters under D.C. Official Code § 2-575(b)(10); third-party proprietary matters under D.C. Official Code § 2-575(b)(11); train and develop Board members and staff under D.C. Official Codes § 2-575(b)(12); adjudication action under D.C. Official Code § 2-575(b)(13); civil or criminal matters or violations of laws or regulations where disclosure to the public may harm the investigation under D.C. Official Code § 2-575(b)(14); and other matters provided under the Act.



BPAWTP UPDATE



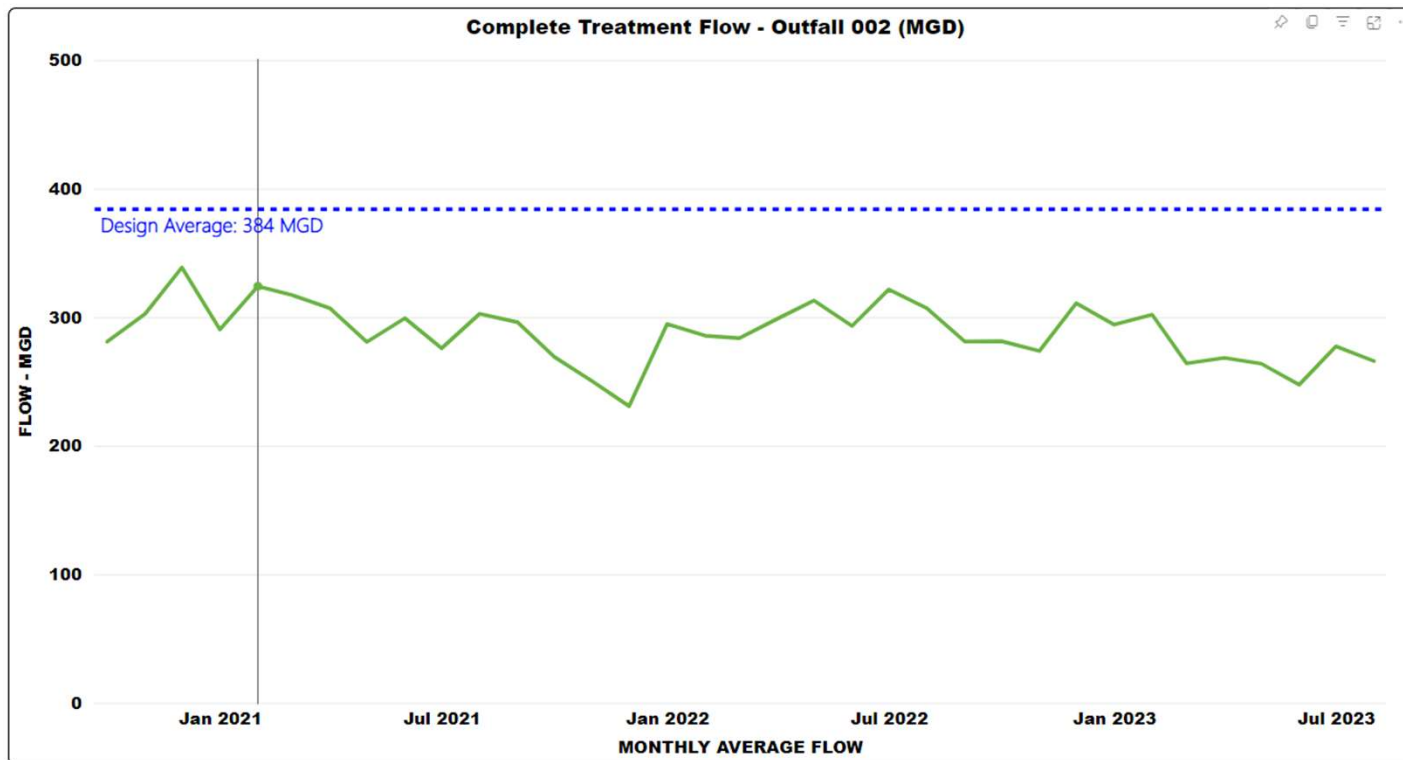
Blue Plains Complete Treatment Performance
Environmental Quality & Operations Committee
September 21, 2023



Nicholas Passarelli, VP, Wastewater Treatment Operations



Monthly Average Flow Trend to Complete Treatment (MGD)



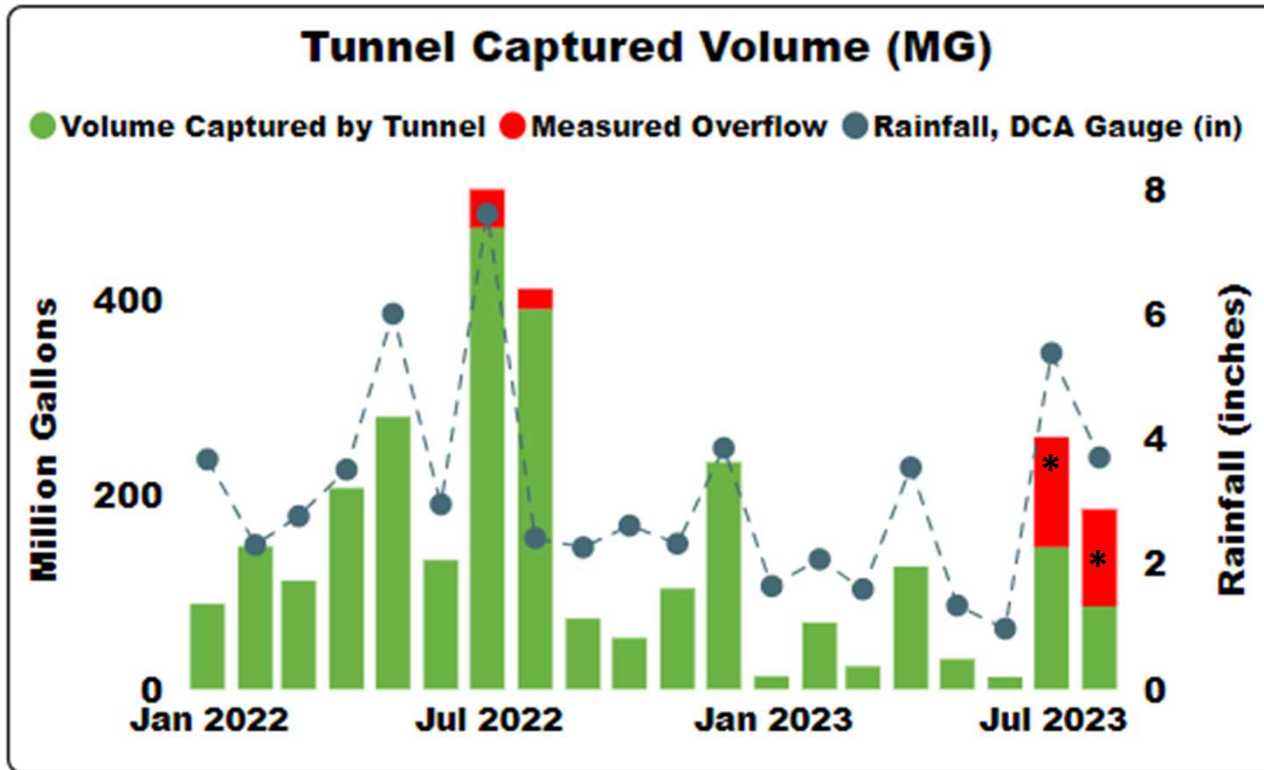
All weekly and monthly
NPDES permit
requirements were met

Average Outfall 002 flow:
266 MGD



Operational Performance Tunnel Systems and Wet Weather Treatment

Anacostia River Tunnel System Annual Performance 2022 – 2023 (Through Aug 2023)



Total System Annual Performance 2018-2022

	Anacostia River Tunnel System	Total System
Number of events	61	398
Volume Captured, MG	14,786	18,177
Volume to CSO, MG	1,342	6,943
Percent Captured, %	91.7	72.4

Note: Total System includes Anacostia, Potomac, and Rock Creek
MG ~ Million Gallons
CSO~ Combined Sewer Overflow

507 MG of volume captured by Anacostia Tunnel in Calendar Year 2023 through August, with 213 MG overflow, with took place in July and August due to outages required by NWBT commissioning

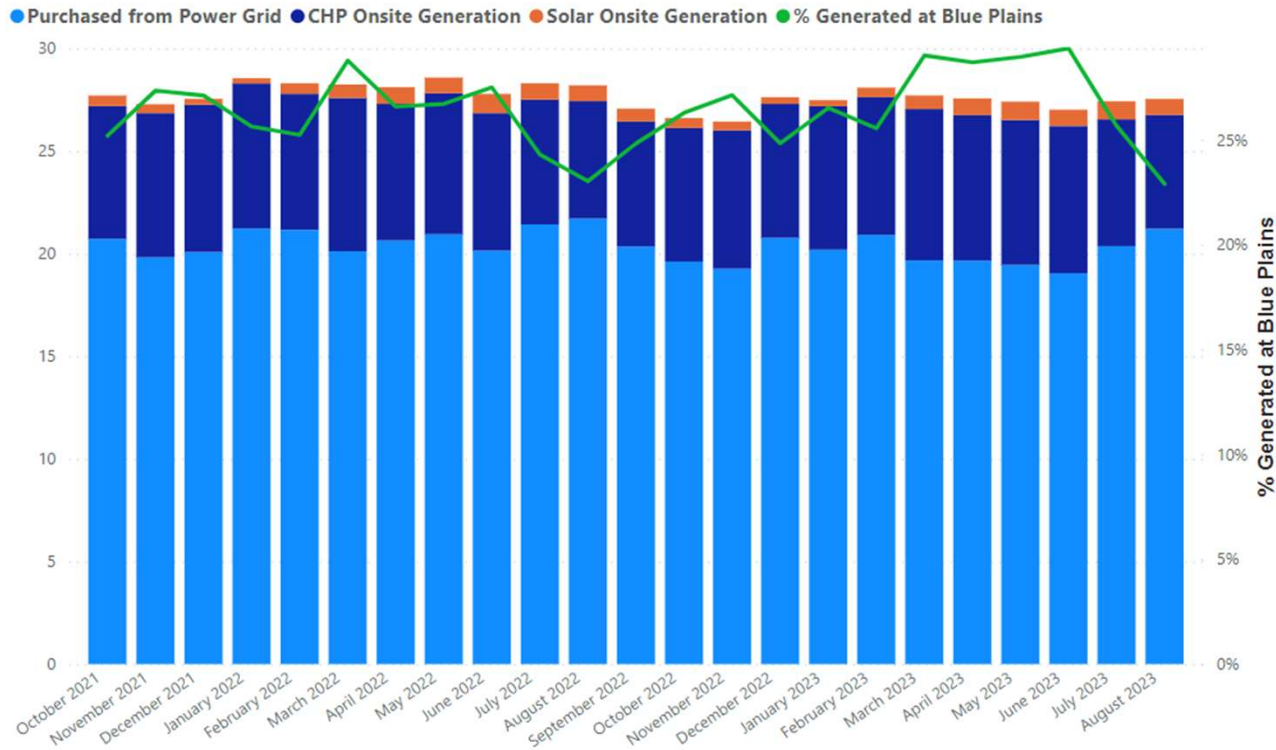
* - CSO 019 diversion to tunnel was out of service July 5 - Aug 29 for commissioning of Northeast Boundary Tunnel, causing temporary increase in overflows. Necessary for safety of workers in tunnel. EPA/DOEE advised in advance.



Operational Performance Electrical Energy Use and Generation

Blue Plains Electrical Energy Use and Generation

Blue Plains Electricity Report



- 23% of electricity was generated onsite
- Combined Heat and Power (CHP) facility produced an average of 6.9 megawatts (MW), with 5.5 MW net to Blue Plains grid
- Solar System produced an additional 0.8 MW of power on average
- Total electricity consumption at Blue Plains averaged 27.5 MW
- DC Water purchased an average of 21.2 MW of electricity from PEPCO

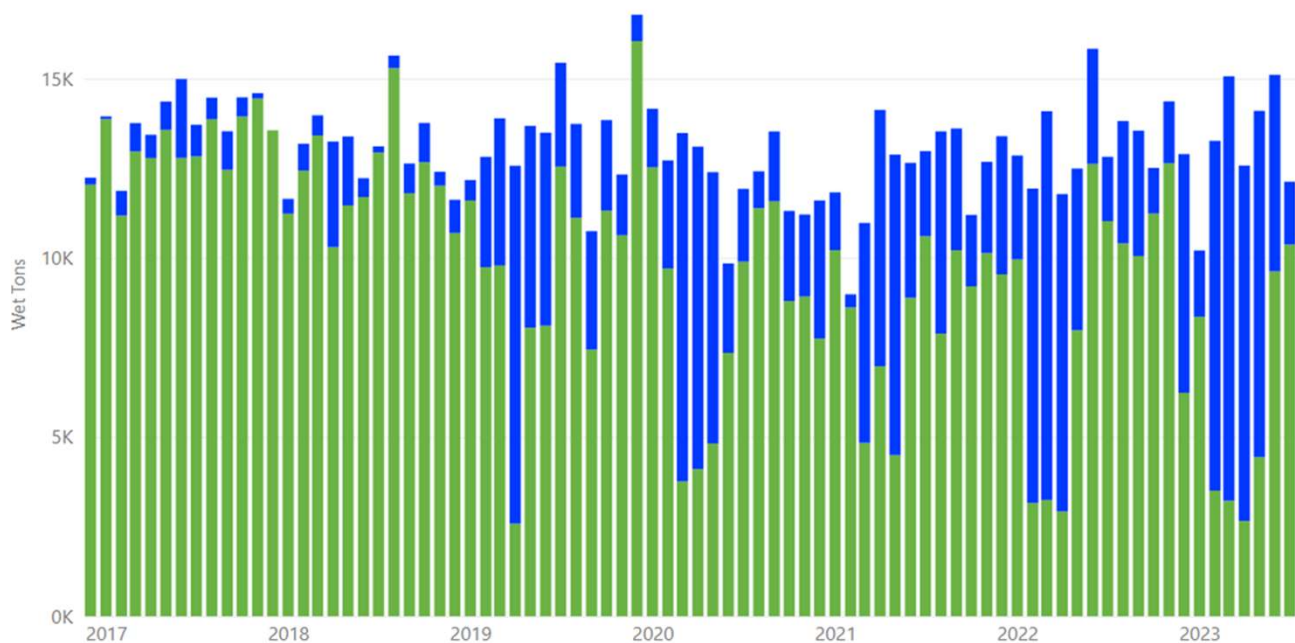


Operational Performance Class A Biosolids Production

Total Production of Class A Biosolids and Beneficial Reuse by Type

Total Production of Class A Biosolids and Beneficial Reuse by Type

● Land Application ● Marketing as Bloom



In August, Blue Drop sold approximately 3252 tons of Bloom, sending us further over the FY23 goal of 55,000 tons to 63,295 tons through August. Blue Plains produced 11,330 tons of biosolids for the month (365 wtpd) with the remaining 8078 tons not sold managed through land application contracts.



Quarterly CIP Update



CIP Quarterly Update
Environmental Quality & Operations Committee
September 21, 2023



David Parker, Vice President of Engineering
Paul Guttridge, Director, CIP Infrastructure Management

- FY23 Quarter 3 CIP Progress by Service Area
 - Non-Process
 - DC Clean Rivers (DCCR)
 - Blue Plains
 - Water
 - Combined Sewer Overflow (CSO)/Storm/Sewer
 - Lead Free DC (LFDC)
- FY23 CIP Quarter 3 Budget Update



Non-Process Facilities

FY2023 Progress

Planning

- a. Roofing & HVAC Assessments: Phase 1 complete, Working on Phase 2
- b. Main & O Seawall: Change to Scope – Pursuing full seawall replacement due to high cost to certify existing seawall
- c. Concept Design Underway – Bryant St and Main PS Upgrades, COF Renovation, Ft Reno Upgrades Spring 2023

Procurement

Request for Proposal Documents Underway for the Following Projects:

- a. Floatable Debris Docks Design-Build – RFP March 2023
- b. Bryant Street Parking Design – DCFA-535 Design BOA
- c. Anacostia Pump Station Design – DCFA-535 Design BOA
- d. Fort Reno Watchman’s Lodge Design – RFP August 2023
- e. Blue Plains SB-1 Warehouse Reno – RFP August 2023

Construction

- a. HVAC Replacements at Blue Plains Facilities - \$900K
- b. Sidewalk Installation at Main PS - \$260K

Fort Reno Renovation



Blue Plains SB-1 Warehouse Renovation



Blue Plains COF Renovation





DC Clean Rivers

Projects in Construction: (see next 2 slides)

Div. J, Northeast Boundary Tunnel

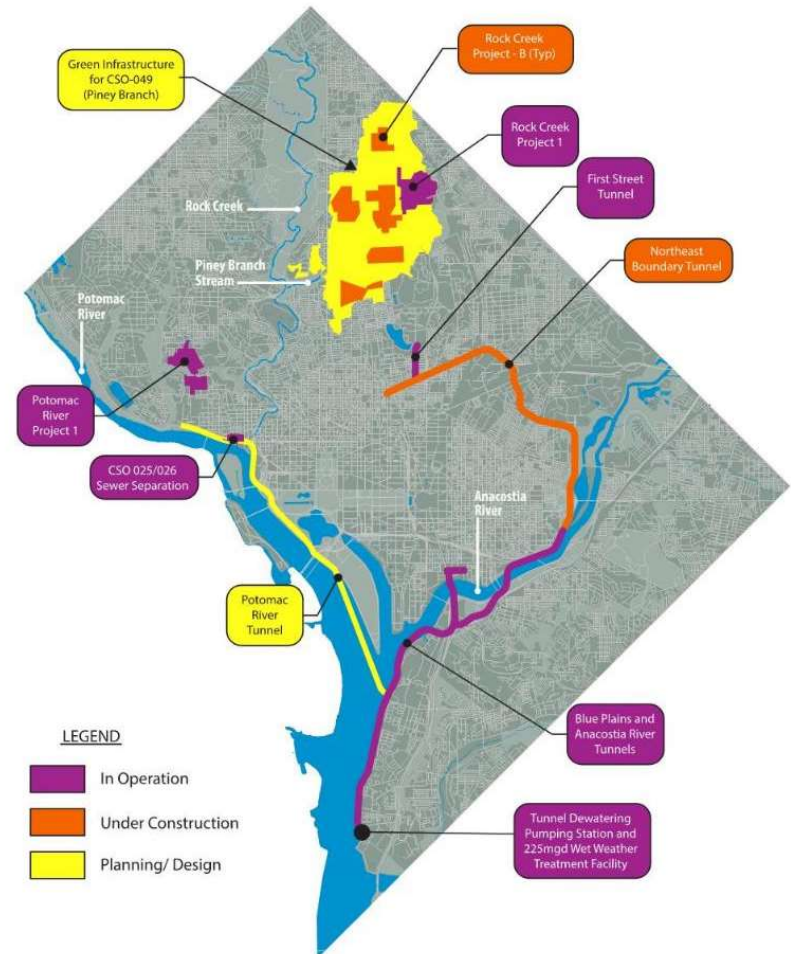
Div. PRT-A, Potomac Tunnel Advance Utility

Div. RC-B, Green Infrastructure Project B

Upcoming Project:

Potomac River Tunnel:

- Project is in procurement
- Contract award (EQ&OPS 9/21/2023, Board 10/5/2023)
- NTP: Nov 2023
- Construction: 2024 – 2030





Clean Rivers Construction Projects (1 of 2)

Div J Northeast Boundary Tunnel

Purpose	CSO control & flood mitigation at known Chronic Flooding Area in Northeast Boundary
Scope	5.5 miles of 23' dia. tunnel, shafts and diversions
Phase	Construction
Contract Value	\$ 579,975,000
% Complete	Approx 98%
Schedule	Tunnel commissioned Sept 15, 2023, ahead of 3/23/2025 Consent Decree deadline. Substantial Completion in November 2023
Progress	Tunnel commissioning completed Sept 15, 2023. Remaining work includes WS VCF and site restorations



R Street Shaft



Tunnel Bulkhead removed at CSO 019

Div PR-C, CSO 025/026 Sewer Separation

Purpose	Separate two CSOs in Georgetown
Scope	Construct new sanitary and storm sewers
Phase	Closeout
Contract Value	\$ 7,799,988
% Complete	100%
Schedule	Project substantially completed on 3/17/2023
Progress	Punch list work and project closeout



Completed Paving at K Street NW



Clean Rivers Construction Projects (2 of 2)

Div PRT-A, Pot Tunnel Advance Utility Construction	
Purpose	Bring power to future Potomac Tunnel work sites
Scope	Electrical duct banks, manholes and appurtenances
Phase	Construction
Contract Value	\$13,943,834
% Complete	100%
Schedule	Project substantially completed on 5/26/2023
Progress	Work change directive work underway to address 4 Way PEPCO duct that conflicts conflict with Potomac Tunnel facilities at CSO 024

Div RC-B, Rock Creek Green Infrastructure Project B	
Purpose	CSO control for Rock Creek
Scope	Alley permeable pavement and bioretention facilities
Phase	Construction
Contract Value	\$ 15,856,873
% Complete	75%
Schedule	Consent Decree deadline 1/23/2024
Progress	27 alleys completed, 2 under construction 17 bioretention completed, 1 under construction



Trench Relocation at CSO 024



Electrical Panel at CSO 020



Alley Permeable Pavement (APP 37-05 B/C)



Alley Permeable Pavement (APP 36-08 A/B)



Blue Plains Advanced Wastewater Treatment Plant

FY2023 Progress

Planning

- Over **60** Tasks including planning studies at various stages of completion
- Flood Wall Sections AB&D – Preparing solicitation documents
- NTP issued for Electrical Improvements and Microgrid Roadmap Study

Design

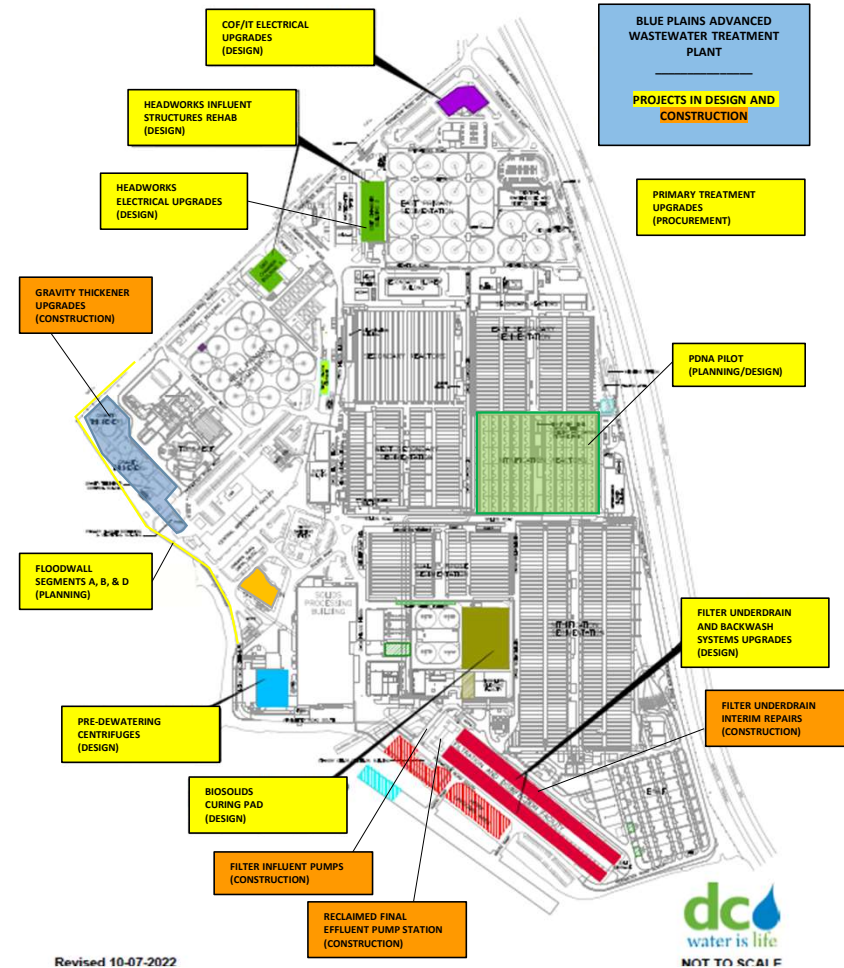
- 9 projects under design with total construction value of \$160M

Procurement

- Awarded Basic Order Engineering Agreement for Design Services to 3 consulting firms
- New RFP to be issued for Primary Treatment Upgrades
- Solar Phase II

Construction

- Gravity Thickener Upgrades Phase 2 on track for Substantial Completion
- Commissioning and vibration analysis of all ten (10) Filter Influent Pumps continue
- Reclaimed Final Effluent Pump System on track
- Interim Filter Underdrain Repairs ongoing
- Notice to Proceed issued to four (4) new MFU contracts





Blue Plains Advanced Wastewater Treatment Plant

Spotlight Project – Gravity Thickener Upgrades Phase 2

Healthy, Safe & Well - *A Safe DC Water For All, Above All Else*

- Over 22,000 manhours worked between the contracting and construction management team has resulted in **Zero (0)** safety incidents and lost days.

Reliable - *Safeguarding a high performing network of systems and Assets*

- Successfully declared Beneficial Occupancy for the following three (3) systems:
- *PSSDB Ventilation System*
- *Flow Distribution Structure and Flow Control Valves*
- *Gravity Thickener Tanks #1 and #3*

Resilient - *Securing Assets Through Value-Driven Asset Management*

- During Q2, this project has upgraded and turned over 82 new assets to DC Water Operations.
- The integration of these assets will increase our operational efficiency, decrease our failure risks, and aid the value-driven approach into our asset management plan

Sustainable - *Identifying Innovative Funding and Financing*

- The construction project has successfully completed \$1,294,301 in construction work to which \$1,035,440.80 is eligible for reimbursement from the EPA.

Equitable - *Ensuring Inclusive and Diverse Representation*

- During Q2, \$285,156 construction dollars was completed and invoiced from Certified Business partners.
- Project is on target to meet the 32% (DBE) and 6% (WBE) participation goals





Blue Plains Ongoing Construction Projects

**Gravity Thickener Upgrades
GT-1 through GT-10**



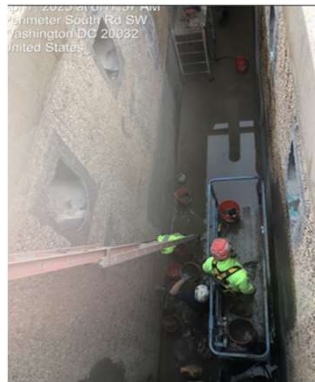
**Filter Influent Pumps 1-10
Replacement Project**



Grit Chamber Baffle Wall Project



Interim Filter Rebuild Project



**Reclaimed Final Effluent Pump
Station Upgrades**





CSO, Sanitary, Stormwater Linear

FY2023 Progress

Planning

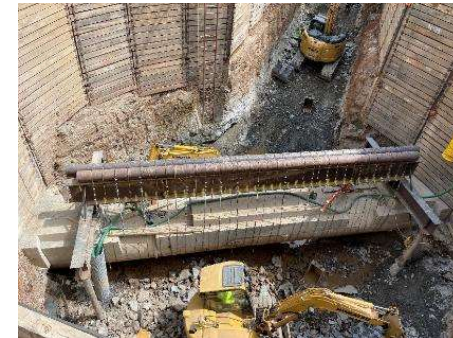
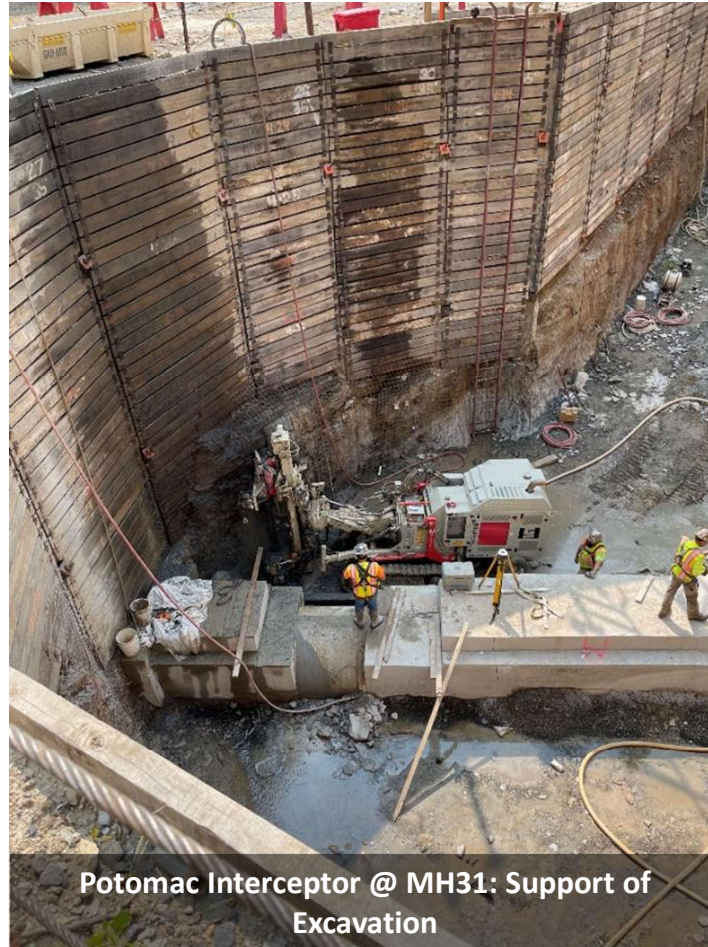
- Continued work on emergency repair on East West Outfall.
- Proactive inspection and the ongoing repair prevented a major sinkhole.

Design

- Completed construction procurement for rehabilitation Northeast Boundary Trunk Sewer. Using geopolymer material.

Construction

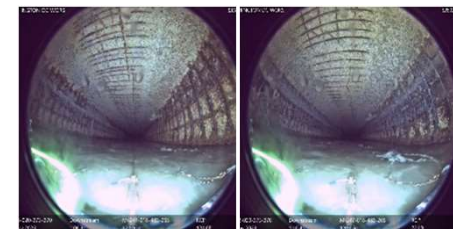
- Continued construction on Potomac Interceptor



Potomac Interceptor @ MH31:
Pipe Support



East West Outfall:
Degradation of center wall



East West Outfall:
Reinforcement exposed



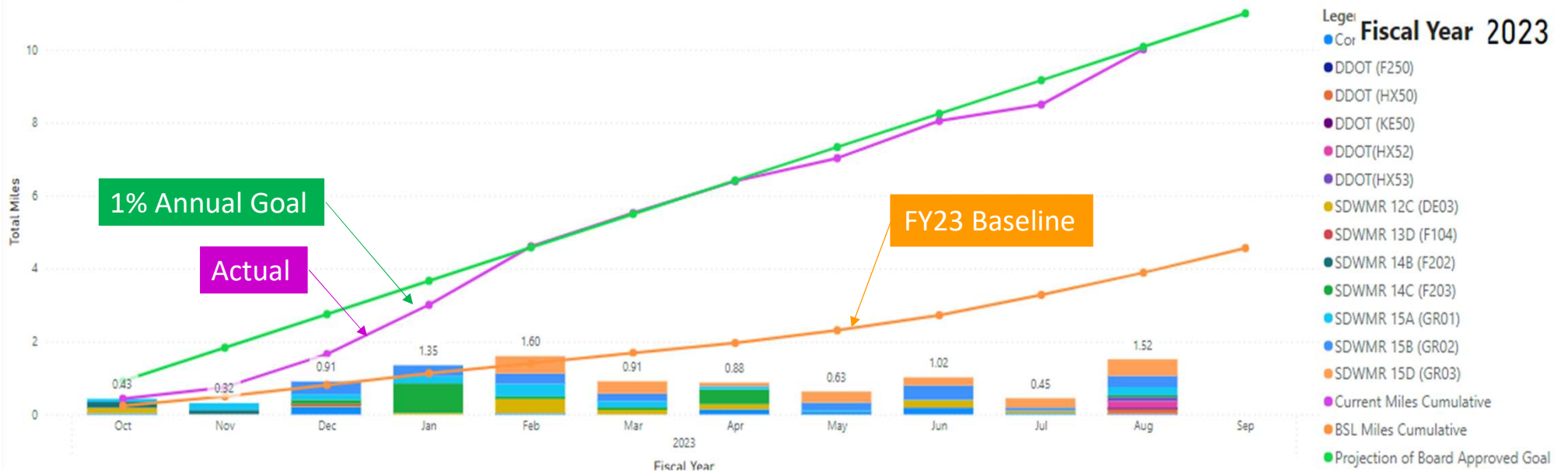
FY2023 Progress

Planning: Preparing for selection of water mains to be included in next SDWM projects

Design: Started solicitation for two more Small Diameter Water Main projects

Construction: Well above baseline plan (see dashboard below)

Actual/Planned Water Main Renewed by Fiscal Year

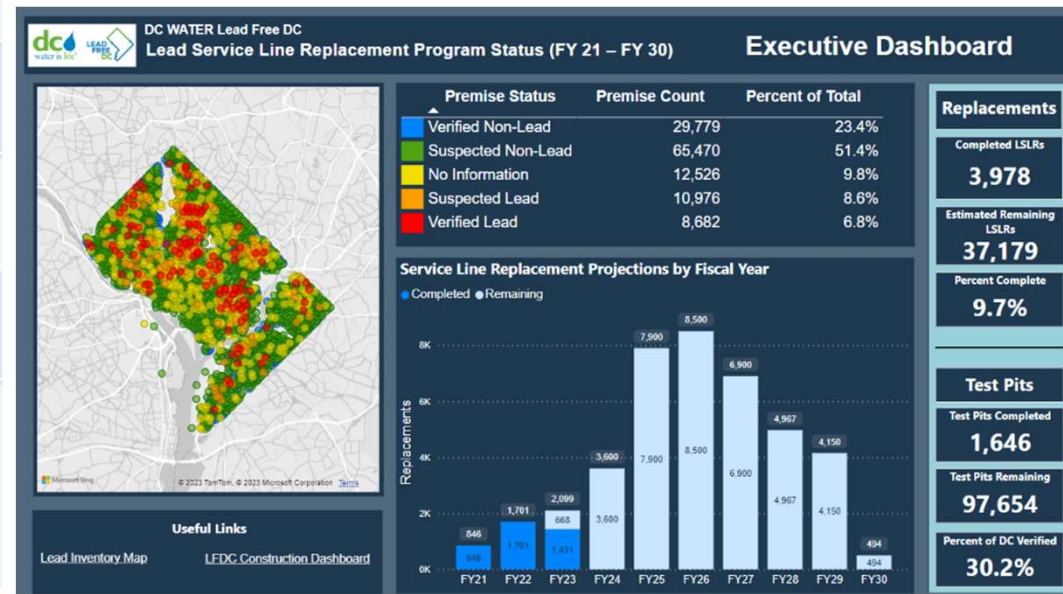
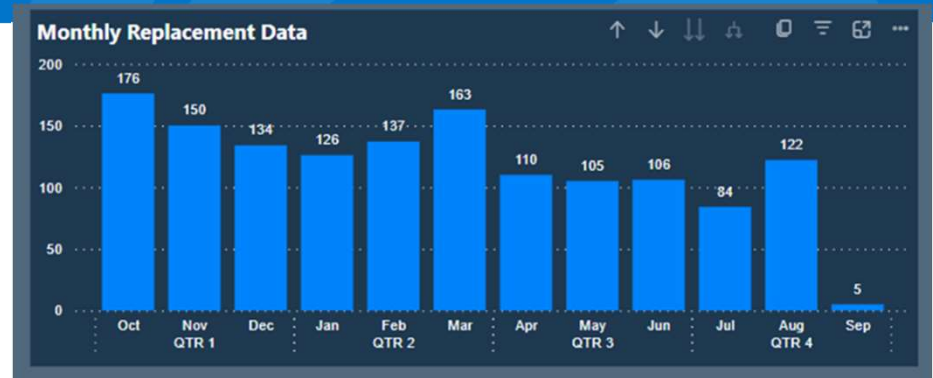




Lead Free DC Program

FY2023 Progress

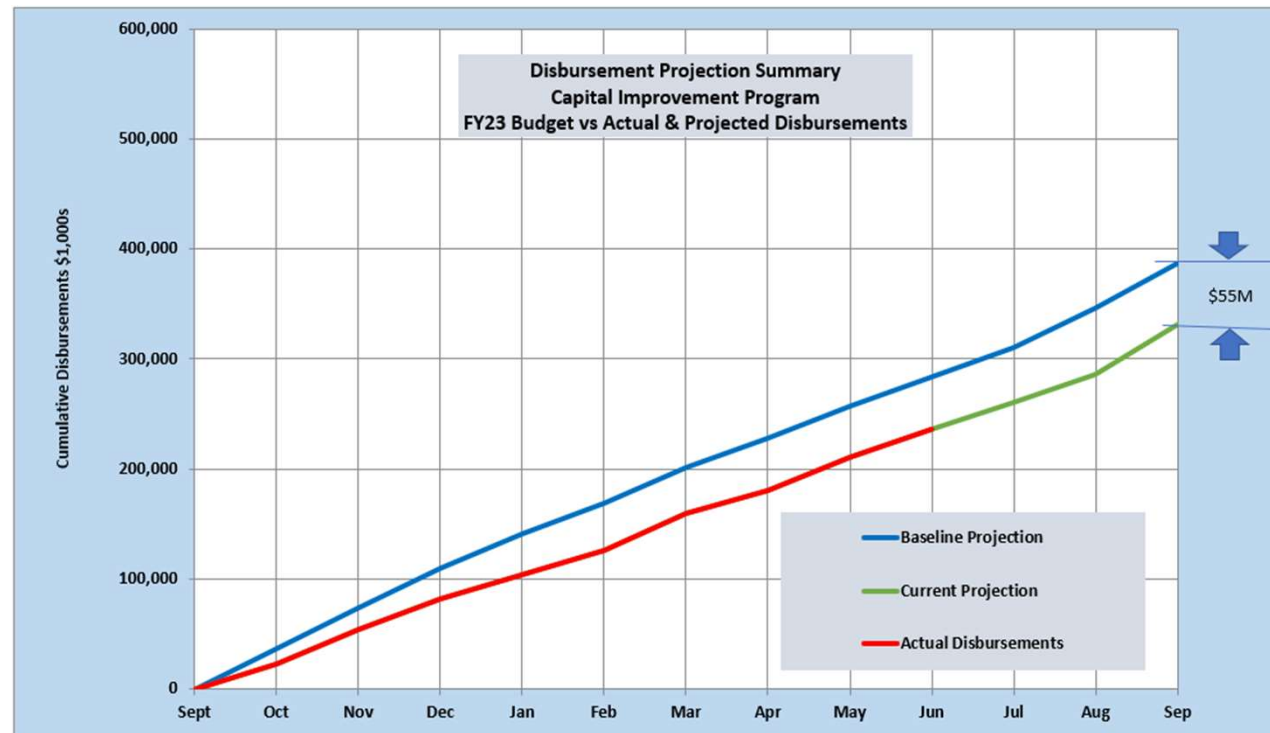
- DDOT lifted permit hold for restoration.
- **LFDC MOU:**
 - Technical teams at DCW and DDOT agreed on terms.
 - DDOT legal review remains.
 - DDOT agreed to extended work hours and full block closures on local roads.
- DC Water participated in more than 20 Advisory Neighborhood Council Meetings.
- Participated at Council Hearing on proposed legislation to mandate homeowner participation.
- Initial public canvassing exceeding 50% participation (highest signup rate on first outreach ever).
- Completed procurement for four construction packages. Started procurement for three more construction packages. These represent bulk of work to be executed in FY24 and 25.





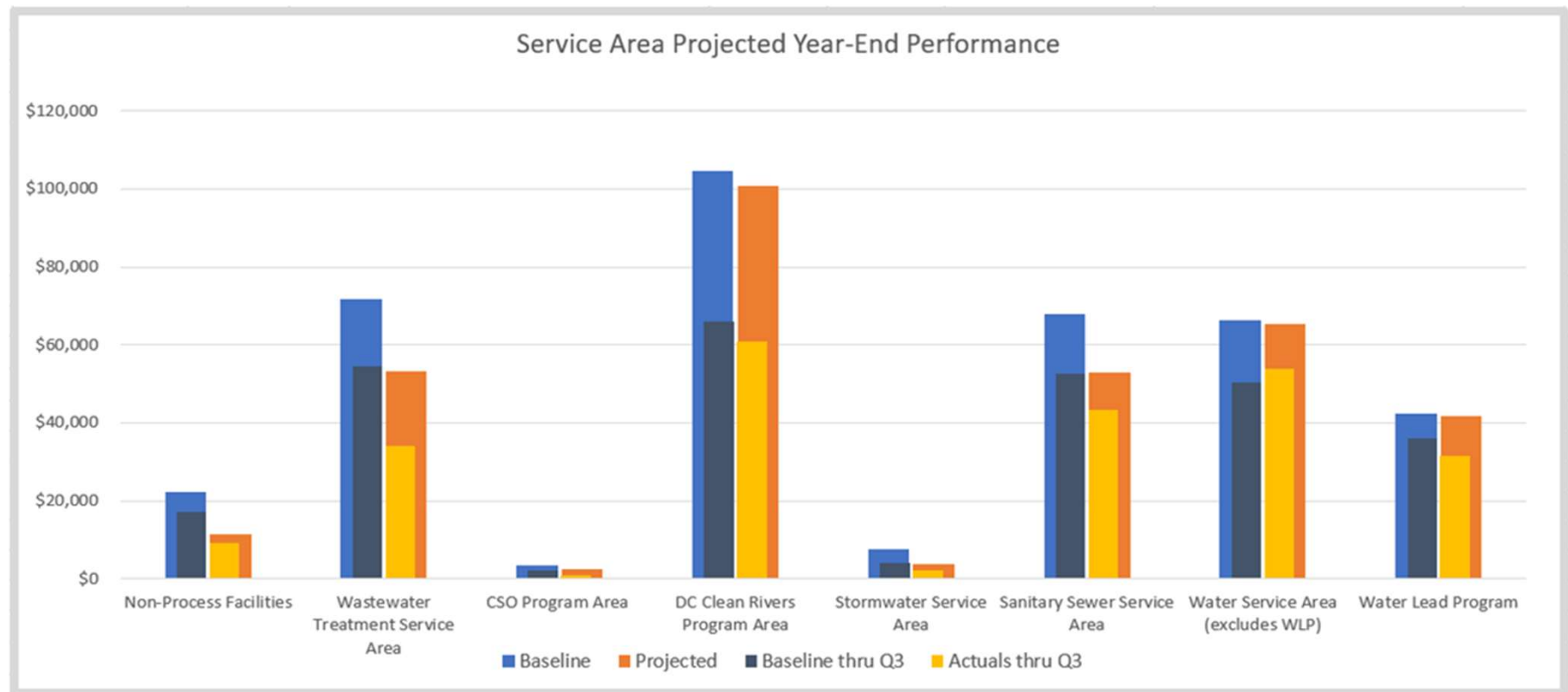
FY23 CIP Disbursement Performance

- The Baseline projection for FY23 was developed to better align with the anticipated execution of the planned work. Total Baseline budget is \$386.5M
- The current projection for total program disbursements through the end of the fiscal year compared with the FY23 baseline budget are shown in the chart (right).
- The fiscal year 2023 thru Q3 CIP disbursements were **\$236M**. We anticipate achieving approximately 85% of the baseline plan by the end of the year.





FY23 Performance by Service Area





FY23 CIP Q3 Performance by Service Area

- **Non-Process Facilities – Current forecast underspending of \$10.6M (baseline \$22M, forecast \$11.5M):**
 - Project HH - Main and O Relocation – Temporary occupancy permit took longer than expected, but has been achieved for Fleet Management Facility. Final contract closeout.
 - Project SF Solar Projects - The Fort Stanton solar project was scheduled to begin in FY23 and has been postponed while a project for upgrades to the Fort Stanton reservoirs is established and planned
 - Project Non-Process Area Roofs – Phased roof assessments were started in FY23. Roof work construction spending projected for FY23 is now projected to begin in FY24
- **Wastewater Treatment Service Area – Current forecast underspending of \$18.5M (baseline \$71.9M, forecast \$53.3M):**
 - Effluent Filter Upgrades (project IY) - Based on contractor’s field investigation in the filter cells, the design engineer identified a cost-effective solution that would result in a more robust product. DWT and DWE agreed that this scope change is warranted despite the resulting schedule delay. Despite the \$8.5 Million variance for FY23, the spending projection is expected to get back in schedule in FY24.
 - Primary Treatment Sludge Piping (project J2) - Ductile iron piping lead time got as high as 1.5 years. The lead time is starting to decrease.
 - Electrical Power Systems (project TZ) – For electrical equipment, the lead time has doubled and even tripled in recent years.
 - WTPM II (contract A503) - Factors such as Reprogramming Requests have resulted in Program Manager’s invoicing delays. There is an ongoing effort to improve the invoicing process.
 - MFU 8 (misc. projects)- New contracting structure and getting four contractors onboard has resulted in initial delays.
- **CSO Program Area – Current forecast underspending of \$1.0M (baseline \$3.5M, forecast \$2.4M):**
 - Main & O St. PS (project FQ) – Design change, requiring change order & 6-moth extension, for O St. Ventilation work (MFU 6).
- **DC Clean Rivers Program Area – Current forecast underspending of \$8.4M (baseline \$104.6M, forecast \$96.2M):**
 - Projected to underspend the project contingency allowances, for risks that have not materialized during construction and reduced retainage release to protect DC Water as part of the closeout.



FY23 CIP Highlights by Service Area (Continued)

- **Stormwater Service Area – Current forecast underspending of \$3.8M (baseline \$7.5M, forecast \$3.7M):**
 - Project NG - Stormwater Pump Stations Rehabilitation project is forecast to be underspending by \$2.5M, with invoicing delays a factor.
- **Sanitary Sewer Service Area – Current forecast underspending of \$15M (baseline \$68M, forecast \$53M):**
 - The Sewer On-Going Projects program area is forecast as underspending by \$3.2M, the nature of this emergency rehabilitation work is typically difficult to forecast.
 - The Soapstone project had permit delays and issues to productivity due to technical issues, accounting for approx.\$2M of forecast underspending.
 - There are multiple projects with insignificant variances that make up the remaining delta.
- **Water Service Area –Current forecast underspending of \$2.0M (baseline \$109M, forecast \$107M):**
 - The Water Distribution program area is proceeding ahead of schedule.
 - Water On-Going Projects program area is underspending, the nature of the emergency rehabilitation is work is typically difficult to forecast.



Schedule - Key Performance Indicators

Summary of FY23 Key Performance Indicators (KPIs):

	Performance
32	Total KPIs due this year
15	KPIs completed within threshold
5	KPIs outside threshold (>90 days)

Q3 KPIs achieved within the 90-day threshold:

Job	Job Name	KPI type	Due Date (Baseline)	Actual Completion Date
U502	4th High Reno WSSC Interconnection	KPI Design Start Milestone	1-Apr-23	13-May-23
FW01	Piney Branch Sewershed Rehab, Phase 1	Construction Start Milestone	16-Jul-23	22-Jun-23



Schedule – KPIs continued

Q3 KPIs not achieved within the 90-day threshold:

Job	Job Name	Delta	Comment	Due Date (Baseline)	Est. Completion Date
UC06	Upgrades to Filtration Influent Pumps 1-10	-221	Construction Substantial Completion pending investigation and resolution of pump vibration issue.	22-Nov-22	1-Jul-23
HH01	New Fleet Management Facility	-91	New Fleet Facility: Construction Substantial Completion was negotiated with Hess Construction as 12/31/22.	1-Oct-22	31-Dec-22 (Actual)
I801	Large Valve Replacements 11R	-241	Construction Substantial Completion pending completion of final contract items and final site restoration. Due to ongoing dispute resolution w/contractor.	31-Mar-23	27-Nov-23
RC01	Rehabilitation of Rock Creek Main Interceptor & Beach Drive Sewers	-1001	Milestone link moved from CFR to BDS	1-Feb-23	29-Oct-25
RJ01	Creekbed Sewer Rehabilitation Rock Creek - Sherill Drive & Beach Drive	-154	Design Start experienced protracted task order negotiations in order to get task costs from subconsultants	28-Jan-23	1-Jul-23

Drone Program



Drone Program
Environmental Quality & Operations Committee
September 21, 2023



Jason Hughes, Vice President, Water Operations
Tamrat Bedane, Manager, Linear Asset Management
Severin Hanou, LAMB Technician III, Water Operations

- Show you what we've accomplished
- Tell you why we're doing it
- Talk about the real and potential uses at DC Water
- Gather your feedback

System-wide Coverage

Safety Improvements

Access to Inaccessible or Hazardous Locations

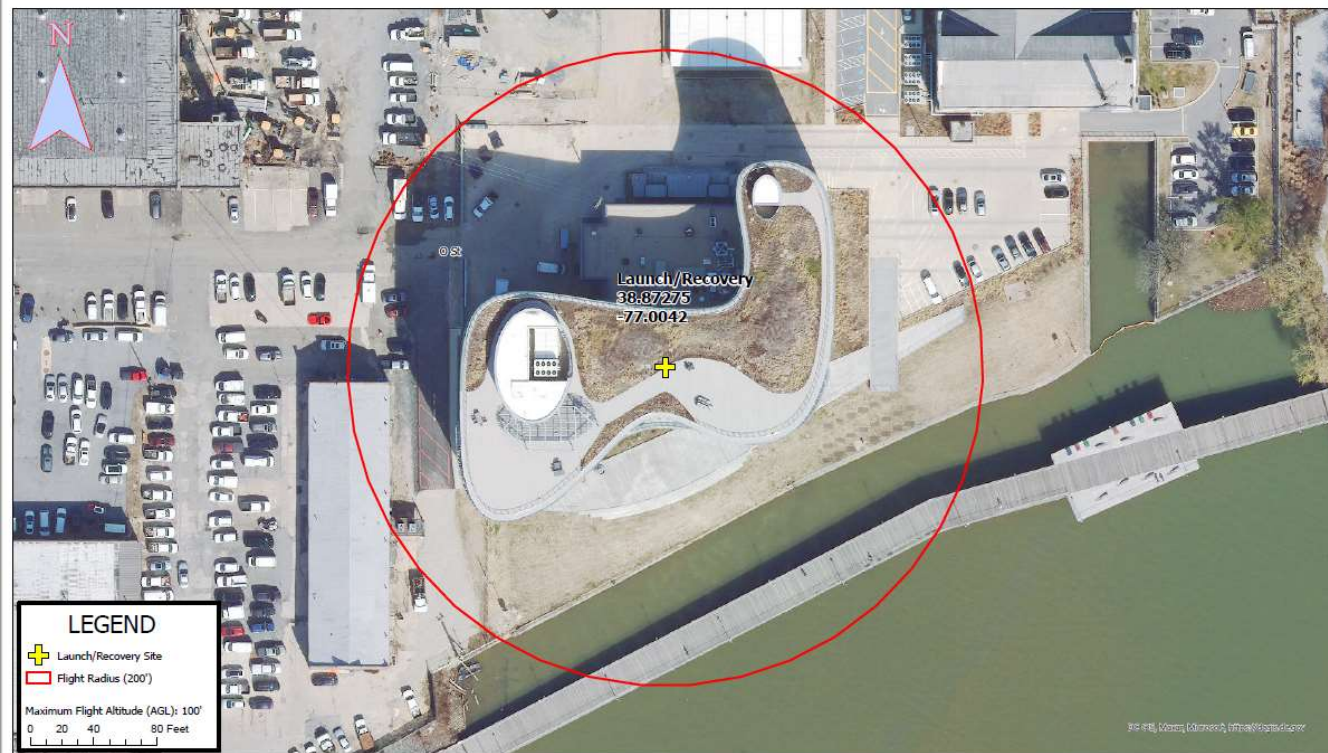
Develop the Authority into a High Reliability Organization



Accuracy of Inspections Increased

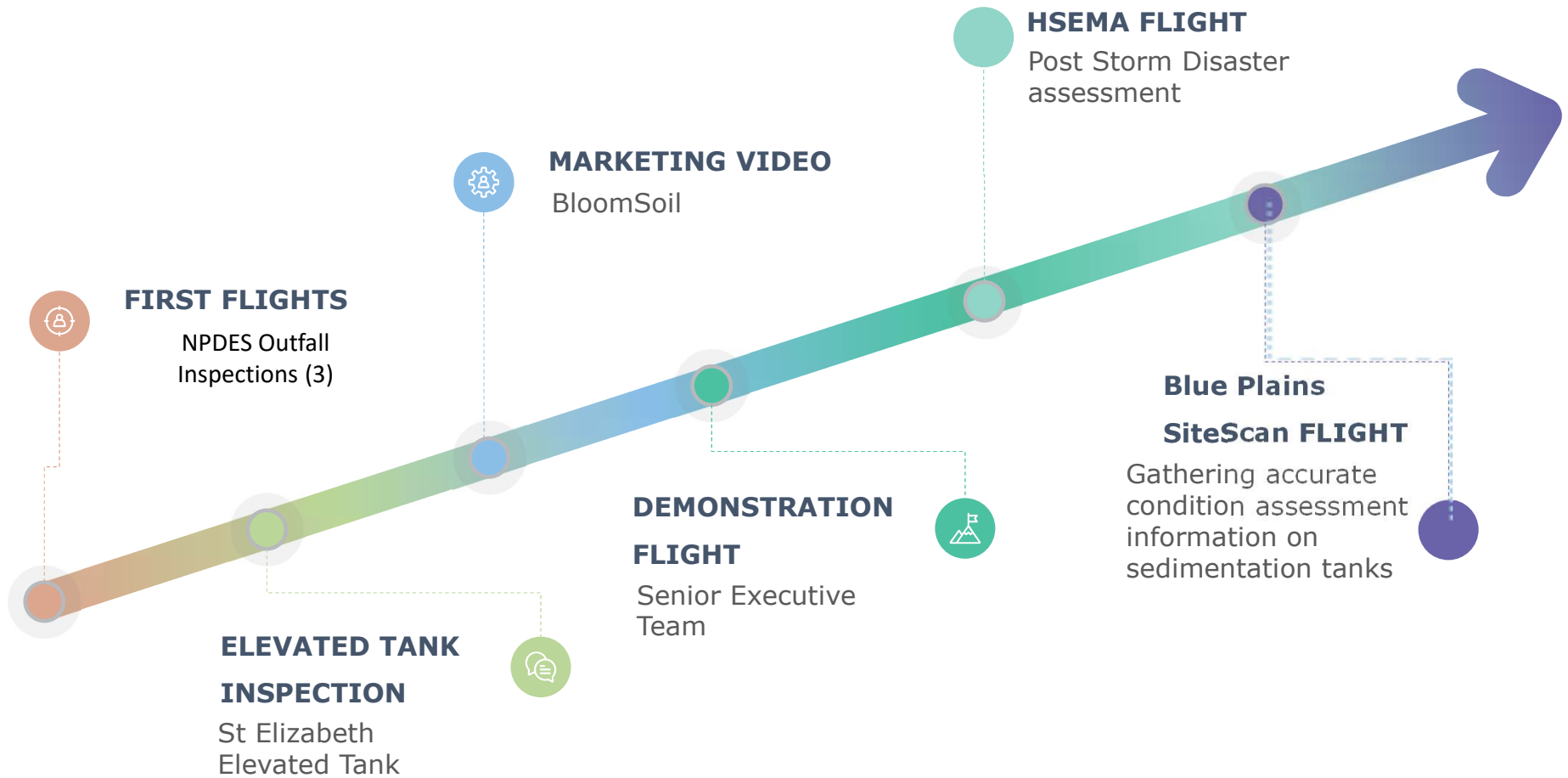
Frequency of Inspections Increased

Prompt response to Emergencies





Flight Operations Completed: First flight in May 2021 – Last Flight July 2023



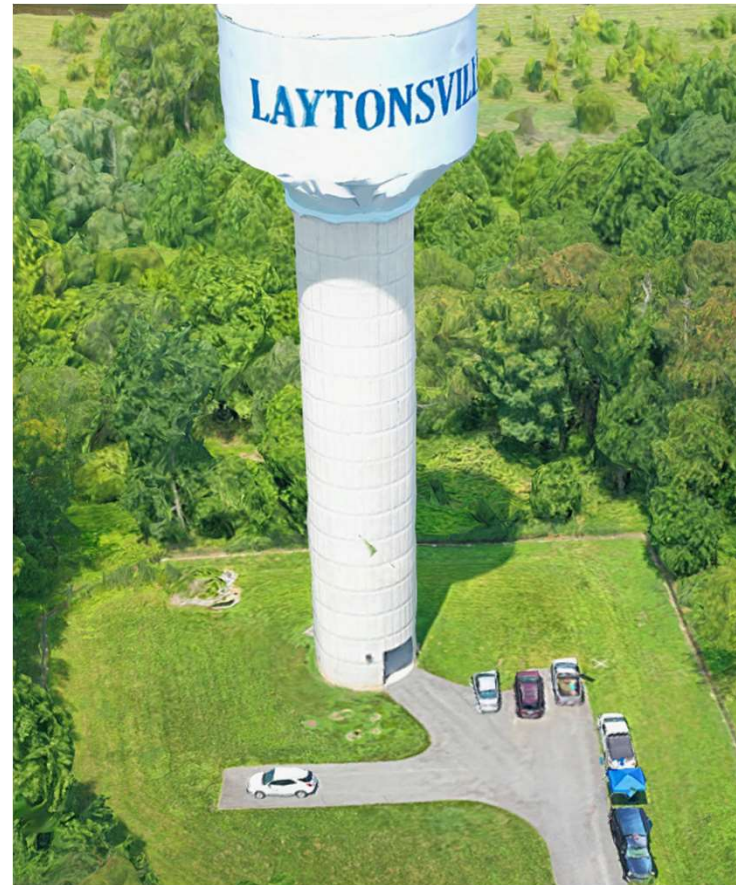




Current Proposed, and Potential Use Cases for UAS at DC Water

Use Case	Department	Primary Savings	Deployment time
NPDES outfalls	DPSO	Safety	scheduled
erosion damage/control (Watts Branch)	DPSO	Monetary	scheduled
disaster investigation	OEM	all three	a few hours
large diameter sewer inspection	DPSO	Monetary	a few hours
tower maintenance/inspection	Facilities	Safety	scheduled
elevated tanks	DWO	Safety	scheduled
clean rivers shaft/tunnel inspection	Clean Rivers	Monetary	a few hours
rooftops	Facilities	Monetary	scheduled
inflatable dam inspection	DPSO	Safety	a few hours
shafts to sewer (sediment control)	DPSO	Time	a few hours
wet well cleaning inspection	DPSO	Safety	a few hours
impervious area	IAB	Monetary	scheduled
screening removal inspection	DPSO	Time	a few hours
bridge mounted pipes	DWO	Safety	scheduled
regulator structure inspection	DPSO	Time	a few hours
perimeter fencing	Security	Safety	scheduled
post-contractor-operations inspection/verification	Facilities	Safety	scheduled
pump stations	DPSO	Time	a few hours

3D model rendered with multiple images of a WSSC tank. Uploaded and stitched together in a 3D format for use within ESRI GIS, specific application: SiteScan.





Post-Storm damage assessment flight requested by HSEMA Palisades neighborhood



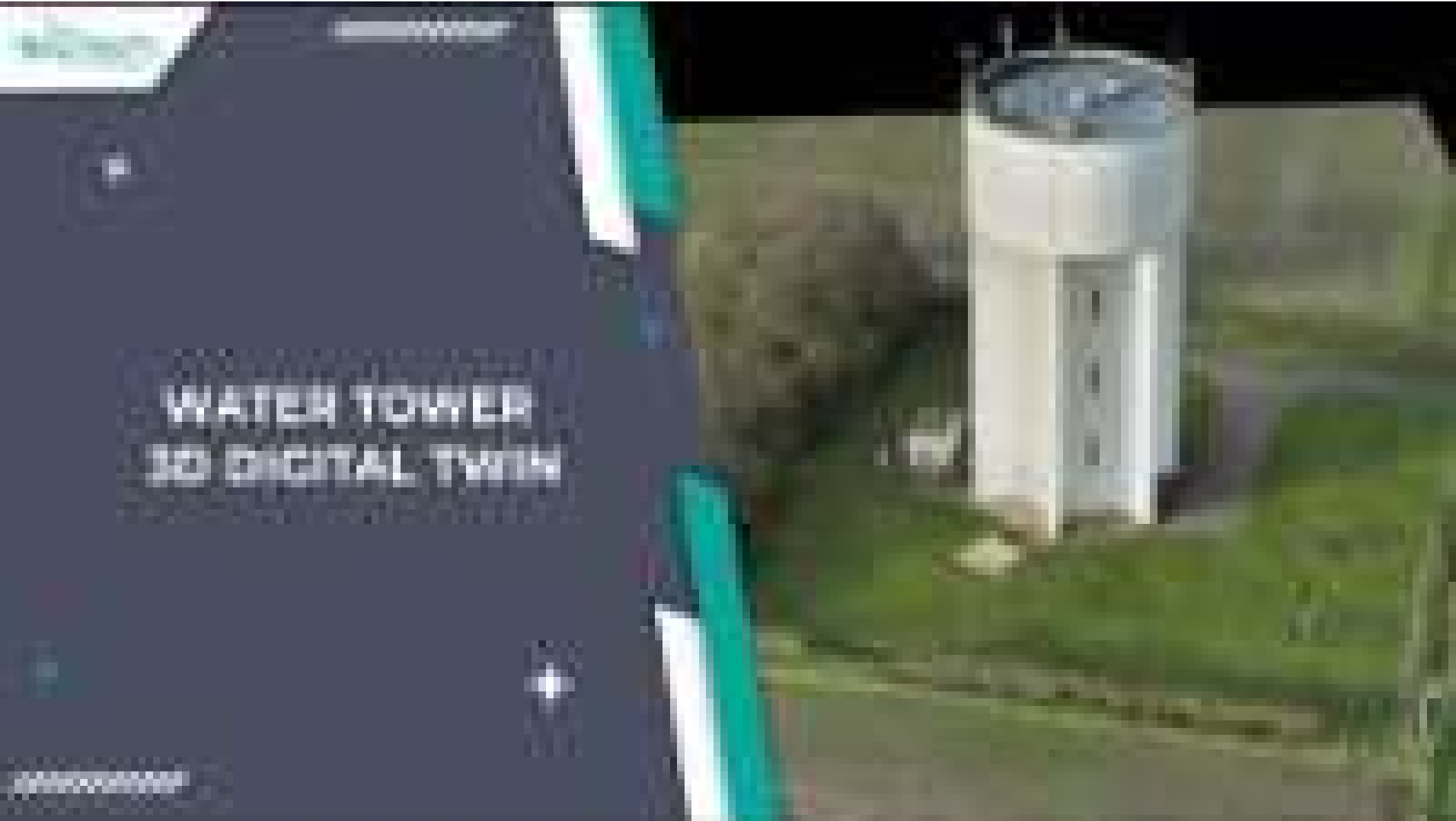
Tree damage to roofs,
sidewalks, roads, utility lines



Questions?







WATER TOWER
AND ELECTRICAL TOWER

© 2000

Action Items



Potomac River Tunnel Design-Build Contract Environmental Quality & Operations Committee September 21, 2023



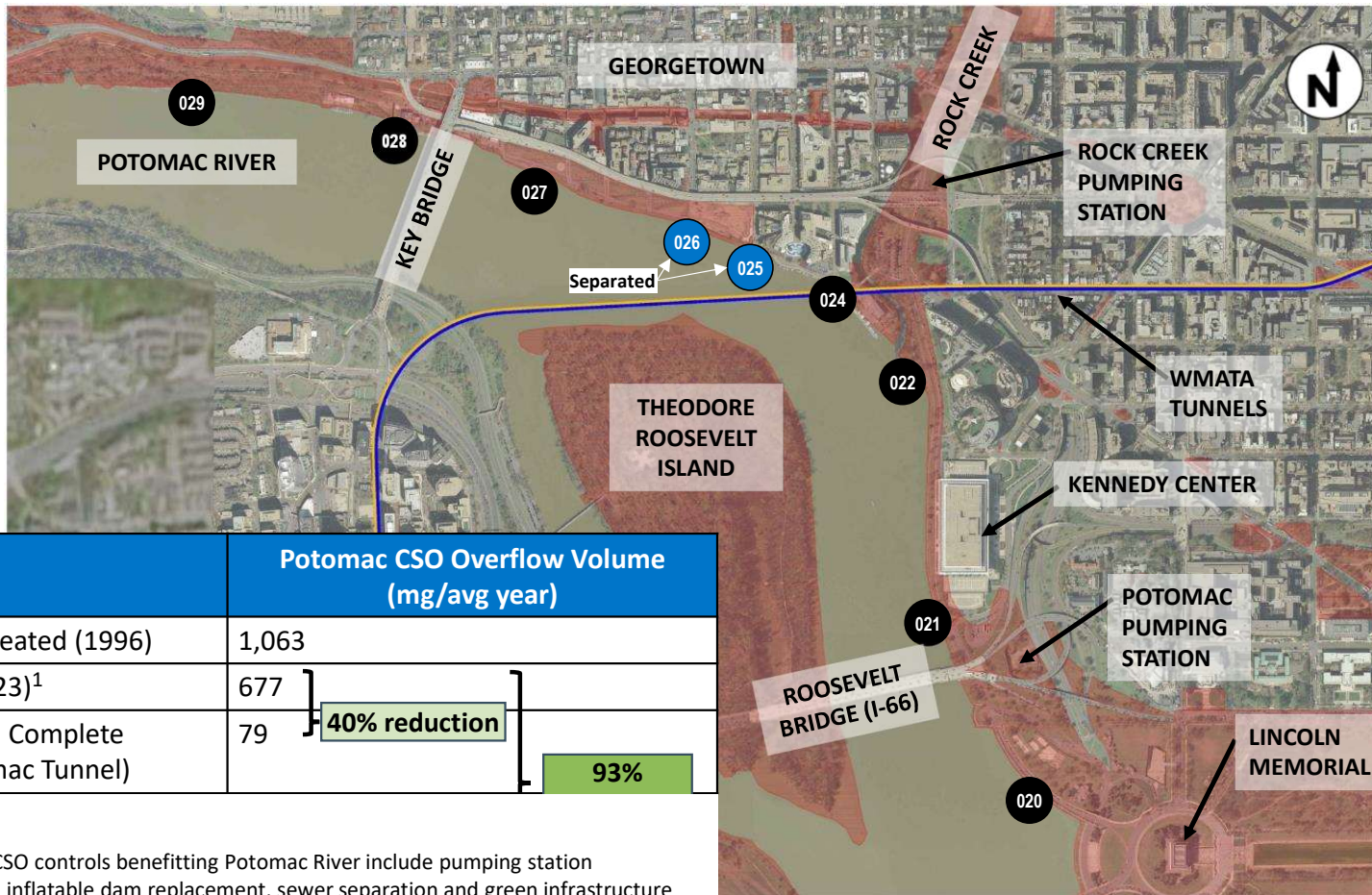
Matthew T. Brown, Chief Financial Officer and Executive Vice-President,
Finance, Procurement, and Compliance
Moussa Wone, Vice President, DC Water Clean Rivers
Reginald C. Scott, Manager, Capital Procurement, Procurement
Jamal Jones, Contract Compliance Specialist, Procurement



Moussa Wone, Vice President, Clean Rivers Project



Potomac Combined Sewer Overflow (CSO) Outfalls

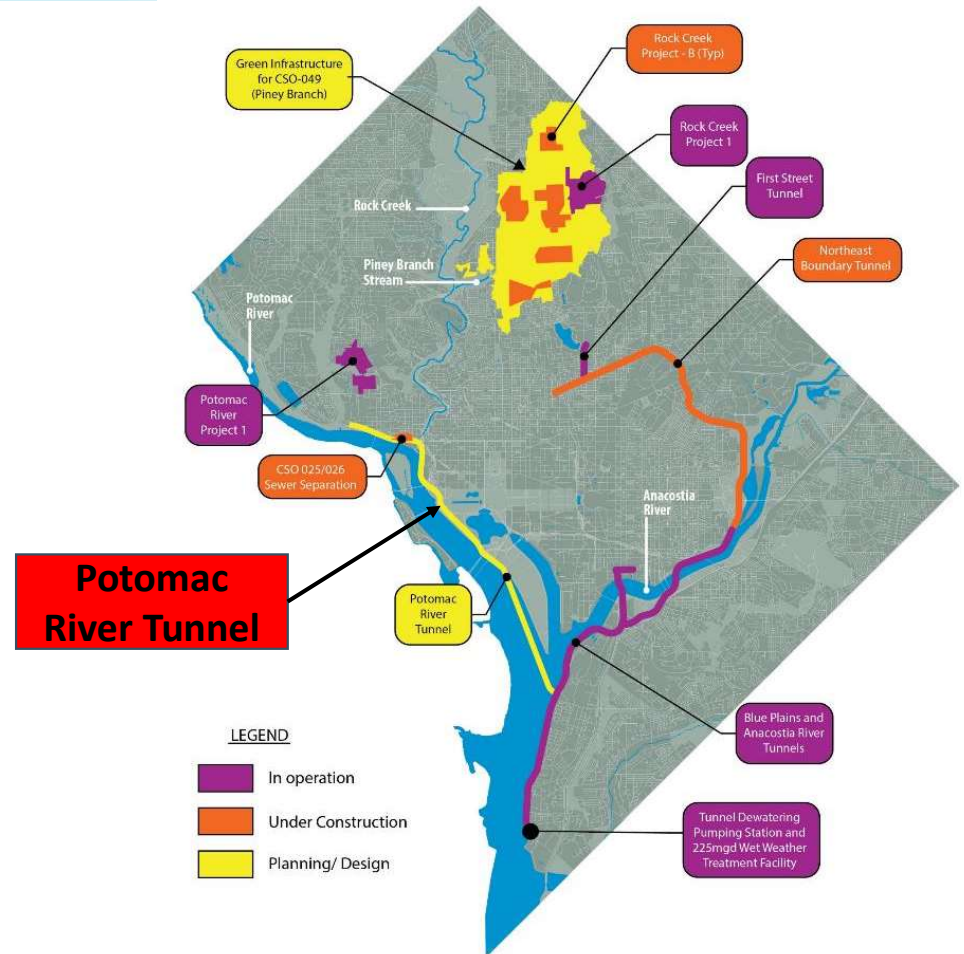


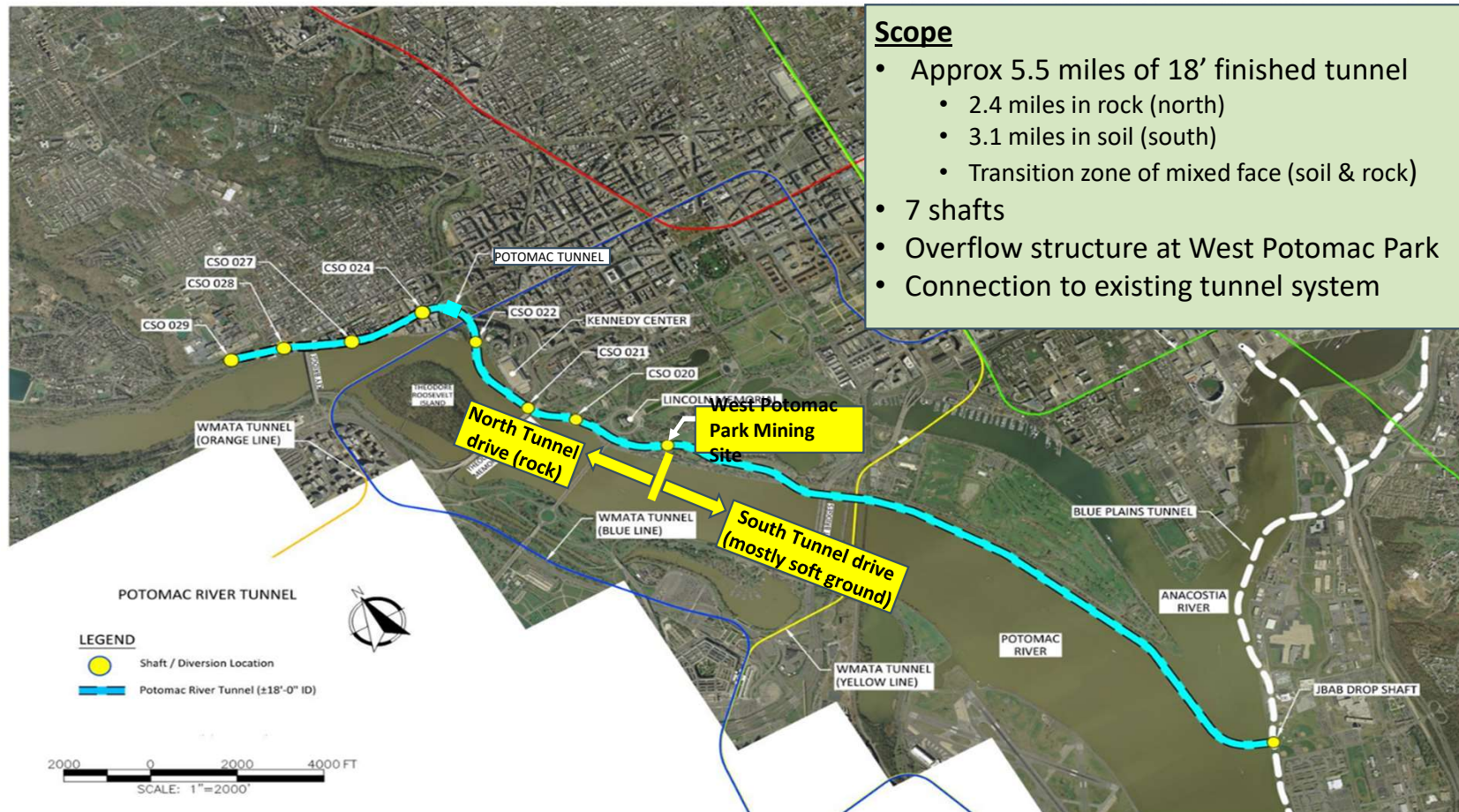
Condition	Potomac CSO Overflow Volume (mg/avg year)
DC Water created (1996)	1,063
Current (2023) ¹	677
Clean Rivers Complete (after Potomac Tunnel)	79
	<div style="border: 1px solid black; padding: 2px; display: inline-block;">40% reduction</div>
	<div style="border: 1px solid black; padding: 2px; display: inline-block; background-color: #90EE90;">93%</div>

Notes:

1. Completed CSO controls benefitting Potomac River include pumping station rehabilitations, inflatable dam replacement, sewer separation and green infrastructure

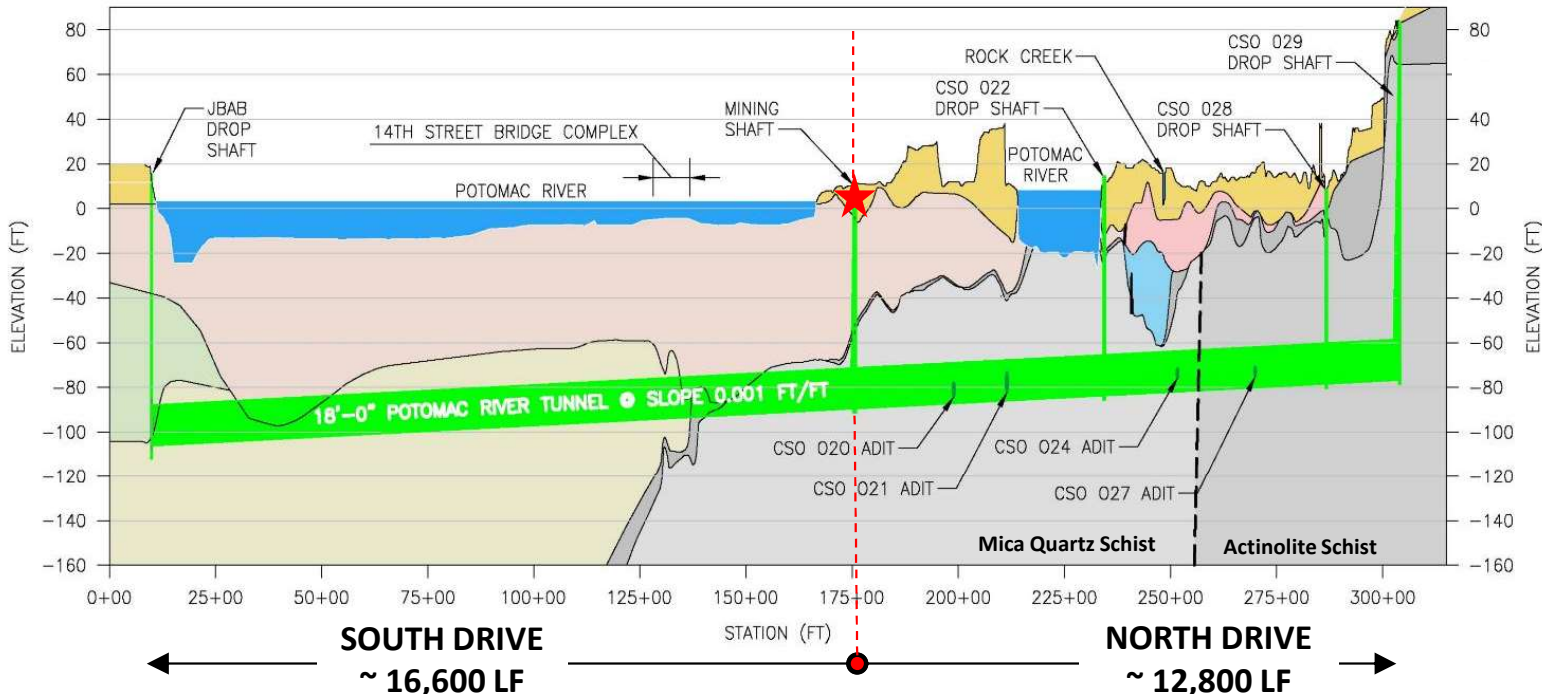
- Place in operation Potomac Tunnel by February 8, 2030
- Control CSOs 020, 021, 022, 024, 027, 028 and 029
- Connect tunnel by gravity to existing Anacostia Tunnel → eliminates need for new Tunnel Dewatering Pumping Station
- Construct 3 additional CSO warning lights on Potomac River (1 light exists now near Watergate)
- Minimum tunnel volume, diversion rates to tunnel and tunnel dewatering times are dictated in Consent Decree/NPDES Permit





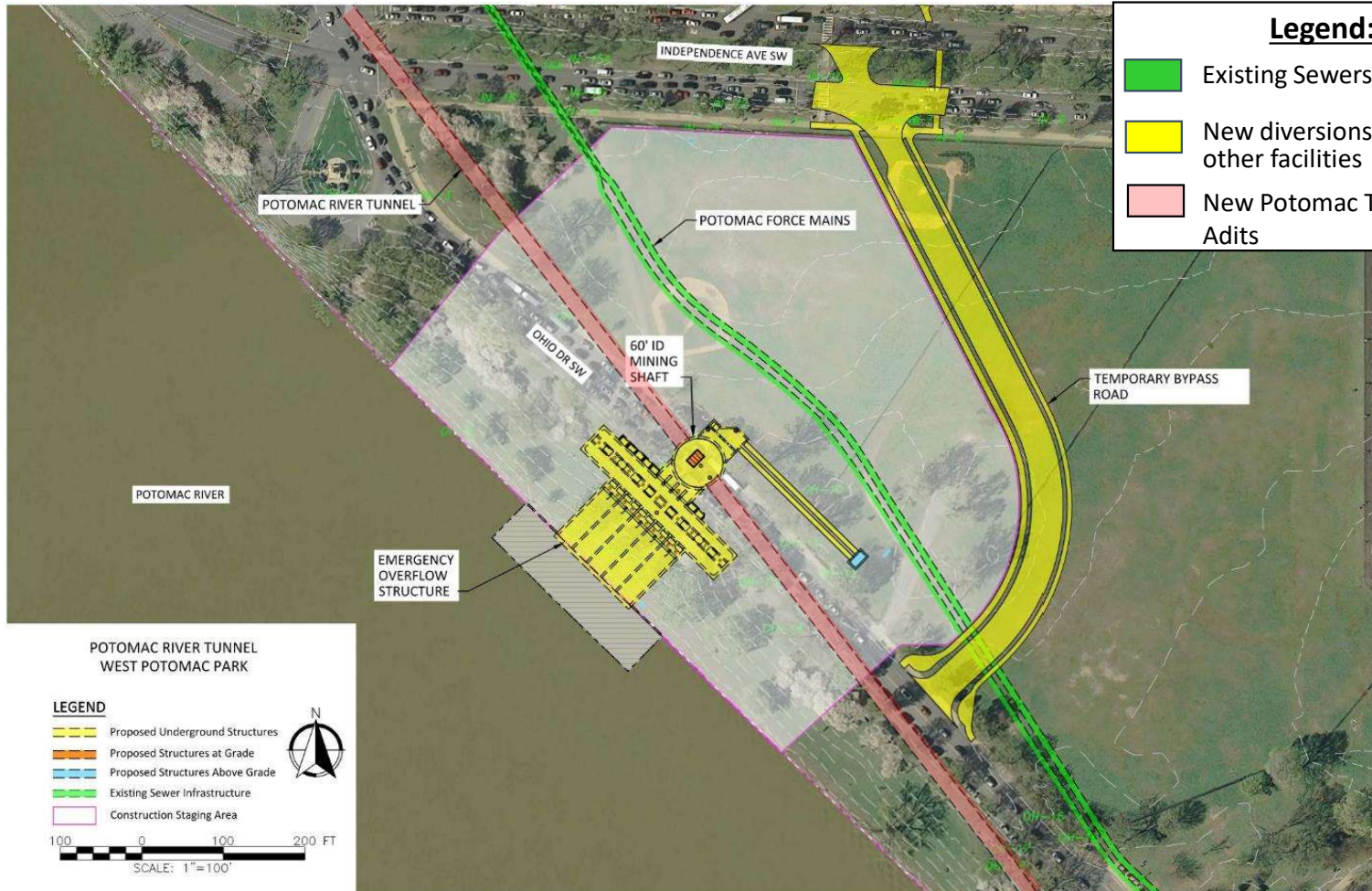
Scope

- Approx 5.5 miles of 18' finished tunnel
 - 2.4 miles in rock (north)
 - 3.1 miles in soil (south)
 - Transition zone of mixed face (soil & rock)
- 7 shafts
- Overflow structure at West Potomac Park
- Connection to existing tunnel system



GEOLOGY:

- | | | |
|----------------------------------|---|--------------------|
| Fill | Stiff silts/Over-consolidated clays (P/A) | Weathered rock |
| Alluvium A1 (fine grained) | Dense silty and clay sands (PTX) | Mica Quartz Schist |
| Alluvium A2 (coarse grained) | | Actinolite Schist |
| Alluvium A3 (gravel and cobbles) | | |





Facilities at Other Sites

Typical facilities



- Diversion chamber on existing CSO
- Approach channel
- Drop Shaft
- Adit to tunnel for off-line shaft
- Ventilation control facilities

Legend:

- Existing Sewers
- New diversions, shafts and other facilities
- New Potomac Tunnel & Adits





Measures Taken to Mitigate Costs

- Project developed based on lessons learned in prior tunnels
 - No odor control facilities – space left if needed in future
 - Risk register with risk sharing with design builder
 - DC Water relocated utilities in advance and contracted with PEPCO to deliver 13.2Kv power to operate TBM equipment
 - DC Water obtained most permits (NPS, CFA/NCPC/Army) to minimize risks
 - Incorporated detailed lessons learned from other tunnels
- Escalation addressed– RFP provides for compensation to Design-Builder if specific items escalate beyond baselines specified in RFP. DC Water pays for escalation only if it happens, thus excluding contingencies in the Lump Sum
 - Concrete, steel, fuel, electricity
 - Labor not included



Benefits of Procurement Approach: Design-Build with Collaboration

- Meets strict Consent Decree deadlines
- Allows contractor innovation
- Shortlisted teams assume portion of design responsibility
- Four technical collaboration meetings held with each team
 - Meetings are proprietary
 - 16+ hours of time with each team
 - Teams become familiar with contract and develop approaches to meet requirements, thus minimizing bid contingencies
 - Information exchange minimizing future contract disputes
 - Used successfully on prior tunnel procurements

**Rudy Gonzalez, Director of Procurement, Capital
Programs**

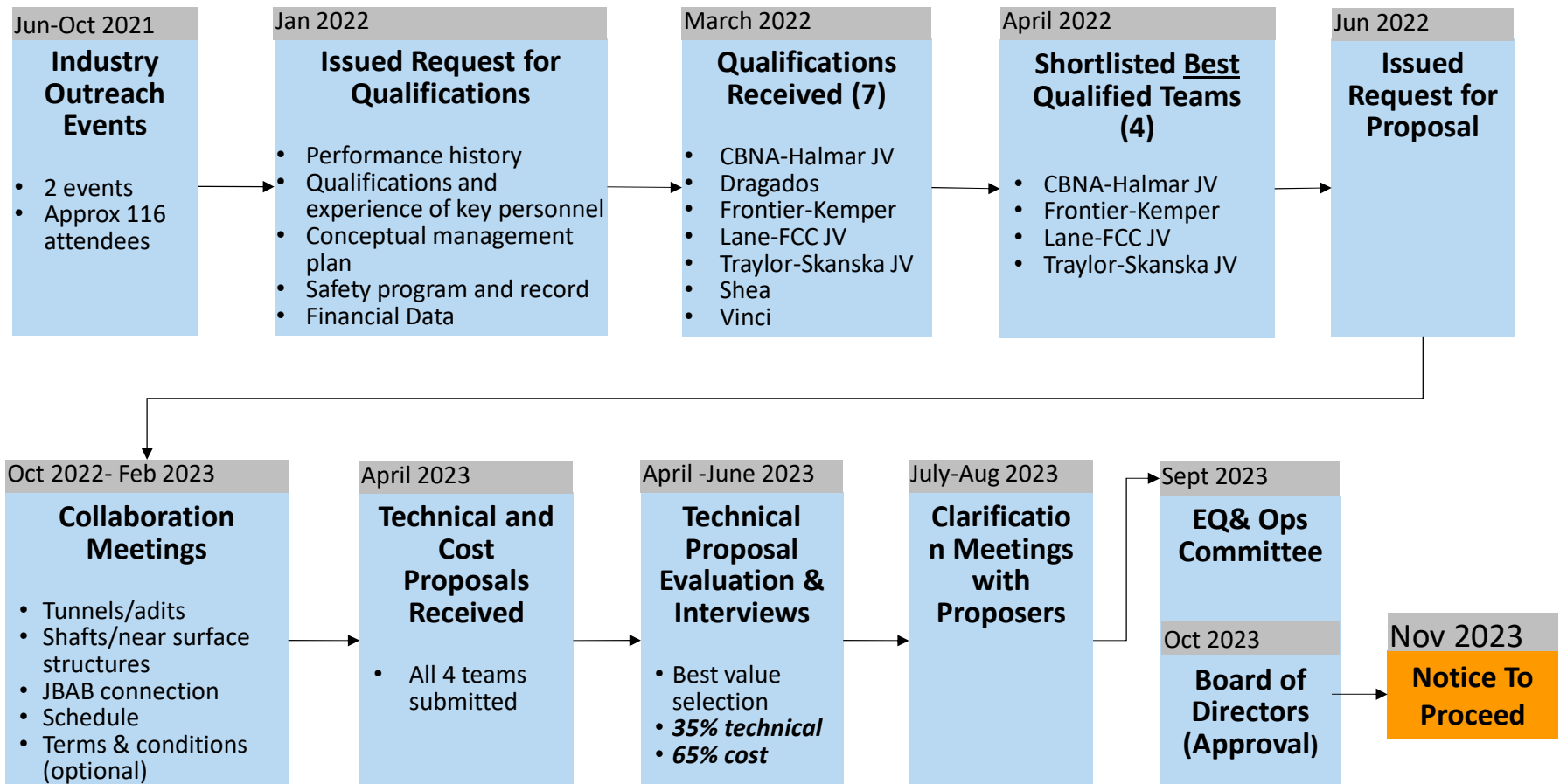
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Slide 12

LOO [@Rudy Gonzalez] - please check this title
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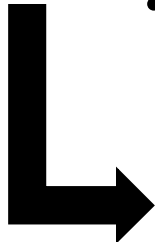
Procurement Process





- Technical Proposal Evaluation:
 - Project Management and Organization 30%
 - Design and Construction Plan 60%
 - DBE/WBE Business Development Plan, Local Hiring and Subcontracting Plan 10%
- Technical Proposal Score range (35-point scale)
 - Low 28.16
 - High 29.90
- CBNA-Halmar Clean Rivers JV received the 2nd highest technical score

- After Evaluation of Technical Proposals, Price Proposals were opened
- Bid price range (65-point scale)
 - Low: \$804,948,166.00
 - High \$1,045,748,800.00
- CBNA-Halmar Clean Rivers JV had lowest price proposal



CBNA-Halmar Clean Rivers JV had:

- **2nd highest technical score**
 - **Lowest price proposal**
- provided the best value per selection criteria**

Engineer's Estimate Range: \$610M to \$815 M

- | | |
|---|--|
| <ul style="list-style-type: none"> • Normal market conditions • 3% avg inflation over 7 years | <ul style="list-style-type: none"> • Uncertain market conditions • Pandemic/ supply chain • Uncertain inflation |
|---|--|



Clarification Meetings Held with All Teams after Technical Review and Opening Prices

- Confidential one-on-one meetings with each team to assess:
 - Are significant contingencies or risk money in bids that could be removed or re-allocated?
 - Are there scope items that could be adjusted to generate savings?
- Each Team reported that:
 - Significant risk money not in bids - collaboration, geotechnical baseline report and RFP removed this
 - Market conditions have resulted in significantly higher construction costs since 2020/2021.
 - TBM prices have doubled/tripled
 - Segment prices have doubled
 - General construction commodities increased by 40%
- Actions taken:
 - Minor scope adjustments were made based on discussions with Teams
 - CBNA price changed from \$804,948,166.00 to \$803,455,177.00 (reduction of \$1,492,989.00)

Conclusion: bids reflect market conditions to construct project



Potential for Additional Contingencies due to Uncertainties

- During bid evaluation, DC Water investigated additional risk factors that could result in additional costs
 - Cost Items since last addendum
 - DDOT protection of Whitehurst – addition requirements, stricter strict movement limits
 - DDOT signalization at Independence Ave - revised signalization approach and plans
 - National Park Service Seawall Reconstruction Project – all along West Potomac park (mining site)
 - Replacement of Long Bridge and approaches (Railroad Bridge) - Potomac Tunnel will cross new bridge, and staging areas for bridge will interface with DCW project
 - Bid evaluation identified increased risk factors
 - Commodity escalation beyond anticipated
 - Supply chain disruption, especially for TBM and freight uncertainties
 - Shortages of craft labor
 - Increased/ unpredictable rain events impacting ability to work in Blue Plains Tunnel when placing tunnel in service
- After discussion with the proposers, DC Water added \$16.2 million project risk allowance. As in past contracts, the use of the allowance item remains subject to the General Conditions and *is controlled by DC Water.*

- It is the Contracting Officer's recommendation that CBNA-Halmar Clean Rivers JV be awarded the Design-Build contract in the amount of:

\$ 803,455,177.00 (Price Proposal, after scope reduction)

\$ 16,200,000.00 (Risk Allowance)

\$ 819,655,177.00 **(Award Amount)**

- CBNA and Halmar are new contractors to DC Water, and they are recommended for an award of largest contract in DC Water history.
- Fair, transparent, and competitive procurement process proved that DC Water is open for business.

Jamal Jones, Senior Compliance Officer, Contract Compliance



Certified Business Utilization Approach

- Design Services

CBNA-Halmar's proposed plan meets the 28% DBE /4% WBE utilization goals for the Design Phase of the project and anticipates exceeding the goals as the project progresses.

- Construction Services

CBNA-Halmar's proposed approach will meet or exceed the 32% DBE/ 6% WBE utilization goals established for the construction phase. As part of their approach, DC Water and its strategic partners will be fully engaged in the identification of and outreach to the certified business community.

- Good Faith Efforts

In support of meeting the certified business utilization goals established for this project, CBNA-Halmar was required to exercise mandatory "Good Faith Efforts" in outreach to the certified business community.

As demonstration of their Good Faith Efforts, CBNA – Halmar is doing the following:

- Implementing Mentor-Protégé Agreements with DBE firms (2 identified so far: Wave Civil LLC & Subsurface & Tunnel Engineering LLC)
- Partnering with at least four certified firms new to DC Water.
- Conducting "Opportunity Fairs" for the certified business community at different phases during the project.



Commitment to Local Hiring

- Apprenticeship Programs

CBNA-Halmar and each contractor with a contract valued at \$500k or greater will register an apprenticeship program with DOES and meet their respective apprentice ratios.

- Local residents will receive preference for all new apprenticeship positions.

- Local Hiring

CBNA-Halmar agrees to take proactive steps to meet the 75% local hiring goal for new jobs created on this project. These steps include working with DC Water Works and its strategic partners to identify and engage local job seekers.



Matthew T. Brown, CFO and EVP, Finance, Procurement, and Compliance



Budget Impact – Potomac River Tunnel Factsheet

- An additional \$215 million is needed to fund the proposed contract
 - The Board-approved budget for the Clean Rivers Program is \$962 million in the Ten-Year CIP
 - The proposed award for the Potomac River Tunnel Design-Build Contract is \$819.7 million, higher than what was anticipated in the CIP
 - To award the contract, there must be sufficient budget authority in the CIP
- Management has identified four projects in the Water and Sewer Service areas with sufficient funding within Board-adopted ten-year CIP to be reprogrammed to cover the projected shortfall of \$215 million
 - The projects are the Local Sewer Rehabilitation 9 (budgeted at \$56.5 million) and Small Diameter Water Main Rehabilitation #23 – 25 (budgeted at \$175.5 million)
 - The projects that were defunded to move the Clean Rivers contract forward will be considered and prioritized as part of the upcoming FY 2025 budget cycle
 - Re-incorporating these projects into the CIP will increase forecasted customer rates beyond what is included in the Board-approved Financial Plan



Rate Impact – Potomac River Tunnel Factsheet

- With the reprogramming, overall there is sufficient budget in the Clean Rivers program to award the proposed contract
 - The Clean Rivers program is funded with the Clean Rivers Impervious Surface Area Charge (CRIAC) and the sewer charge
 - As a result of this action, the CRIAC will be higher in the next version of the Financial Plan, and the sewer rate will be lower
 - The average annual increase in CRIAC will be approximately 7.05 percent
 - The Board-approved CRIAC increased from \$23.03 per ERU in FY 2025 to \$31.32 in FY 2032, whereas for the Current Estimate, the CRIAC will increase from \$23.36 per ERU in FY 2025 to \$34.37 in FY 2032
- No Board-action is required to change both the CRIAC fees and Water & Sewer Rates today
- The estimated rate and fees impacts will be included in the next financial plan for consideration and adoption by the full Board

Action Items



Master Service Agreement Contract Amendment LFDC
Environmental Quality & Operations Committee
September 21, 2023



William Elledge, Director, Engineering and Technical Sciences



Fact Sheet to Increase LFDC MSA Contract Limit

- Board previously approved Master Service Agreement (MSA) for LFDC for \$130M
- LFDC is accelerating & MSA program is key component
- Need additional \$70M

Contract No.	Contract Value	Cumulative Contract Value	Bid Advertisement Date	Bid Due Date
LSR Contract 7	\$9,292,335	\$9,292,335	June 2023	June 2023
LSR Contract 8	\$9,067,565	\$18,359,900	June 2023	June 2023
LSR Contract 9	\$1,995,008	\$20,354,908	June 2023	June 2023
LSR Contract 10	\$1,165,316	\$21,520,224	June 2023	June 2023
LSR Contract 11	\$6,000,000	\$27,520,224	September 2023	October 2023
LSR Contract 12	\$5,000,000	\$32,520,224	September 2023	October 2023
LSR Contract 15	\$60,000,000	\$92,520,224	October 2023	October 2023
LSR Contract 16	\$45,000,000	\$137,520,224	October 2023	October 2023
LSR Contract 17	\$5,000,000	\$142,520,224	October 2023	October 2023
LSR Contract 18	\$57,000,000	\$199,520,224	May 2024	June 2024

- Will open for additional prequalified contractors

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

DESIGN-BUILD CONTRACT:

**Potomac River Tunnel Contract B – Tunnel System Construction
(Joint Use)**

Approval to execute a design-build contract for \$ 819,655,177.00

CONTRACTOR/SUB/VENDOR INFORMATION

<p>PRIME: CBNA-Halmar Clean Rivers Joint Venture One Biscayne Tower 2 South Biscayne Boulevard Miami, FL 33131</p>	<p style="text-align: center;">*PARTICIPATION</p> <p>Design Phase: 28.0% DBE 4.0% WBE (See Attachment A for list of Certified Design Firms)</p> <p>**Construction Phase (Planned): 32% DBE 6% WBE</p>
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*Participation does not include the "excluded" portions of the project. See Attachment B for a list of excluded items.

**Certified DBE/WBE Participation will be finalized as the Construction Phase planning is complete. The Prime is committed to working with DC Water to meet (or exceed) the utilization goals for the Construction Phase.

***The Prime has also committed to establishing two Mentor Protégé agreements with certified firms.

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed:	\$ 819,655,177.00
Contract Time:	2,230 Days (6 Years, 2 Months)
Anticipated Contract Start Date (NTP):	11-09-2023
Anticipated Contract Completion Date:	12-17-2029
Proposal Due Date:	04-28-2023
Number of Firms Submitting Qualifications:	7
Number of Firms Shortlisted:	4

Purpose of the Contract:

Provide design and construction services for Potomac River Tunnel for Clean Rivers Project. This work is required by a Consent Decree.

Contract Scope:

- Design and construct approximately 29,400 feet of 18-foot minimum inside diameter tunnel with precast concrete liner from mining site at West Potomac Park at Ohio Drive, SW
- Construct seven shafts and diversion chambers to control CSOs 020, 021, 022, 024, 027, 028 and 029 to the Potomac River
- Two (2) emergency overflow structures to the Potomac River
- Construct appurtenant work including underground connections, adits, ventilation control facilities, electrical, instrumentation, landscaping and commissioning of the tunnel.

Federal Grant Status:

- The construction contract may be funded in part by prior Congressional appropriations for CSO projects.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	Award Based On:	Best value
Commodity:	Design and Construction	Contract Number:	200100
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Clean Rivers
Service Area:	Combined Sewer Overflow	Department Head:	Moussa Wone
Project:	CZ		

***ESTIMATED USER SHARE INFORMATION**

CZ – Allocation (LTCP – Potomac River Tunnel)

User	Share %	Dollar Amount
District of Columbia	92.90%	\$657,172,021.21
Federal Funds	0.00%	\$ 0.00
Washington Suburban Sanitary Commission	5.54%	\$ 39,189,806.22
Fairfax County	1.01%	\$ 7,144,711.96
Loudoun County & Potomac Interceptor	0.55%	\$ 3,890,684.73
Total Estimated Dollar Amount	100.00%	\$707,397,224.12

CZ – Allocation (CAPM - Potomac River Tunnel)

User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 112,257,952.88
Federal Funds	0.00%	\$ 0.00
Washington Suburban Sanitary Commission	0.00%	\$ 0.00
Fairfax County	0.00%	\$ 0.00
Loudoun County & Potomac Interceptor	0.00%	\$ 0.00
Total Estimated Dollar Amount	100.00%	\$ 112,257,952.88

Total Combined Allocation

User	Share %	Dollar Amount
District of Columbia	93.87%	\$769,429,974.09
Federal Funds ****	0.00%	\$ 0.00
Washington Suburban Sanitary Commission	4.78%	\$ 39,189,806.22
Fairfax County	0.87%	\$ 7,144,711.96
Loudoun County & Potomac Interceptor	0.48%	\$ 3,890,684.73
Total Estimated Dollar Amount	100.00%	\$819,655,177.00

****Subject to future Federal appropriations. If future Congressional appropriation is received, DC share will decrease.

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 Jeffrey F. Thompson / Date
 Chief Operating Officer, EVP

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 Matthew T. Brown / Date
 CFO and EVP
 Finance, Procurement and Compliance Cluster

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 Dan Bae / Date
 VP of Procurement

 David L. Gadis / Date
 CEO and General Manager

Design-Build Contract 200100
Potomac River Tunnel Contract B – Tunnel System Construction
ATTACHMENT A
Subcontractor Listing and Ineligible category Amounts

Firm	Certification	Participation
Design Consultants		
***Wave Civil Alexandria, VA, 22312	DBE	4.30%
Precision Systems, Inc Washington, DC, 20003	DBE	3.11%
ASTUTE Engineering Vienna, VA, 22182	DBE	1.03%
***Subsurface & Tunnel Engineering, LLC Gaithersburg, MD, 20878	DBE	3.70%
Kilduff Underground Engineering Denver, CO, 80202	DBE	1.04%
Somat Engineering Washington, DC, 20003	DBE	2.50%
FMC Associates Washington, DC 20011	DBE	2.50%
Dulles Engineering Sterling, VA 20166	DBE	2.53%
Other Identified Scopes of Work are being negotiated	DBE	7.29%
Subtotal DBE		28.00%
Rhodeside and Harwell Richmond, VA, 23219	WBE	1.40%
Page Ayres Cowley Architecture New York, NY, 10016	WBE	0.40%
Bay Associates Environmental	WBE	2.00%
Moonin Associates Las Vegas, NV, 89143	WBE	0.20%
Subtotal WBE		4.0%
**DBE/WBE Construction Contractors/Suppliers firm identification in Progress.		

CBNA-Halmar has committed to meeting or exceeding the DBE/WBE Fair Share Objectives as final designs are completed and construction needs are identified. CBNA-Halmar will partner with DC Water to identify certified businesses that are eligible and interested in bidding on specific portions of work. This partnership will achieve the DBE/WBE participation objectives for the Potomac River Tunnel Contract B program.

The following table provides a summary of several major project items that are excluded from the DBE/WBE Fair Share Objectives at this time.

Items Excluded from Fair Share Objectives

Description	Cost	Explanation
Project Allowance, escalation, Tier 2 and 2X Allowance	\$ 54,550,000	Need for and exact scope of work unknown at this time. As the scope of work is better defined, additional subcontractors and suppliers will be solicited, and efforts will be made to utilize D/WBE firms.
Tunnel Boring Machines Mobilization (2 machines)	\$ 37,000,000	Exempt since there are no D/WBE Tunnel Boring Machine manufacturers
Builder's Risk, Pollution Liability Insurance	\$ 10,589,100	DC Water may provide coverage via OCIP program, pending evaluation by Risk Department
Utility Agency Allowance, Pepco Temporary and Permanent Services, electrical switchgear	\$ 7,000,000	Allowances to be paid directly to utility agencies to complete work
Community Impact Mitigation, Commuter Outreach media purchases	\$ 4,400,000	Need for and exact scope of work unknown at this time. As the scope of work is better defined, additional subcontractors and suppliers will be solicited and efforts will be made to utilize D/WBE firms.
Other Miscellaneous Items such as Safety Training Allowance	\$ 4,140,000	
Permit and Police Detail Fees	\$ 2,620,000	Fees are paid directly to District and other regulatory agencies
Total	\$ 120,299,100	

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

**GOODS AND SERVICES CONTRACT AWARD
SMALL CONSTRUCTION
(Joint Use Indirect)**

Approval to award and fund a contract for Small Construction Services in the amount of \$9,631,851.00 for a 2-year base period and three option years.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Eastern Contractors Corporation 3011 Sutton Gate Dr. Site 250 Suwanee, GA. 30024	SUBS: Aquia Inc.	PARTICIPATION: DBE 33%
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DESCRIPTION AND PURPOSE

Base Period Contract Value:	\$3,653,000.00
Base Period Contract Date:	11-01-2023 – 10-31-2025
Number of Option Years:	3
Total Option Year 1-3 Value:	\$5,978,851.00
Option Year 1-3 Dates:	11-01-2025 - 10-31-2028
Proposal Closing Date:	03-17-2023
Total Number of Proposals:	10
Proposal Price Range	\$14,815,450.00 – 19,245,395.00

Purpose of the Contract:

Department of Facilities requires the services of a qualified general contractor, licensed and bonded in the Washington, DC metropolitan area to provide general construction work.

Contract Scope:

Facilities Service has a need for a contractor to furnish all labor, miscellaneous parts, equipment and tools to perform the work, including but not limited to; rough carpentry, finished carpentry, partition installation and removal, roof repairs (torch down, rubber membrane, slate, green roofs, slag, corrugated metal, and various roof systems), dry wall systems, toilet and bath accessories, doors and frames, (wood, plastic, metal, and hollow core), cast and place concrete, HVAC, electrical applications and repairs, demolition as applicable to the project, plumbing upgrades, painting, fall protection, ceiling and floor tiles, site design development documents, scaled site and construction drawings, and project phasing schedule at all of DC Water facilities as needed.

Supplier Selection:

Ten suppliers responded to an RFP for Small Construction services. Eastern Contractors Corporation is recommended for this contract award because they were rated overall best on the evaluation criteria of qualifications, experience, technical approach, and price.

Each option year will be awarded based on requirements, availability of funds and performance.

PROCUREMENT INFORMATION

Contract Type:	Good and Services	Award Based On:	Highest Ratings/Best Value
Commodity:	Construction	Contract Number:	10403
Contractor Market:	Open Market with DBE Goal		

BUDGET INFORMATION

Funding:	Capital Equipment	Department:	Facility
Project Area:	DC Water Wide	Department Head:	Brent F. Christ

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	71.19%	\$6,281,699.53
Washington Suburban Sanitary Commission	21.21%	\$1,871,538.80
Fairfax County	4.86%	\$428,839.16
Loudoun Water	2.38%	\$210,007.65
Other (PI)	0.36%	\$31,765.86
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$8,823,851.00

BUDGET INFORMATION

Funding:	Capital	Department:	Facility
Project Area:	DC Water Wide	Department Head:	Brent F. Christ
Project:	RV, LS		

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	85.58%	\$691,486.40
Washington Suburban Sanitary Commission	10.22%	\$82,577.60
Fairfax County	2.31%	\$18,664.80
Loudoun Water	1.09%	\$8,807.20
Other (PI)	0.80%	\$6,464.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$808,000.00

 / 09/11/2023
 Maureen Holman Date
 VP of Shared Services

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 ou=Procurement, cn=Joel Grosser,
 email=Joel.Grosser@dcwater.com
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 Director of Procurement / 09/12/2023
 For Dan Bae Date
 VP of Procurement

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 Matthew T. Brown
 Date: 2023.09.14 17:34:00
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 Matthew T. Brown Date
 CFO and EVP of Finance, Procurement
 and Compliance

David L. Gadis /
 CEO and General Manager Date

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

**GOODS AND SERVICES CONTRACT OPTION YEAR
FERRIC CHLORIDE
(Joint Use)**

This contract action is to add \$5,500,000.00 in funds to option year 2.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Carter & Carter Enterprises Inc. 212 Van Buren Street, NW Washington, D.C. 20012 LSBE	SUBS: N/A	PARTICIPATION: 100%
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DESCRIPTION AND PURPOSE

Original Contract Value:	\$4,000,000.00
Original Contract Dates:	08-01-2021—07-31-2022
Option Year 1 – 2 Value:	\$8,550,000.00
Option Year 1 – 2 Dates:	08-01-2022—07-31-2024
Option Year 2 Additional Funding:	\$5,500,000.00
Option Year 2 Dates:	11-01-2023—07-31-2024

Purpose of the Contract:

This contract is to supply and deliver liquid ferric chloride to DC Water’s Blue Plains Advanced Wastewater Treatment Facility. Ferric chloride is used in the wastewater treatment process to remove phosphorous, suspended solids, and odor-causing compounds. All these functions are needed for DC Water to comply with its water discharge permits.

Contract Scope:

To ensure supply security, ferric chloride requirements were awarded to two companies with independent supply chains: Carter & Carter (C&C) and PVS Technologies. In option year 2, ferric chloride pricing began increasing due to higher costs and lesser availability of its raw materials. The accounts share is modified to lower the cost impact on DC Water yet still maintain supply security.

Spending Previous Year:

Cumulative Contract Value:	08-01-2021 to 07-31-2024: \$12,550,000.00
Cumulative Contract Spending:	08-01-2021 to 08-01-2023: \$10,055,049.00

Contractor’s Past Performance:

According to the COTR, the Contractor’s quality of product and services, timeliness of deliverables; conformance to DC Water’s policies, procedures and contract terms; and invoicing all meet expectations and requirements.

PROCUREMENT INFORMATION

Contract Type:	Good and Services	Award Based On:	Best Value
Commodity:	Ferric Chloride	Contract Number:	10079
Contractor Market:	Open Market with goals for DBE and WBE Participation		

BUDGET INFORMATION

Funding:	Operating	Department:	Wastewater Treatment
Project Area:	Blue Plains	Department Head:	Nicholas Passarelli

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	43.08%	\$2,369,400.00
Washington Suburban Sanitary Commission	41.90%	\$2,304,500.00
Fairfax County	9.60%	\$528,000.00
Loudoun Water	4.71%	\$259,050.00
Other (PI)	0.71%	\$39,050.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$5,500,000.00


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 Jeffrey F. Thompson Date
 Chief Operating Officer, EVP

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 ou=Procurement, cn=Joel Grosser,
 email=Joel.Grosser@dcwater.com
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 Director of Procurement / 09/11/2023
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 Dan Bae Date
 VP of Procurement

For

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 Matthew T. Brown
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Matthew T. Brown Date
 CFO and EVP
 Finance, Procurement and Compliance

_____ /
 David L. Gadis Date
 CEO and General Manager

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

GOODS AND SERVICES CONTRACT AWARD

PROTECTIVE SERVICES

(Joint Use Indirect)

Approval to award and fund a contract to provide security systems services in the amount of \$34,500,000.00 for the three-year base and two option years.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Universal Protection Services (AKA, Allied Universal) 1551 N. Tustin Avenue Suite 650 Santa Ana, CA 92705	SUBS: Watkins Security (DBE)	PARTICIPATION: DBE 25%
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DESCRIPTION AND PURPOSE

Base Period Contract Value:	\$20,000,000.00
Base Period Contract Date:	11-01-2023 – 10-31-2026
Number of Option Years:	2
Total Option Year 1-2 Value:	\$14,500,000.00
Proposal Closing Date:	04-21-2023
Total Number of Proposals:	8
Proposal Price Range	\$19,500,000.00 - \$28,808,000.00

Purpose of the Contract:

DC Water requires a qualified contractor to provide protective services for all of DC Water's facilities and personnel.

Contract Scope:

DC Water's Department of Security requires a competent and reliable security firm that will provide trained and reliable Armed Special Police Officers (SPO) for the protection of DC Water's property and personnel. That including, but not limited to, the prevention and deterrence of theft, vandalism, fire and terrorist aggression, special events at HQO and monitoring and or the operation of technical security equipment at various locations.

Supplier Selection:

This was an open market solicitation. Twelve suppliers were invited to participate we received eight responses. Universal Protection is recommended for this contract award because they were the highest rated supplier on the evaluation criteria of qualifications, experience, technical approach, and price.

Each option year will be awarded based on requirements, availability of funds and performance.

Universal Protection is the incumbent. They have proven success and expertise in performing the requirements set forth in the scope of work. The COTR is satisfied with Universal Protection's performance.

PROCUREMENT INFORMATION

Contract Type:	Good and Services	Award Based On:	Highest Ratings
Commodity:	Security	Contract Number:	10396
Contractor Market:	Open Market with DBE Goal		

BUDGET INFORMATION

Funding:	Operating	Department:	Security
Project Area:	DC Water Wide	Department Head:	Ivelisse Cassas

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	71.19%	\$24,560,550.00
Washington Suburban Sanitary Commission	21.21%	\$7,317,450.00
Fairfax County	4.86%	\$1,676,700.00
Loudoun Water	2.38%	\$821,100.00
Other (PI)	0.36%	\$124,200.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$34,500,000.00

 / 09/01/2023
 Maureen Holman Date
 VP of Shared Services

 Digitally signed by Dan Bae
 DN: CN=US, E=dan.bae@dowater.com,
 O=District of Columbia Water and Sewer
 Authority, OU=VP of Procurement &
 Compliance, CN=Dan Bae
 Date: 2023.09.08 15:19:44-04'00'
 Dan Bae Date
 VP of Procurement

Matthew T. Brown Digitally signed by
 Matthew T. Brown
 Date: 2023.09.13
 16:54:01 -04'00'
 Matthew T. Brown Date
 CFO and EVP of Finance, Procurement
 and Compliance

 David L. Gadis Date
 CEO and General Manager

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

GOODS AND SERVICES CONTRACT OPTION YEAR

Utility Locating and Marking Services

(Non-Joint Use)

This contract action is to add funding in the amount of \$419,107.00 to Option Year 3 and exercise Option Year 4 in the amount of \$1,320,000.00. The total funding request is \$1,739,107.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Dynamic Concepts, Inc. (DCI) 1730 17th Street, NE Washington, DC 20002 (LSBE)	SUBS: N/A	PARTICIPATION: 100%
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DESCRIPTION AND PURPOSE

Base Award Contract Value:	\$2,500,000.00
Base Award Contract Dates:	04-01-2020 – 03-31-2021
No. of Option Years in Contract:	4
Option Year 1 Value:	\$0.00
Option Year 1 Dates:	04-01-2021 – 03-31-2022
Option Year 2 Value:	\$0.00
Option Year 2 Dates:	04-01-2022 – 03-31-2023
Option Year 3 Value:	\$980,000.00
Option Year 3 Dates:	04-01-2023 – 03-31-2024
Add funding for Option Year 3 - 4:	\$1,739,107.00
Option Years 3 - 4 Dates:	10-30-2023 – 03-31-2025

Purpose of the Contract:

The Underground Utilities Locating and Marking contractor is responsible for identifying, locating, and marking DC Water underground assets for all excavators, including all DC Water construction projects, other utility companies and agencies, contractors, and private developers. The Department of Water Services manages the contract.

Contract Scope:

The scope of the contract includes responding to all excavators in identifying and properly marking DC Water’s underground assets, water, and sewer facilities up to the property line; this provides damage protection and avoids interference with DC Water’s underground assets. Spending is increasing due to higher prices and increased utility marking requests.

Spend Previous Year:

Cumulative Contract Value:	04/01/20 – 03/31/24: \$3,480,000.00
Cumulative Contract Spending:	04/01/20 – 07/31/23: \$3,096,181.00

Contractor Past Performance:

According to the COTR, the contractor’s quality of products and services, timeliness of deliverables, conformance to DC Water’s policies and contract terms and invoicing met requirements.

PROCUREMENT INFORMATION

Contract Type:	Goods and Services	Award Based On:	Best Value
Commodity:	Utility Marking Services	Contract Number:	19-PR-DWS-29
Contractor Market:	Open Market with Preference Points for LBE and LSBE participation		


BUDGET INFORMATION

Funding:	Non-Joint Use	Department:	Water Operations
Project Area:	Water Services	Department Head:	Jason Hughes

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	100%	\$1,739,107.00
Washington Suburban Sanitary Commission	0%	\$0.00
Fairfax County	0%	\$0.00
Loudoun Water	0%	\$0.00
Potomac Interceptor	0%	\$0.00
Total Estimated Dollar Amount	100%	\$1,739,107.00


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 Jeffrey F. Thompson Date
 Chief Operating Officer, EVP


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 Dan Bae Date
 VP, Procurement

Digitally signed by Dan Bae
 DN: C=US, E=dan.bae@dowater.com,
 O=District of Columbia Water and
 Sewer Authority, OU=VP of
 Procurement & Compliance, CN=Dan
 Bae
 Date: 2023.09.08 09:42:42-04'00'

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 Matthew T. Brown
 Date: 2023.09.12 12:40:16
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 Matthew T. Brown Date
 CFO and EVP, Finance, Procurement and Compliance

_____ /
 David L. Gadis Date
 CEO and General Manager

**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

CONSTRUCTION CONTRACT AMENDMENT 1:

**LEAD FREE DC (LFDC) LEAD SERVICE LINE REPLACEMENT (LSLR) PROGRAM FY23-FY26
BLOCK BY BLOCK CONSTRUCTION**

(Non-Joint Use)

Approval of the contract amendment amount not-to-exceed \$70,000,000 for the task order-based Lead-Free DC (LFDC) Lead Service Line Replacement (LSLR) Program. The amendment exceeds the Chief Executive Officer and General Manager’s approval authority.

CONTRACT02R/SUB/VENDOR INFORMATION

PRIME: See Attachment A for list of PRIME Qualified Contractor Participation	SUBS: Subs will be identified for each task order awarded.*	PARTICIPATION: See Notes Below**
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* Eight firms were prequalified to participate on the Lead-Free DC (LFDC) Lead Service Line Replacement (LSLR) Program. Each of the Eight demonstrated a history of successfully meeting established goals for DBE/WBE utilization. Additionally, the qualified firms agreed to work with DC Water to actively engage the certified business community and meet/exceed DC Water’s business diversity, equity, and inclusion goals established for each task order they are awarded.

** The overall utilization goals for the Master Service Agreement are 35% DBE and 15% WBE, respectively.

DESCRIPTION AND PURPOSE

Original Program Value, Not-to-Exceed	\$130,000,000.00
Value of this Amendment, Not-to-Exceed	\$ 70,000,000.00
Current Program Value, including this Amendment	\$200,000,000.00
Program Time:	3 years (1,095 days)
Program Start Date (NTP):	02-28-2023
Program Completion Date:	02-28-2026

Purpose of the Program:

To support DC Water’s Lead-Free DC (LFDC) Lead Service Line Replacement (LSLR) Program, which will replace all lead service lines in the District of Columbia by 2030. This contract will provide construction resources for FY23-FY26 block-by-block lead service line replacements as a component of the LFDC Capital Improvement Program.

- Qualification Program to identify and engage a pool of multiple contractors who are ready and willing to participate and compete for LFDC LSLR projects/work
- Issuance of master service agreements that will allow early engagement with Suppliers for materials planning and constructability/risk mitigation during project planning phase and the opportunity to efficiently compete for LFDC/LSLR projects as task orders.

Original Contract Scope:

- Removal of existing lead, galvanized, and brass water service lines and replacement with new copper service line.
- Installation of Meters (provided by DC Water), Meter Boxes, Frames and Covers. Meter activation will be completed by DC Water staff.
- Installation of Curb Stops and Curb Stop Boxes.
- Private side tie-ins and coordination with homeowners.
- Restoration and/or replacement of asphalt and concrete roadways (i.e., permanent street restoration), brick and concrete sidewalks, landscaped areas, and other miscellaneous repairs that result from block-by-block projects.
- Interior restoration as required.

Current Amendment Scope

- In accordance with DC Water’s June 2023 Lead Free DC Plan, the volume of work needed to complete the LFDC Initiative of replacing all lead service lines for 2030 has recently been more clearly defined. The scope and cost of the program has grown significantly. There is a need to accelerate the work by increasing the number and size of construction contracts to meet the yearly replacement goals.
- The amendment of \$70,000,000 will expand the contract capacity of the Master Service Agreement while maintaining the 3-year timeline.

Federal Grant Status:

- This Construction Contract is eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION

Contract Type:	Unit Price	Award Based On:	Lowest responsive, Responsible Bidder
Commodity:	Construction	Contract Number:	230030
Contractor Market:	Pre-Qualified Contractors		

BUDGET INFORMATION

Funding:	Capital	Department:	Engineering and Technical Services
Service Area:	Water	Department Head:	William Elledge
Project:	ST		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	59.07%	\$ 41,350,000.00
Federal Funds	40.93%	\$ 28,650,000.00
Washington Suburban Sanitary Commission	0.00%	\$ 0.00
Fairfax County	0.00%	\$ 0.00
Loudoun County & Potomac Interceptor	0.00%	\$ 0.00
Total Estimated Dollar Amount	100.00%	\$ 70,000,000.00

Jeffrey F. Thompson

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Jeffrey F. Thompson _____ Date
 Chief Operating Officer, EVP

Matthew T. Brown

Digitally signed by Matthew T. Brown
 Date: 2023.09.15 15:43:34 -04'00'

Matthew T. Brown _____ Date
 CFO and EVP
 Finance, Procurement and Compliance Cluster



Digitally signed by Dan Bae
 DN: C=US, E=dan.bae@dcwater.com, O=District of Columbia Water and Sewer Authority, OU=VP of Procurement & Compliance, CN=Dan Bae
 Date: 2023.09.15 08:21:18-04'00'

Dan Bae _____ Date
 VP of Procurement

David L. Gadis _____ Date
 CEO and General Manager

**CONSTRUCTION CONTRACT:
Lead Free DC (LFDC) Lead Service Line Replacement (LSLR) Program
(Non-Joint Use)**

Anchor Construction Co Inc.
2254 25th Place NE
Washington, DC 20018

Capitol Paving of DC Inc.
2211 Channing Street, N.E.
Washington, DC 20018

Capital Premier Construction, LLC (DBE)
650 Massachusetts, NW
Washington, DC 20018

Fort Myer Construction Corporation
2237 33rd Street, Northeast
Washington, DC 20018

National Services Contractors (DBE)
2007 MLK Jr Ave, SE
Washington, DC 20020

North Arrow Inc (DBE)
820 First St, NE, Suite LL 170,
Washington, DC 20002

Spiniello Companies
3500 East Biddle Street
Baltimore, MD 21213

The Ford Design Group (DBE)
111 N Orange Avenue, Suite 860
Orlando, FL, 32801

**DC WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET**

ACTION REQUESTED

ENGINEERING SERVICES

**Basic Ordering Agreement – Infrastructure XII
(Non-Joint Use)**

Approval to execute Supplemental Agreement No. 01 for \$1,400,000.00. The modification exceeds the Chief Executive Officer and General Manager’s approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION*:
Johnson, Mirmiran & Thompson, Inc. One Massachusetts Avenue Suite 840 Washington, DC 20001 <u>Headquarters</u> Hunt Valley, MD 21030	Milhouse Engineering & Construction, Inc. Chicago, IL DBE	9.4%
	Delon Hampton & Associates Washington, DC DBE	8.2%
	Savin Engineers, P.C. Baltimore, MD DBE	6.8%
	DM Enterprises of Baltimore, LLC Baltimore, MD DBE	3.1%
	Engineering Design Technologies, Inc. Glen Burnie, MD DBE	0.6%
	Albrecht Engineering, Inc. Baltimore, MD WBE	3.0%
	SZ PM Consultants, Inc. Washington, DC WBE	1.6%
	The Robert B. Balter, Inc. Owings Mill, MD WBE	0.9%
	EN Tech Engineering, PC New York, NY WBE	0.4%

*Participation Percentages Shown Based on Overall \$6.4M BOA.
DBE/WBE Total = DBE 28.1%, WBE 5.9%.

DESCRIPTION AND PURPOSE

Original Contract Value:	\$5,000,000.00
Value of this SA:	\$1,400,000.00
Cumulative SA Value, including this SA:	\$1,400,000.00
Current Contract Value, including this SA:	\$6,400,000.00
Original Contract Time:	1,461 Days (4 Years, 0 Months)
Time Extension, this SA:	2,922 Days (8 Years, 0 Months)
Total Time Extension:	4,383 Days (12 Years, 0 Months)
Contract Start Date:	06-20-2013
Contract Completion Date:	06-20-2025

Purpose of the Contract:

The purpose of this contract is to provide professional architectural/engineering and related services for infrastructure and facilities under a Basic Ordering Agreement. Work is being assigned as task orders on an as needed basis.

Original Contract Scope:

- Original Contract included rehabilitation and replacement of water and sewer pipes and upgrades of water and sewer pumping stations. Engineering services include work in the architectural, civil, structural mechanical processes, HVAC, instrumentation, and electrical design disciplines.

Services include, but are not limited to, preparation of contracts and supporting documents, conducting engineering field surveys and geotechnical investigations, and permit assistance.

- Projects include rehabilitation and replacement of water and sewer pipeline infrastructure and upgrades to water and sewer pump stations.

Previous Supplemental Agreement Scope:

There were no previous SAs for this Contract; only three previous no-cost time extensions.

Current Supplemental Agreement Scope:

- Future Task Orders to complete projects already started under this Agreement.
- Additional budget and time are required to complete work on existing projects that had previously been deferred for several years and have subsequently been restarted. Since deferment, there have been material and labor cost escalation, changes in DC Water Specifications, and new stakeholders.
- Activities under this SA include:
 - Bryant Street Pump Station - Spillage Header Flow Control
 - SOP/O&M Manual
 - Sewer Service Life Restoration Program (SLRP) 5-1
 - Final Design Services
 - Design Services During Construction

Future Supplemental Agreement Scope:

No future SA is anticipated at this time.

PROCUREMENT INFORMATION


Contract Type:	Lump Sum & Cost-Plus Fixed Fee	Award Based On:	Highest Ranking Score
Commodity:	Engineering Design Services	Contract Number:	DCFA #455-WSA
Contractor Market:	Open Market		

BUDGET INFORMATION


Funding:	Capital	Department:	Engineering and Technical Services
Service Area:	Sanitary, Storm, and Combined Sewer, and Water	Department Head:	William Elledge
Project:	HV, IH		

ESTIMATED USER SHARE INFORMATION

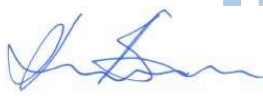
User	Share %	Dollar Amount
District of Columbia	100%	\$1,400,000.00
Federal Funds	0%	\$ 0.00
Washington Suburban Sanitary Commission	0%	\$ 0.00
Fairfax County	0%	\$ 0.00
Loudoun County & Potomac Interceptor	0%	\$ 0.00
Total Estimated Dollar Amount	100%	\$1,400,000.00


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 Date: 2023.09.14 15:54:39 -04'00' /

 Jeffrey F. Thompson Date
 Chief Operating Officer, EVP


 Digitally signed by Matthew T. Brown
 Date: 2023.09.15 14:25:50 -04'00' /

 Matthew T. Brown Date
 CFO and EVP
 Finance, Procurement and Compliance Cluster


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 DN: C=US, E=dan.bae@dcwater.com, O=District of Columbia Water and Sewer Authority, OU=VP of Procurement & Compliance, CN=Dan Bae
 Date: 2023.09.15, 08:21:28-04'00' /

 Dan Bae Date
 VP of Procurement

 David L. Gadis Date
 CEO and General Manger