



**DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
Board of Directors**

Meeting of the
Environmental Quality and Operations Committee

**Thursday, July 15, 2021
9:30 a.m.**

Microsoft Teams

Join on your computer or mobile app

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Or call in (audio only)

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Phone Conference ID: 805 773 849#

- | | | | |
|------------------|-------------|---|---------------------------------|
| 9:00 a.m. | I. | Call to Order | Adam Ortiz
Chair |
| | II. | Roll Call | Linda Manley
Board Secretary |
| 9:05 a.m. | III. | AWTP Status Update | Aklile Tesfaye |
| | | 1. BPAWTP Performance | |
| 9:15 a.m. | IV. | Clean Rivers Status Update | Carlton Ray |
| | | 1. Program Management SA Greeley and Hansen | |
| 9:35 a.m. | V. | Advanced Energy Group (AEG) Stakeholder Challenge | Matt Ries/Sheryl Ude |
| 9:55 a.m. | VI. | Action Items | Joel Grosser/Len Benson |
| | | <u>Joint Use</u> | |
| | | 1. Contract No.: 10081 – Sodium Bisulfite, PVS Chemical Solutions | |
| | | 2. Contract No.: 10082 – Sodium Bisulfite, Southern Ionics | |
| | | 3. Contract No.: 10084 – Sodium Hypochlorite, Kuehne Chemical Co. | |
| | | 4. Contract No.: DCFA 513 - Process Facilities Engineering Basic Ordering Agreement (BOA), Ramboll Engineering, PC f/k/a O'Brien & Gere Engineers, PC | |
| | | 5. Contract No.: 200120 - Potomac River Tunnel – Contract A, Advanced Utility Construction, Anchor Construction Corporation | |

- 6. Contract No.: DCFA 509 - Linear Design, Basic Ordering Agreement (BOA), Whitman, Requardt & Associates, LLP
- 7. Contract No.: DCFA 510 - Linear Design, Basic Ordering Agreement (BOA), Greeley & Hansen
- 8. Contract No.: DCFA 493 - DC Clean Rivers Project Program Management for Professional Engineering Service – SA1, Greeley & Hansen
- 9. Contract No.: 170180 - Miscellaneous Facilities Upgrades (MFU) – Phase 6, Ulliman Schutte Construction, LLC
- 10. Contract No.: 180060 - Miscellaneous Facilities Upgrade (MFU)- Phase 7, American Contracting Environmental Services (ACE), Inc.

Non-Joint Use

- 1. Contract No.: 170190 - Soapstone Valley Park Sewer Rehabilitation, IPR Northeast, LLC
- 2. Contract No.: 200020 – Emergency Sewer Main IR&R Contract FY 21-23, Spiniello Companies
- 3. Contract No.: 170080 – Small Diameter Water Main Replacement 14B, Capital Paving of D.C.

10:15 a.m.	VII.	In-Sourcing Program and Construction Management	Kishia Powell/Len Benson/Paul Guttridge
10:30 a.m.	VIII.	Contractor Availability	Len Benson/Rudy Gonzalez/Korey Gray
10:50 a.m.	IX.	Other Business / Emerging Issues	
10:55 a.m.	X.	Executive Session*	Adam Ortiz Chair
11:00 a.m.	XI.	Adjournment	

Follow-up Items from Prior Meetings:

- 1. *SVP, CIP Project Delivery – provide a compilation of general planning and engineering services contracts executed in 2020 as well as a status update on DC Water’s strategy to gradually bring these types of services in-house. [On Current Agenda]*

The 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: matters prohibited from public disclosure pursuant to a court order or law under D.C. Official Code § 2-575(b)(1); contract negotiations under D.C. Official Code § 2-575(b)(2); legal, confidential or privileged matters under D.C. Official Code § 2-575(b)(4)(A); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security 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); proprietary matters under D.C. Official Code § 2-575(b)(11); train and develop members of a public body and staff under D.C. Official Codes § 2-575(b)(12); decision in an adjudication action under D.C. Official Code § 2-575(b)(13); civil or criminal matters where disclosure to the public may harm the investigation under D.C. Official Code § 2-575(b)(14), and other matters provided in the Act.



Wastewater Operations

Blue Plains Advanced Wastewater Treatment Plant – June 2021

Accomplishments & Priorities

Leveraging Technology – Data Analytics

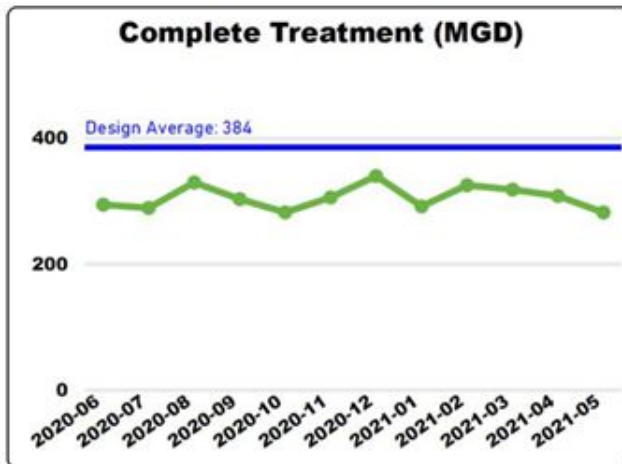
The Process Control System (PCS) at Blue Plains is currently connected to approximately 60,000 devices in the field. With each field point generating up to one data point every second, PCS Historian stores tremendous amounts of data. However, getting value out of that data to drive greater process efficiency means using analytics as a foundation for optimization. Proven processes and software technologies allow staff to combine data from an array of sources and rapidly identify problems, discover root causes, predict future performance, improve quality and compliance sustainability, and decrease O&M costs. While there are numerous software applications available in the market for data analytics, Seeq is one of the few designed specifically for industrial process data. The software has user-friendly, yet powerful built-in algorithms, which allow the user to clean and contextualize complex process data in real time. O&M and Process Engineers have been slowly integrating Seeq into their toolbox for troubleshooting, plant optimization and asset management over the last year. Seeq has proven to be useful in assisting staff in their journey to become a more data driven operation.

One recent data analytics completed using the tool resulted in correcting errors in meters used to measure high pressure steam generated by the Combined Heat and Power (CHP) facility. High pressure steam generated by the CHP is the most important commodity and is essential for the operation of the thermal hydrolysis process (THP) and production of Exceptional Quality (EQ) Class A Biosolids. The accurate measurement and control of steam is necessary and is achieved with the use of instrumentation and controls including two sets of steam flow meters. Analytics of the data sets sourced from the meters showed that the magnitude of the observed errors were strongly correlated with steam temperature. Further investigation revealed that the temperature/density compensation feature in one set of meters installed by Constellation (the contract operator) was not activated, while the second set of meters installed by DC Water were configured correctly. Consequently, the manufacturer’s representative corrected this issue while onsite and certified the steam flow meters. Since this correction, the errors between the two sets of meters were eliminated and there is greater confidence that the flow meters are reliable.

Operational Performance

Blue Plains Complete Treatment Performance: The plant performance for the month of June 2021 was excellent with all effluent parameters well below the seven-day and monthly NPDES permit requirements. The monthly average flow through complete treatment (Outfall 002) was 301 MGD. The total volume for the month of June of treated captured combined flow directed to Outfall 001 from the Wet Weather Treatment Facility (WWTF) was 76 MG.

Figure 1. Monthly Average Influent Flow Trend to Complete Treatment (MGD)



Wet Weather Treatment Facility (WWTF) Performance: In June 2021, a total of 251 MG of combined wet weather flow, captured in the tunnel system, was treated through the plant. There was 17 MG of measured overflow that took place on this month (Table 1).

Table 1. Wet Weather Treatment Facility (WWTF) Performance

	June 21 (Draft)	Calendar Year 2021 (Through June)
Total Precipitation, inches (DCA gauge)	3.26	21.84
Total Volume Captured in the Anacostia Tunnel, MG	142	962
Measured Overflow, MG	17	17
Percent Captured**	94%	98%
Screenings and Grit Capture, tons	422	1,560

Note

*Based on preliminary data.

**Expected Capture ~80%

Operational Performance

Blue Plains Electrical Energy Use and Generation: The Combined Heat and Power (CHP) facility continued to demonstrate excellent performance in June. The gas turbines at this facility were able to produce an average of 7.8 megawatts (MW) of renewable electricity during this month. Contractually, the CHP performance is evaluated based on the net electricity export to the Blue Plains grid, which averaged 6.4 MW as shown in Figure 2 below.

Although the solar system is still in the commissioning phase, the newly installed solar panels continued exporting electricity to the plant in June. The daily average production was approximately 0.85 MW. The commercial operation date when the solar provider can start billing DC Water for the electrical production has yet to begin. The solar contractor is working to complete all the technical requirements and begin performance testing in the upcoming months.

The total electricity consumption at Blue Plains averaged 28.1 MW during the month of June. Out of total electrical consumption, 26% of electricity was generated onsite between CHP and solar panels, which surpasses the plant performance metrics of 20%. DC Water purchased an average of 20.8 MW of electricity from PEPCO as shown in the graph below.

Figure 2. Blue Plains Energy Report – December 2019 to June 2021: Average Electricity Purchased from PEPCO (light blue), Net Export from CHP (dark blue), Solar Power Production (orange) and % of Total Plant Electricity Use Generated Onsite (green line on right Y-axis)



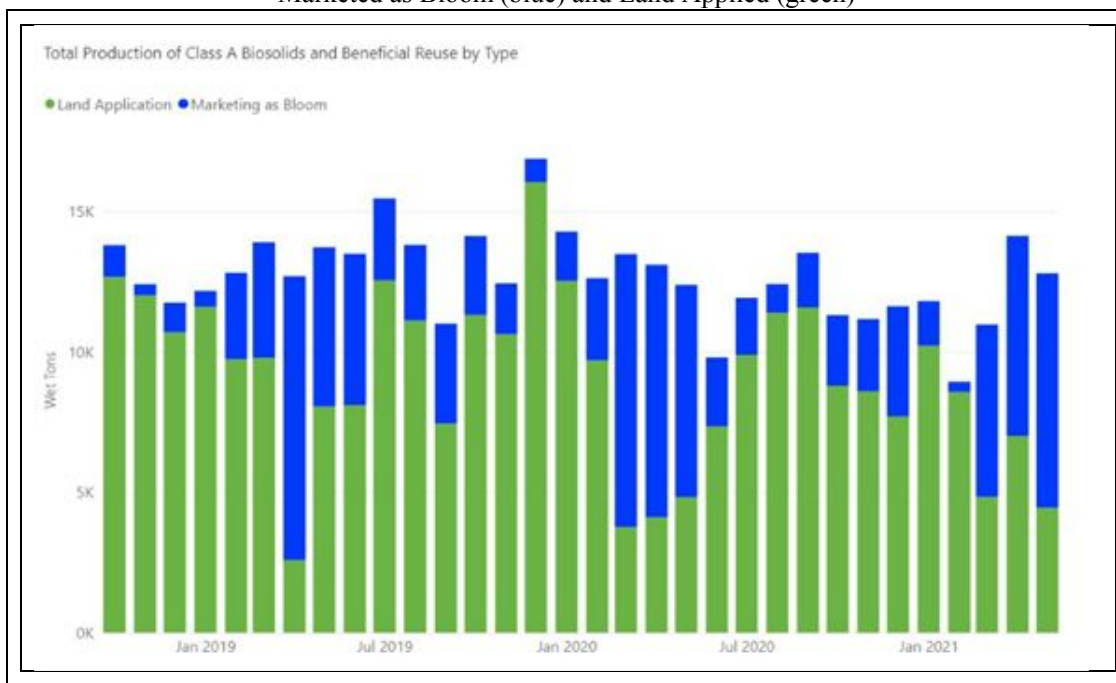
Note: Solar panel power monitors are still in commissioning phase.

Class A Biosolids Production: In June, biosolids hauling averaged 423 wet tons per day (wtpd). All biosolids produced during the month met Class A Exceptional Quality (EQ) requirements required by EPA. Fecal Coliform values on daily process monitoring samples remained below the 1,000 MPN*/gram required for Class A biosolids - consistent with the low levels measured historically.

*Most Probable Number (MPN) per gram measures statistical probability of number of organisms

Bloom Marketing: The average quantities of Class A biosolids transported and applied on farms and the quantities marketed as Bloom are shown on the graph below. In June, Blue Drop sold 3,773 wet tons of Bloom (Figure 3). The remaining 8,931 wet tons not sold into the market were land applied through DC Water (through Blue Drop) and WSSC contracts.

Figure 3. Tons of Class A Biosolids Produced - October 2018 to June 2021 Marketed as Bloom (blue) and Land Applied (green)



Progress Report

Water Quality & Pretreatment: During the month, staff completed and issued seven Temporary Discharge Authorization permits*; and one Waste Hauler permit**. Staff conducted two industrial user inspections and compliance monitoring at the General Services Administration (GSA) and Capitol

Power Plants and participated in Teams meetings regarding permitting of the District's Department of Public Works transfer stations and the Washington Aqueduct McMillan Plant filter backwash.

Note:

* DC Water allows residents, businesses, and government agencies to discharge stormwater, groundwater, and surface water runoff from construction/dewatering projects or other temporary water discharges (e.g., power wash runoff, hydro-demolition wastewater, etc.) to the District's wastewater system on a case-by-case basis.

** DC Water allows businesses and government agencies with a permit to discharge domestic (i.e., residential-type) septage, grease trap waste, uncontaminated non-wastewater flows, and other non-hazardous waste (allowed on a case-by-case basis) at the Blue Plains Advanced Wastewater Treatment Plant (AWTP). It is illegal to discharge hauled waste directly to the District's wastewater system anywhere else within the District of Columbia.

Research and Development: Three presentations were given by DC Water research students at the virtual WEF innovations in process engineering conference (June 9-10, 15-16). They highlighted research done at DC Water on development of partial denitrification – anammox for filter applications (Fofana et al.) as well as applications directly applicable to Blue Plains (Forney et al). In addition, a novel control approach to maintain good settleability while minimizing aeration energy was presented for secondary systems (Tampon et al.). In addition to the three DC Water led presentations, we had three additional contributions to other papers as collaborator. The list of DC Water presentations (in bold DC Water contributors):

1. Optimizing and Validating Mainstream Partial Denitrification Anammox (PdNA) in Deep-Bed Polishing Filters: Assessment of Media Type and Carbon Source - **Rahil Fofana, DC Water**; Megan Bachmann, HRSD; Benay Akyon, Xylem; Kimberly Jones, Jeseth Delgado Vela, Howard University; Stephanie Klaus, Michael Parsons, Charles Bott, HRSD; Christine DeBarbadillo, Black & Veatch; **Haydee De Clippeleir, DC Water & Sewer Authority**
2. Optimization of Fermentate-Based Pre-Anoxic Partial Denitrification-Anammox (PdNA) Applications - **Nicole Forney, George Washington University, DC Water**; **Mojolaoluwa Ladipo-Obasa, DC Water**; Rumana Riffat, George Washington University; Bernhard Wett, ARAconsult; Charles Bott, HRSD; Christine DeBarbadillo, Black & Veatch; **Haydee De Clippeleir, DC Water & Sewer Authority**
3. Bioflocculation Controller for Contact Stabilization Process: Respiring New Life into an Old Process - **Patrexia Tampon, Khoa Nam Ngo, Haydee De Clippeleir, DC Water & Sewer Authority**; Tim Van Winckel; Arash Massoudieh; Charles Bott, HRSD; Bernhard Wett, ARAconsult; Sudhir Murthy, NEWhub; Ahmed Al-Omari, Brown and Caldwell
4. Integrated Shortcut Nitrogen Removal with Anammox and Sidestream bioP — Redirecting Carbon for Maximum Benefit - Kester McCullough, Cornell University / HRSD; Stephanie Klaus, Anand Patel, Kyle Malin, HRSD; Christopher Wilson; IL HAN, Cornell University; **Haydee De Clippeleir, DC Water & Sewer Authority**; April Gu, Cornell University; Charles Bott, HRSD
5. How Low Can We Go — Evaluating the Limits of SRT and Loading Rates with THP-AD Systems for Process Intensification - Matthew Higgins, Bucknell University; Bill Barber, AECOM; Steven Beightol, Bucknell University; Sudhir Murthy, NEWhub; Christine DeBarbadillo, Black & Veatch; **Haydee De Clippeleir, DC Water & Sewer Authority**
6. Getting to the Bottom of Granular Sludge Separation with CFD Modeling - Ed Wicklein, Carollo Engineers; Beate Wright, Carollo Engineers; Sudhir Murthy, NEWhub; Charles Bott, HRSD; Robert

	Angelotti; Haydee De Clippeir , Christine DeBarbadillo, Black & Veatch; Tanja Rauch-Williams, Carollo Engineers
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District of Columbia Water and Sewer Authority
David L. Gadis, CEO and General Manager



Briefing on:

DC Clean Rivers Project Quarterly Update

Briefing for:

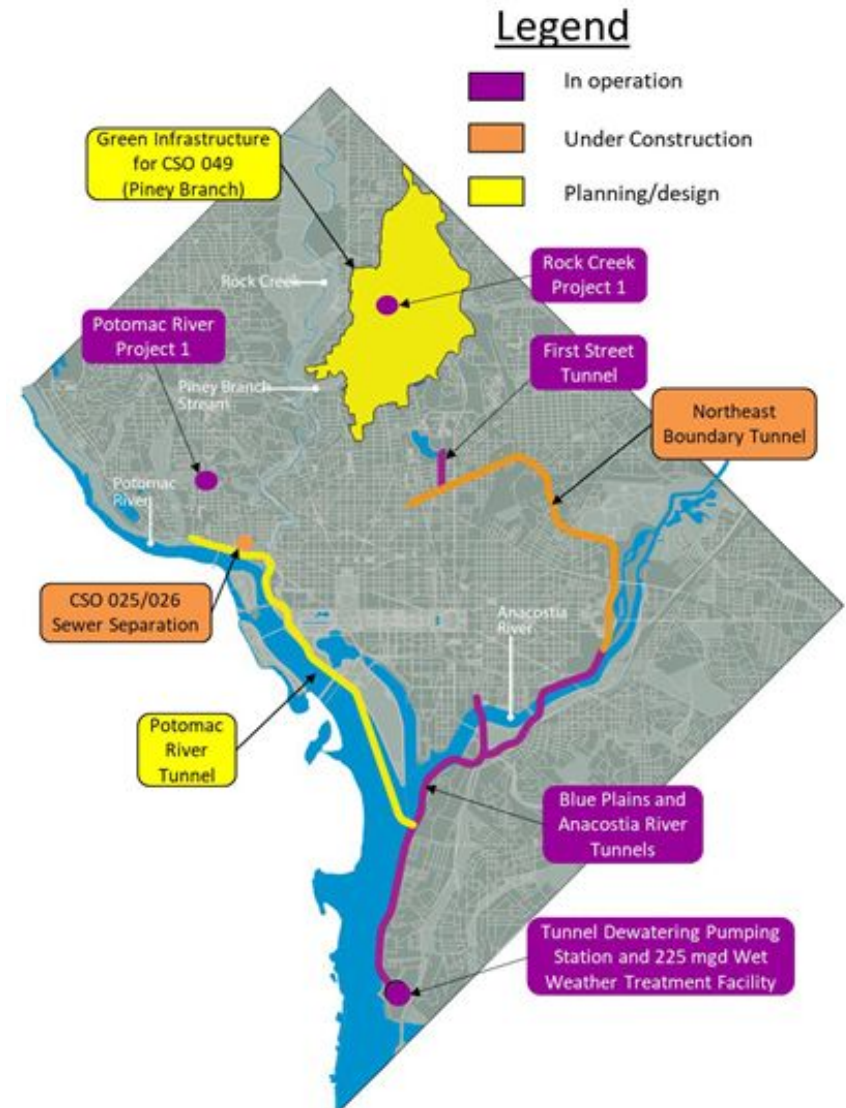
Environmental Quality & Operations Committee Meeting

July 15, 2021

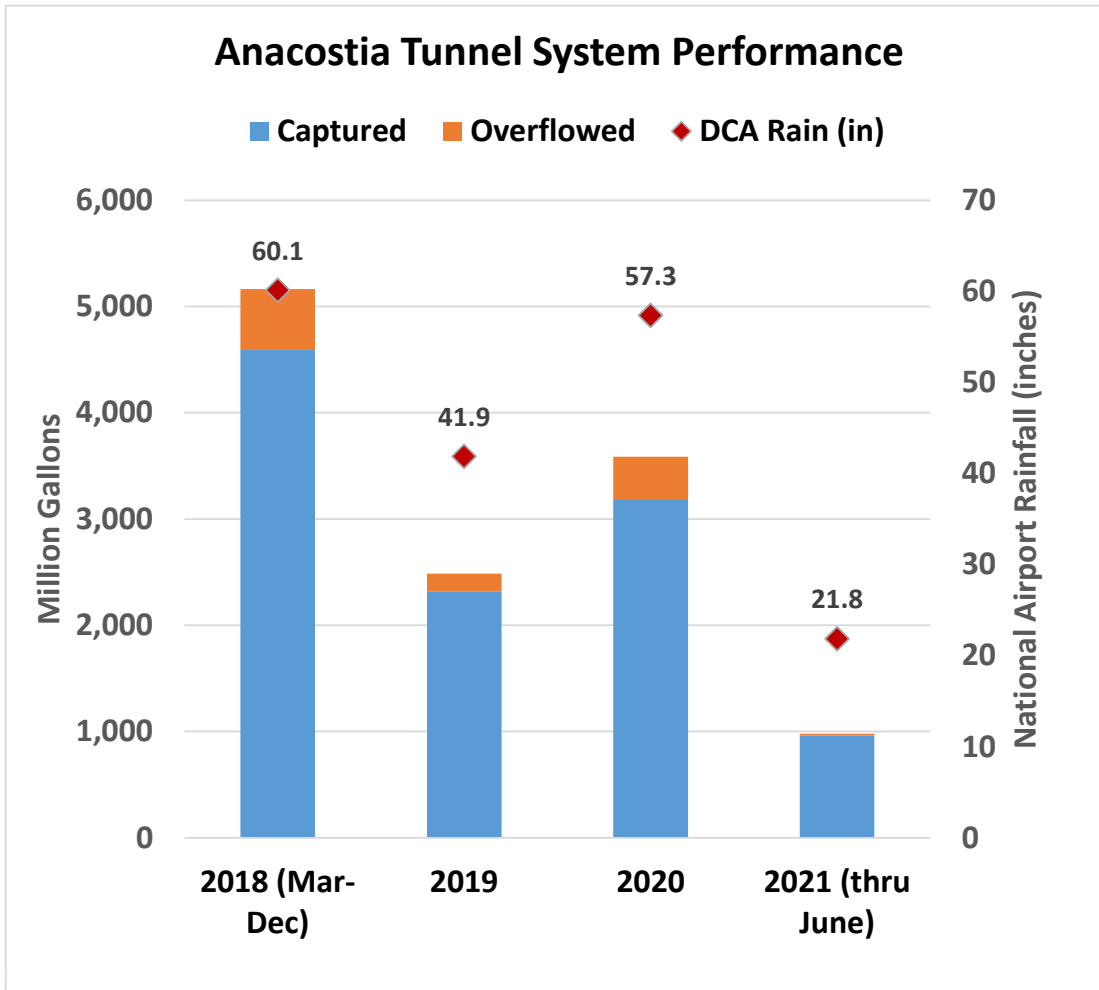
DCWATER.COM

Project Snapshot

Area	Status
Anacostia	
Anacostia Tunnel System	<ul style="list-style-type: none"> • More than 11 billion gallons captured • More than 6,000 tons of trash/debris removed
Northeast Boundary Tunnel	<ul style="list-style-type: none"> • Mining of main tunnel completed • TBM removed • Work at shaft sites continues
Potomac	
CSO 025/026 Separation	<ul style="list-style-type: none"> • Construction NTP issued Jan 28, 2021 • Work in field started this month
Potomac Tunnel Advance Utility Construction	<ul style="list-style-type: none"> • Bids received • Contract award at EQ & Ops this month
Potomac Tunnel Construction	<ul style="list-style-type: none"> • 90% RFP document being prepared
Rock Creek	
Green Infrastructure (GI)	<ul style="list-style-type: none"> • Design complete on Rock Creek, Project B – next GI Project • Rock Creek Project B Procurement underway



Anacostia Tunnel System Performance



- Over **11 billion** gallons captured Mar 2018 - Jun 2021
- Over **6,081 tons** of trash, debris, and other solids captured
- Exceeding predicted capture rate (90% > 80%)



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



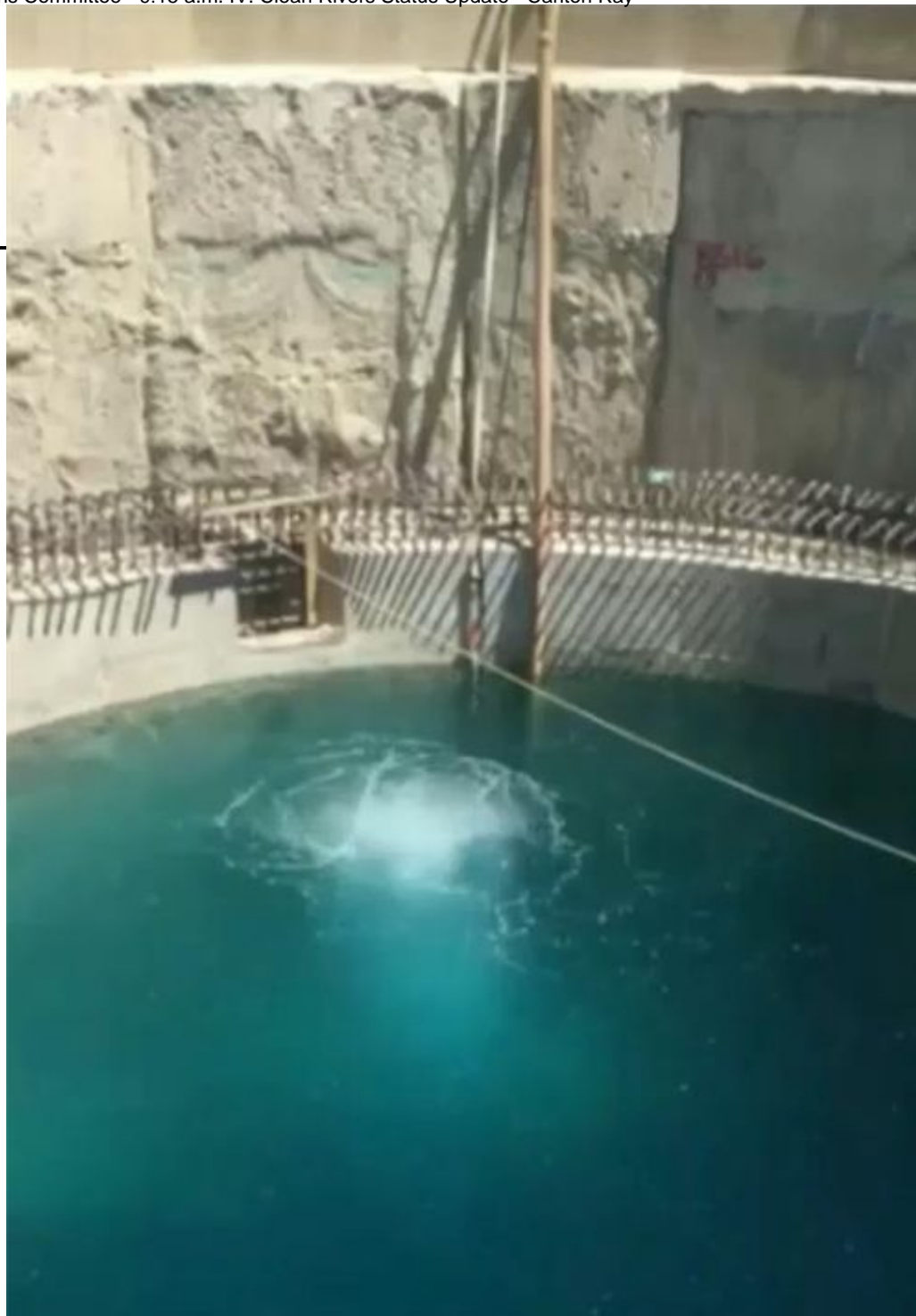
Division J – Northeast Boundary Tunnel Tunnel Construction Progress

- Tunnel Boring Machine (TBM) Chris completed mining
 - 26,670 ft
 - 4,442 tunnel segment rings
- TBM Chris disassembly completed at R St Shaft.
- Removing utilities lines along tunnel (ventilation, air and water)
- Preparing tunnel for future adit connections from off line shafts



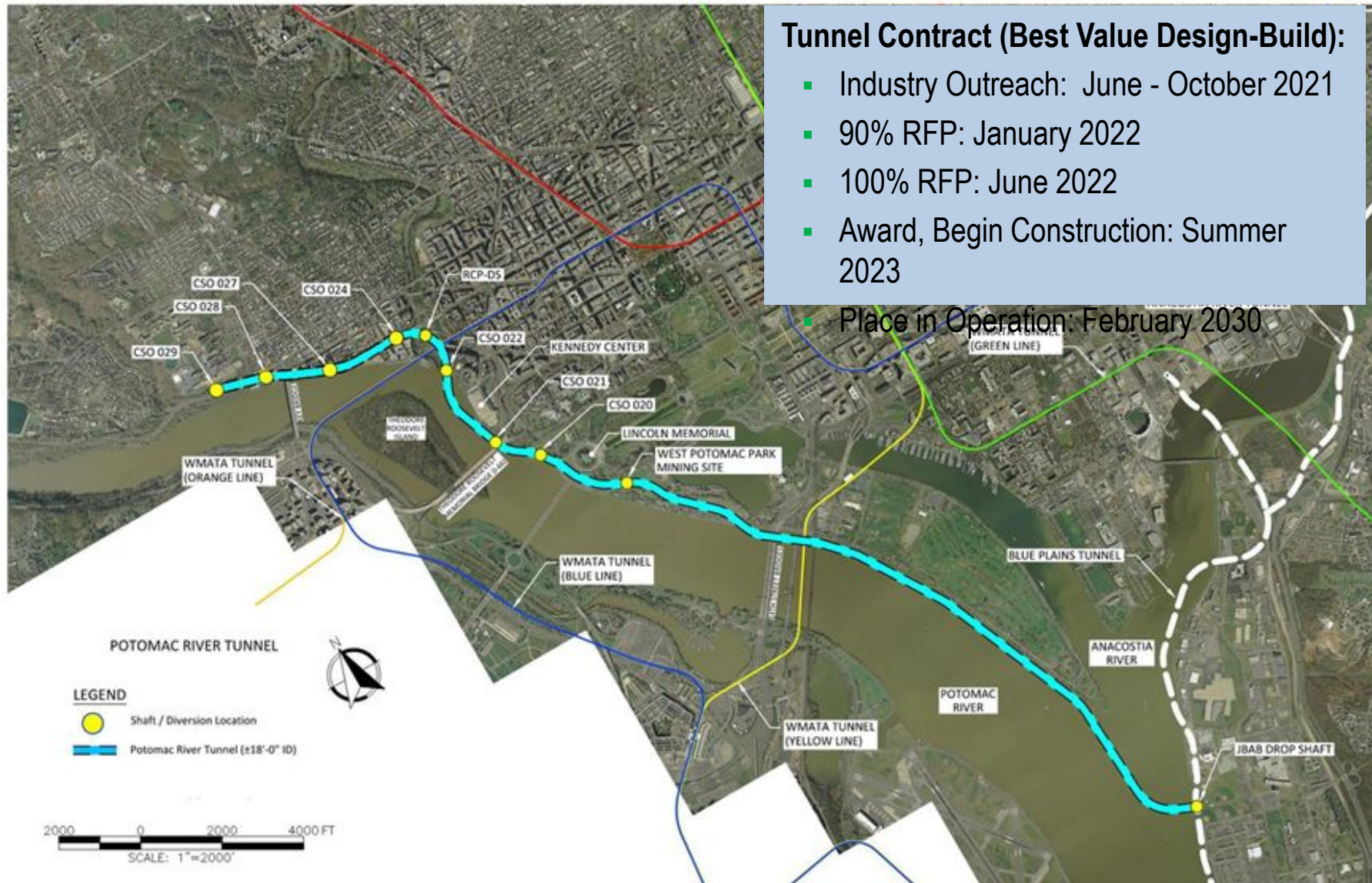
Division J – Northeast Boundary Tunnel Tunnel Construction Progress

- Removing TBM Chris from R Street shaft





Potomac River Tunnel



Tunnel Contract (Best Value Design-Build):

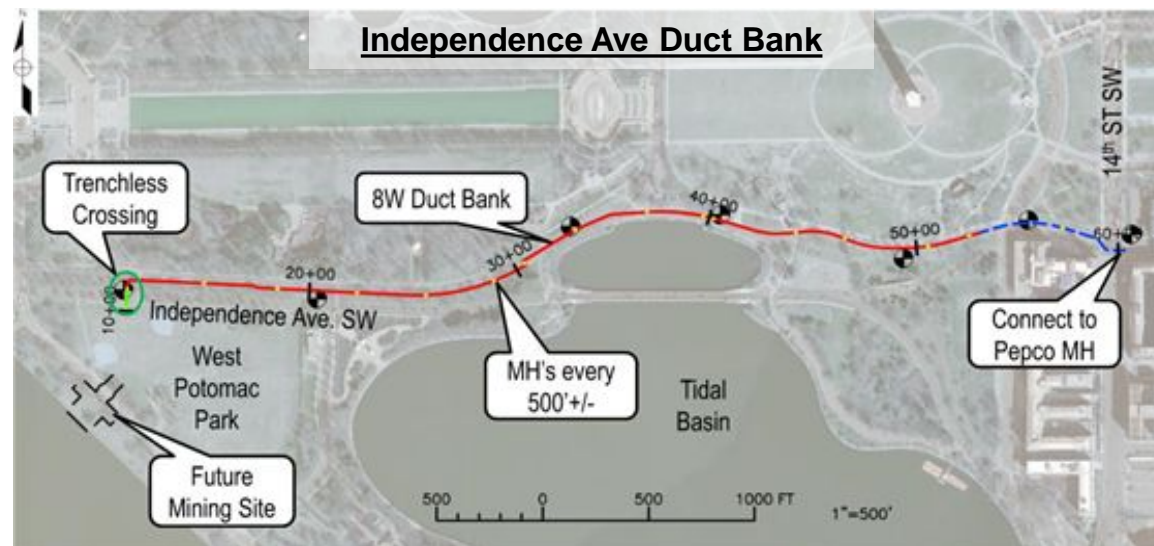
- Industry Outreach: June - October 2021
- 90% RFP: January 2022
- 100% RFP: June 2022
- Award, Begin Construction: Summer 2023

■ Place in Operation: February 2030



Potomac River Tunnel Contract A Advanced Utility Construction

- Construct duct bank on Independence Ave to power TBM
- Construct electric services at other sites
- Schedule:
 - RFP Issued: March 12
 - Technical Proposals Received: May 27
 - Selection recommendation completed
 - Contract for EQ&Ops approval July 2021 (this month)
 - NTP: Sept 2021
- Other utility relocations to be performed by individual utilities throughout calendar 2021, 2022
 - Washington Gas
 - Verizon





CSO 025/026 Sewer Separation

- Mobilization and work in field started in July 2021
- Washington Gas contractor (InfraSource) performing relocation at various project sites
 - a. Work completed at 31st & K St NW May 19th, 2021
 - b. Work at Wisconsin Avenue & K Street NW is ongoing
- Continued community outreach to engage Advisory Neighborhood Commission, Georgetown Business Improvement District, and community prior to start of construction.
 - a. Preconstruction Survey is ongoing
- Preconstruction submittal process is ongoing



Rock Creek Project B Outreach Activities

- Press Release for Project Description and Public Comment Period
- DC Water websites updated, and project specific website created with interactive map
- Social media posts
- Mailers to all residents in project area
- Door-to-door canvassing for all properties adjacent to proposed facilities
- Project factsheets for each project area (example shown in image)
- Hosted 2 DCW project-specific Public Meetings
- Presented at 4 ANC meetings
- Presented to Mayors representatives and District Agencies (DDOT/DOEE)
- Presented at webinar hosted by DC environmental groups
- Met with specific residents to discuss project concerns
- Gathered and responded to public comments
- Posted Final Project Description Document to website, updated final facility locations in the interactive map, and informed all meeting participants and commenters of posting

ROCK CREEK PROJECT B - Area 6

A part of DC Water's Clean Rivers Project Green Infrastructure (GI) Program

CONTACT INFO

Rock Creek Project B
 dcwater.com/rockcreekgreenb
 cleanrivings@dcwater.com
 202-787-4142

DC Water Customer Service
 202-354-3600

ROCK CREEK PROJECT B

SCHEDULE

- Design & Permitting: Summer/Fall 2021
- Construction Begins: Early 2022
- Rock Creek Project B Completion: January 2024

COMMUNITY BENEFITS

- Local green jobs
- Create more green space
- Beautify neighborhoods
- Provide educational opportunities
- Reduce localized drainage issues on streets and alleys

CONSTRUCTION INFORMATION

DC Water will inform residents of construction schedule and impacts through meetings and notifications. Please contact cleanrivings@dcwater.com for any questions regarding this project.

MAINTENANCE

To ensure continued performance of GI and the associated reduction of combined sewer overflows, the GI facilities must be maintained regularly. DC Water is responsible for maintenance of DC Water GI Facilities.

SCAN THE CODE BELOW FOR MORE INFORMATION AND AN INTERACTIVE MAP OF GI LOCATIONS

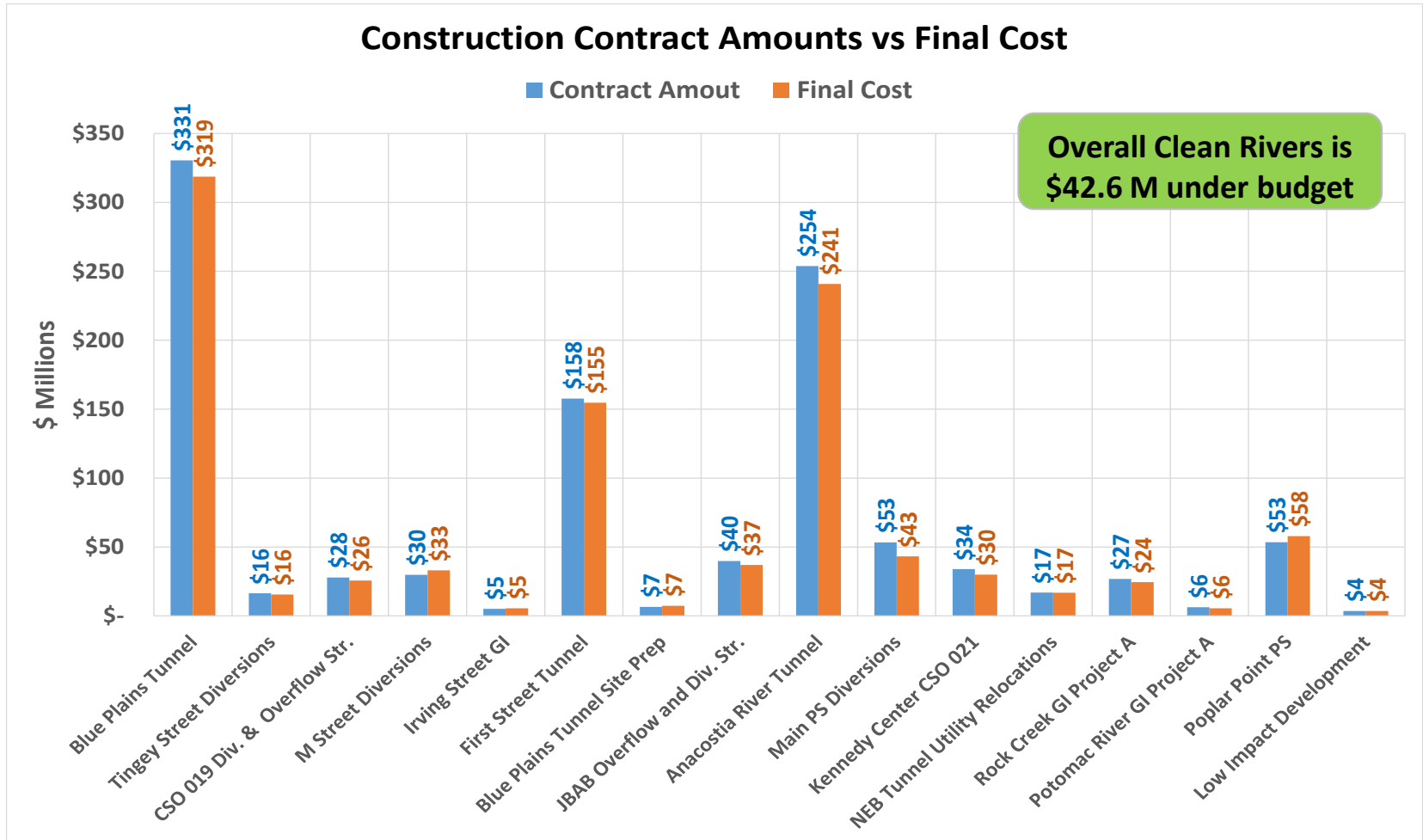
Project Location: Area 6 (of 6)
Neighborhood: Brightwood Park
ANC: ANC 4D
Green Infrastructure Facilities:

- 13 permeable alleys
- 3 bioretentions

dc clean RIVERS PROJECT

V6/21

Clean Rivers Budget



Clean Rivers expenditures on Northeast Boundary Tunnel are not expected to exceed the budget

DCFA#493-WSA - PROGRAM MANAGEMENT FOR ENGINEERING SERVICES

EXERCISE OF OPTION YEARS

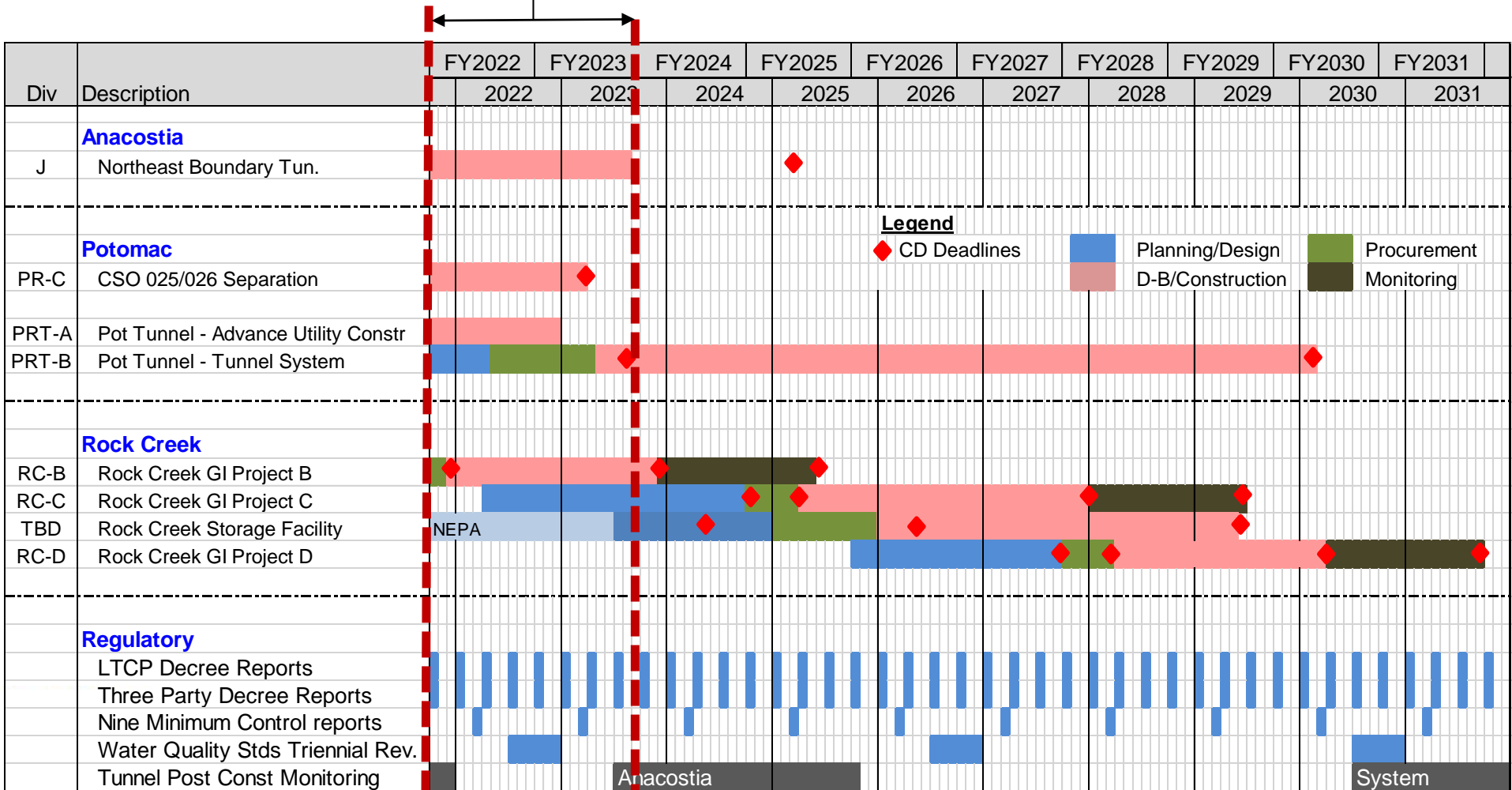


Remaining Work: Schedule

Consent Decree work in FY22-FY23 includes:

- Anacostia: complete Northeast Boundary Tunnel (\$580 M)
- Potomac:
 - Complete Potomac Tunnel Advanced Utility Construction
 - Potomac River Tunnel permitting, design & procurement (>\$500M)
- Rock Creek: 2nd GI Project and NEPA work for Piney Branch storage

Workload will reduce as Projects are completed



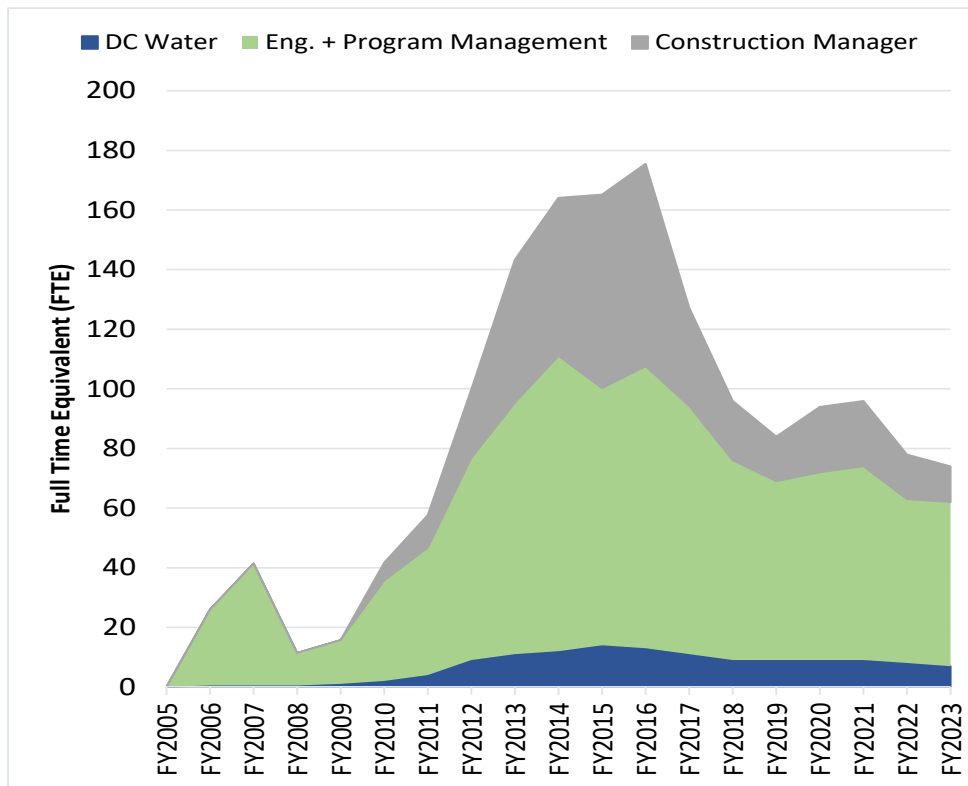
Clean Rivers Implementation Model

- Implementation models evaluated in 2007-2008
 - Large Owner Staff
 - Tailored Owner Staff
 - DC Water selected Tailored Owner Staff with consultants for following reasons:
 - Clean Rivers has finite duration and objective – to get Consent Decree projects built
 - Does not require DC Water to hire expertise that is difficult to find
 - DC Water would have challenges repurposing specialty staff when no longer needed and then have to lay them off
 - Allows consultant staff to be adjusted year-by-year as the program changes
 - Provides specialty services on-call as needed to be successful
 - More efficient and effective
 - Approx. 8.5 years left to meet final Consent Decree deadline
 - Would take 5+ years to find, hire and train DC Water staff
 - Not practical or efficient given remaining work left on project
- Issues of specialty services and repurposing staff when no longer needed remain

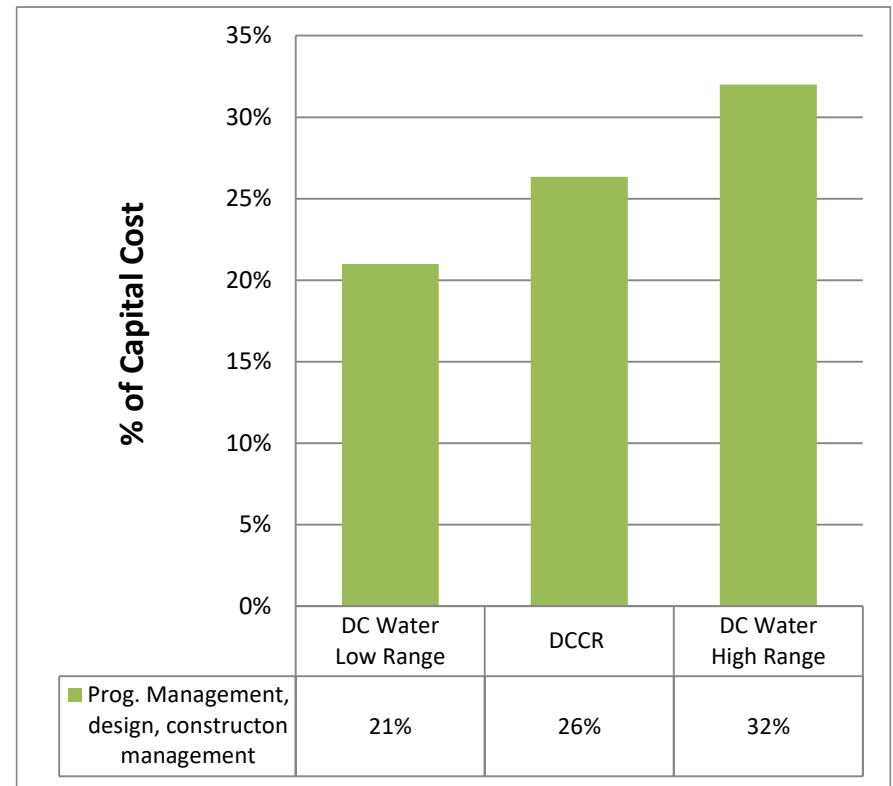


Program Performance

Staffing levels have and will continue to change to meet needs efficiently



Clean Rivers costs have been comparable to DC Water metrics



Services assigned to Program Manager: operational plan & hydraulic design, design and guidelines for tunnels and GI, right of way and easements acquisitions, agency coordination and permits, Geotechnical investigations, boring, testing and interpretation, environmental data and baseline reports, risk management, cost estimating, public and other third-party outreach, NEPA documentation, regulatory/permitting assistance

Program Management Contract (DCFA #493-WSA) Summary

- Procurement
 - Competitively procured 2017/2018
 - Awarded to Greeley and Hansen LLC on October 1, 2018
- Amount: \$75,702,068.00
- Duration: Base contract duration is three years and ends September 30, 2021 (FY2021)
- Option years:
 - Board Fact Sheet and contract provided for two option years for FY2022 and FY2023
 - Option years to be exercised by Supplemental Agreement



DCFA #493 Contract Summary: Performance Assessment

Schedule

- Met all Consent Decree deadlines to date

CSO Reduction

- More than 11 BG captured
- Exceeding predicted capture levels 90% vs 80%

Budget Performance

- \$5M under engineering services budget

DBE/WBE/CBE Thru March 26, 2021

- 29.7% DBE, 6% WBE exceeding goals of 28%/4%
- 46% CBE for GI on goals of 50%

Technical and Quality Performance

- Exceptional performance in terms of work product, quality, understanding of DCW's sewer system, regulatory matters and needs

Permits, Easements & MOUs

- 44 easements, 61 agreements and MOUs
- Several thousand permits



DBE/WBE/CBE Participation

SUBCONSULTANT		PARTICIPATION	AMOUNT
DBE/WBE Applicable to Tunnel and Shared Services:			
JCK Underground Boston, MA 02205	DBE	7.93%	\$3,730,573.00
Shrewsbury Associates, LLC Indianapolis, IN 46256	DBE	4.34%	\$2,043,525.00
Mckissack & Mckissack Washington, DC 20001	DBE	4.06%	\$1,908,761.00
Delon Hampton & Associates Washington, DC 20001	DBE	4.31%	\$2,027,275.00
E2CR, Inc Baltimore, MD 21227	DBE	3.96%	\$1,863,356.00
Interagency Washington, DC 20003	DBE	1.32%	\$620,046.00
MNK Consultant Woodbridge, VA 22192	DBE	1.19%	\$559,286.00
SZ PM Consultants, Inc Washington, DC 20036	DBE	0.89%	\$418,111.00
Subtotal DBE		28.00%	\$13,170,933.00
DP Consultants Washington, DC 20005	WBE	1.40%	\$657,943.00
J-Dos Internationale Washington, DC 20011	WBE	1.85%	\$871,196.00
LS Caldwell & Associates, Inc. Washington, DC 20011	WBE	0.75%	\$352,423.00
Subtotal WBE		4.00%	\$1,881,562.00
CBE Applicable to GI-Dedicated Services:			
Delon Hampton & Associates Washington, DC	CBE	26.58%	\$1,526,480.00
MCKISSACK & MCKISSACK Washington, DC 20001	CBE	15.65%	\$899,011.00
Interagency Washington, DC 20003	CBE	7.77%	\$445,978.00
Subtotal CBE		50.00%	2,871,469.00



Recommendation

- Recommend execution of Supplemental Agreement No. 1 exercising two option years in the amount of \$52,781,983 for the following reasons:
 - Consent Decree deadlines met
 - Consultant performing well - technical, quality, budget, and DBE/WBE/CBE performance
 - Option years provided for in Fact Sheet approved by the Board and Contract
 - Consultant preparing designs for Potomac River Tunnel –
 - Procurement to select a program manager disruptive to meeting Consent Decree deadline
 - Consultant Professional Engineers required to seal RFP document (more than 500 drawings and companion specifications) - changing engineer of record in middle of design jeopardizes design responsibility



EXTRA SLIDES



Division J – Northeast Boundary Tunnel Mt. Olivet Road Construction Progress

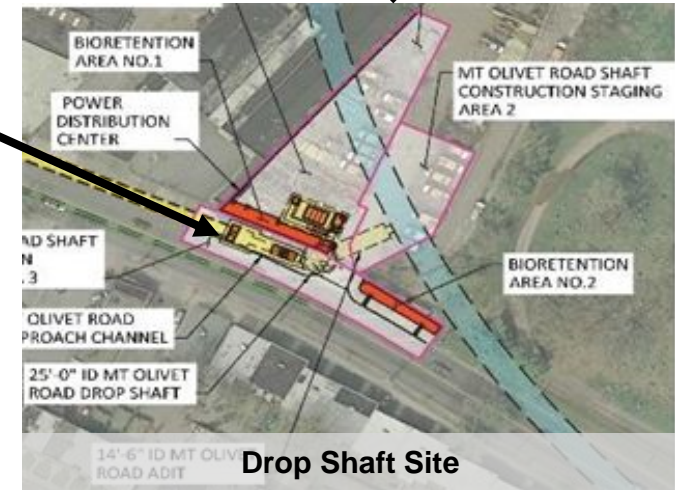


Drop Shaft Site

- Completed shaft internal hydraulic structures. Adit horizontal vent shelf construction remains.
- Completed Approach Channel (AC) excavation and installed concreted base slab.
- Staging for and preparing tunnel boring machine for construction of the Mount Olivet Diversion Sewer (10 foot diameter).



Mini-TBM Parts & Equipment on Site



Drop Shaft Site

Diversion Site

- Excavating for diversion structure construction, removed existing combined sewer and installed steel flume.
- Continue Diversion Chamber (DC) excavation & support of excavation (SOE) installation.



Diversion Chamber Excavation & Lagging Installation



Diversion Site

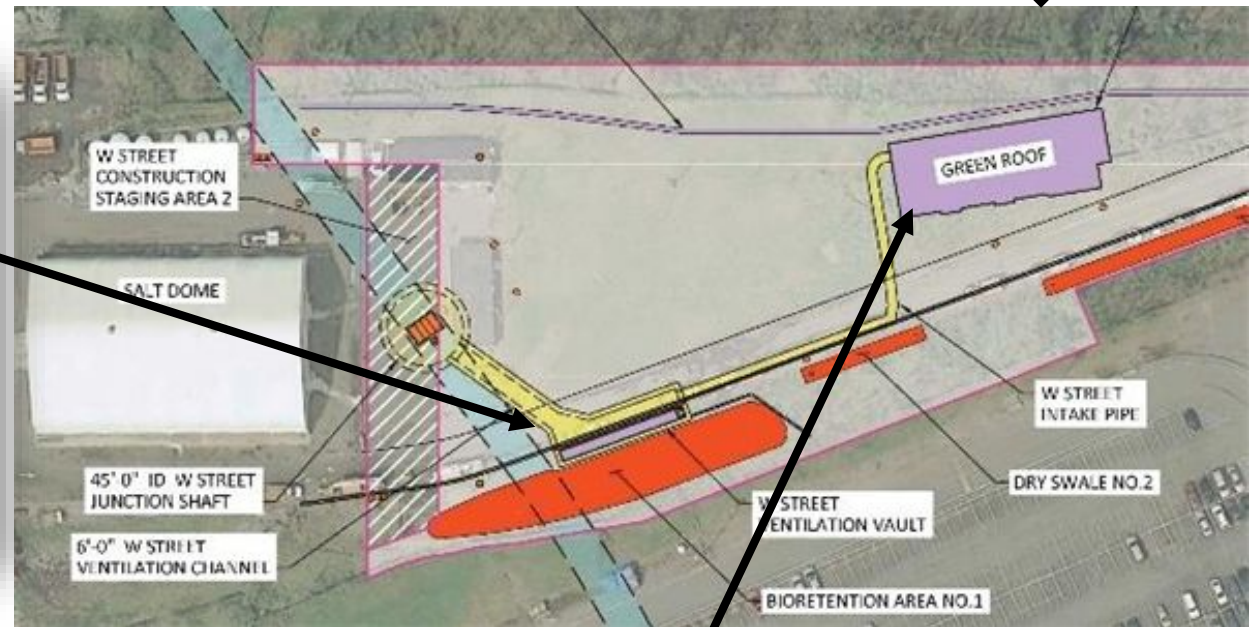




Division J – Northeast Boundary Tunnel W Street Construction Progress



Ventilation Channel and Vault



- Construction ongoing for Ventilation Channel (VC) and Ventilation Vault (VV) Structures.
- Excavating Ventilation Control Facility and installing steel bracing supports.



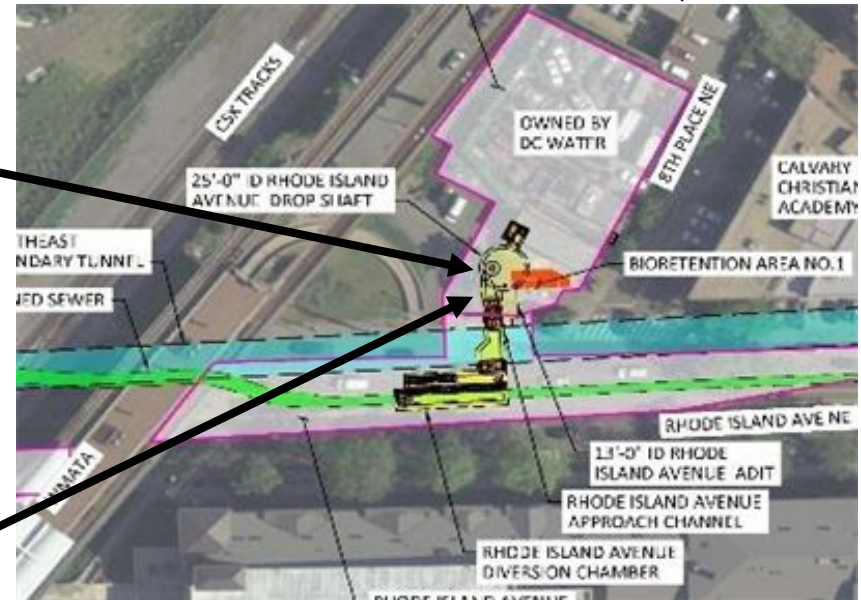
Ventilation Control Facility



Division J – Northeast Boundary Tunnel Rhode Island Ave Construction Progress



Drop Shaft Concrete Liner



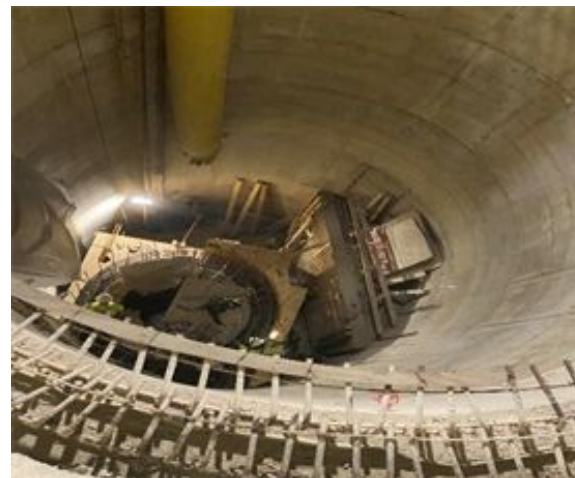
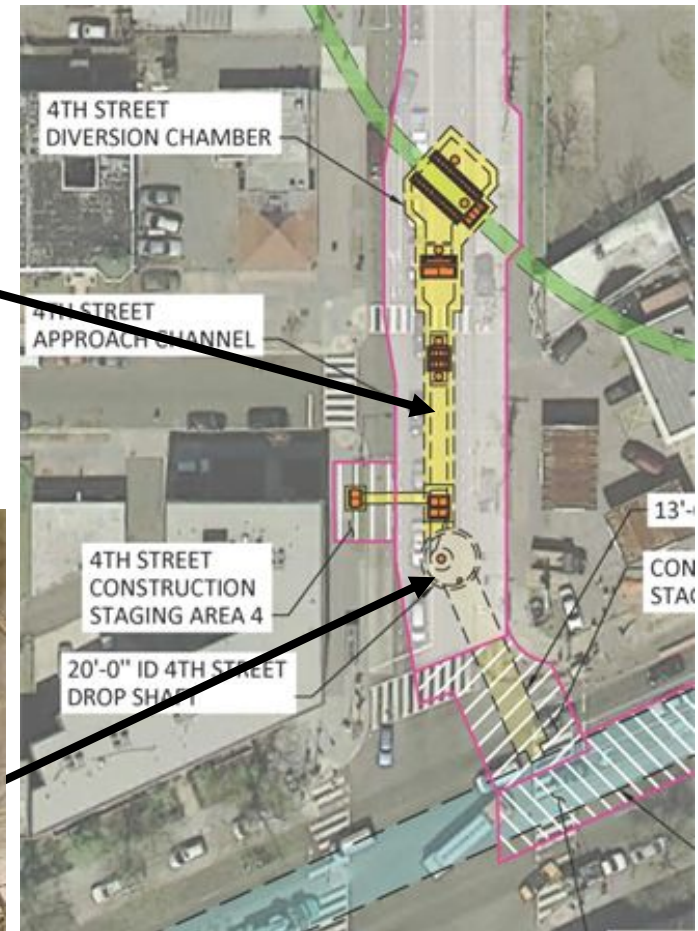
Adit Excavation

- Completed Drop Shaft concrete liner
- Commenced Adit Excavation
- Completed installation of all support of excavation elements and ground improvement for Near Surface Structures
- Commenced Diversion Chamber Excavation

Division J – Northeast Boundary Tunnel 4th Street Construction Progress



Approach Channel Walls



Shaft Internal Concrete Work

- Constructed Base Slab and Lower walls of Approach Channel
- Commenced Shaft Internal hydraulic structure construction (Vent Riser and Drop Pipe)
- Completed Adit vent shelf construction

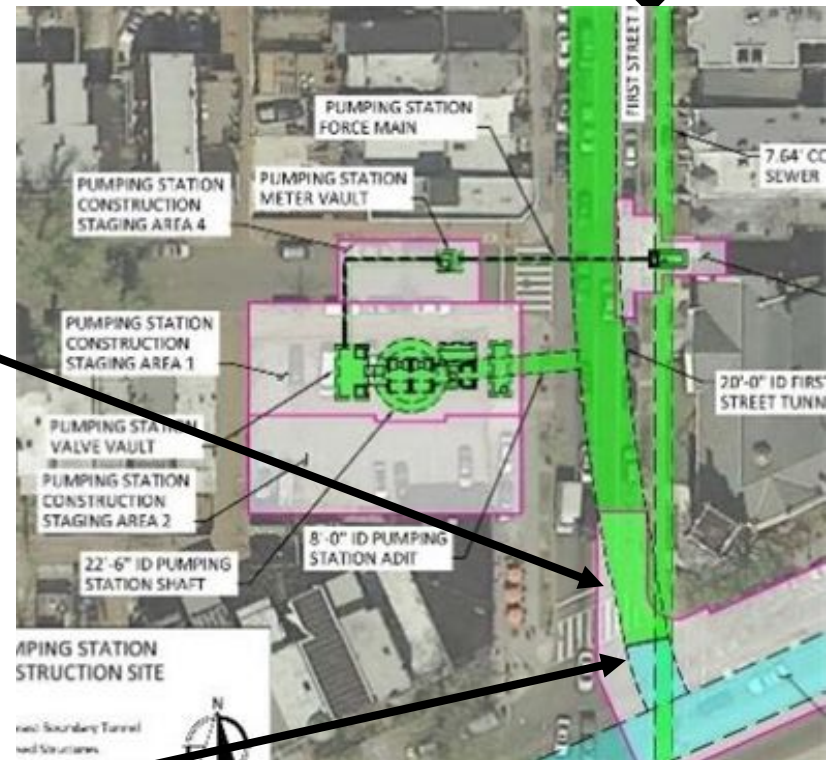
Division J – Northeast Boundary Tunnel First Street Construction Progress



1st Street NW Road Restoration

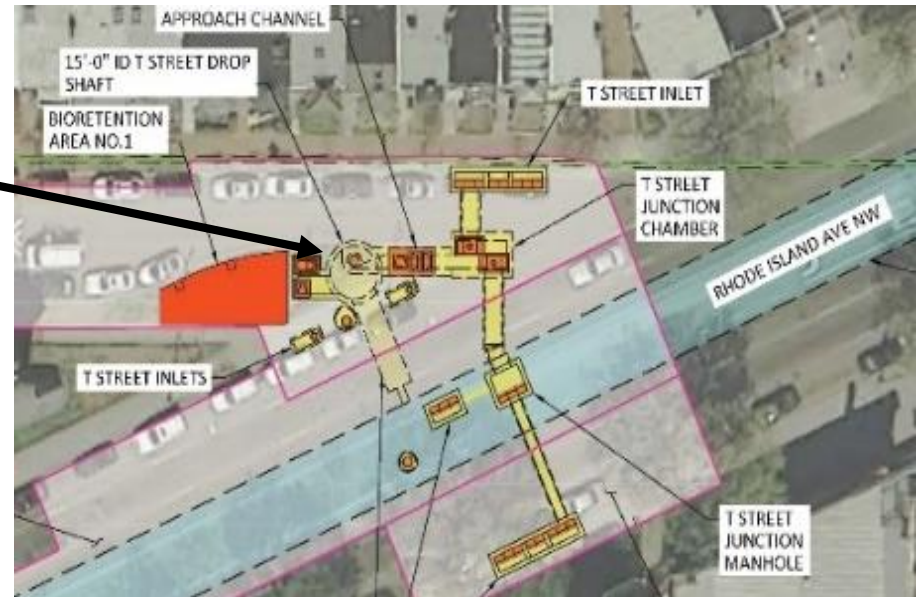


Rhode Island Ave NW Phase 7



- Completed Road Restoration
- 1st Street NW open to 2-way traffic

Division J – Northeast Boundary Tunnel T Street Construction Progress

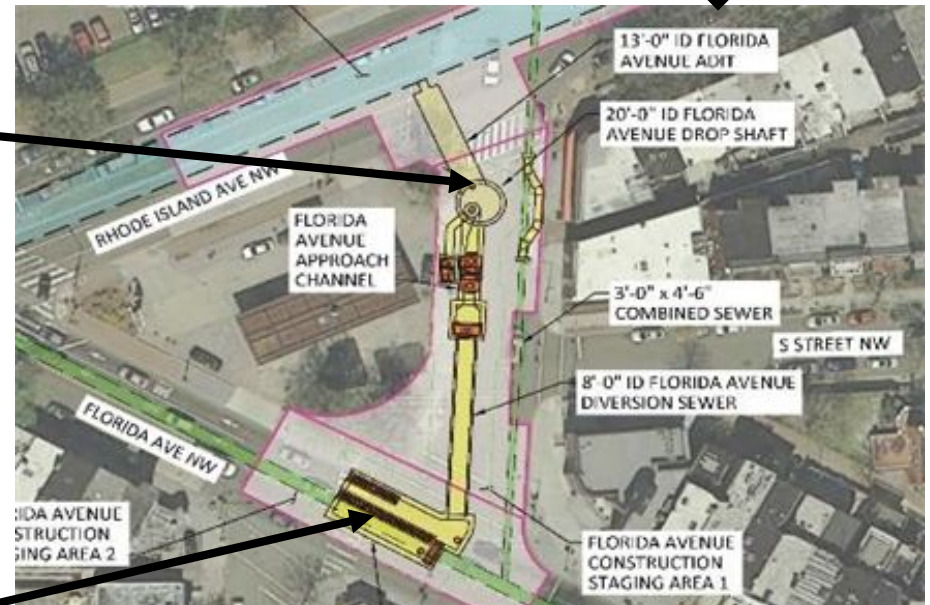


- Completed excavation of shaft and installed base slab
- Started installation of remaining shaft final liner (two lifts at bottom of shaft remain)
- Started excavation of approach channel and diversion chamber

Division J – Northeast Boundary Tunnel Florida Ave Construction Progress



Adit Freeze Pipe Installation



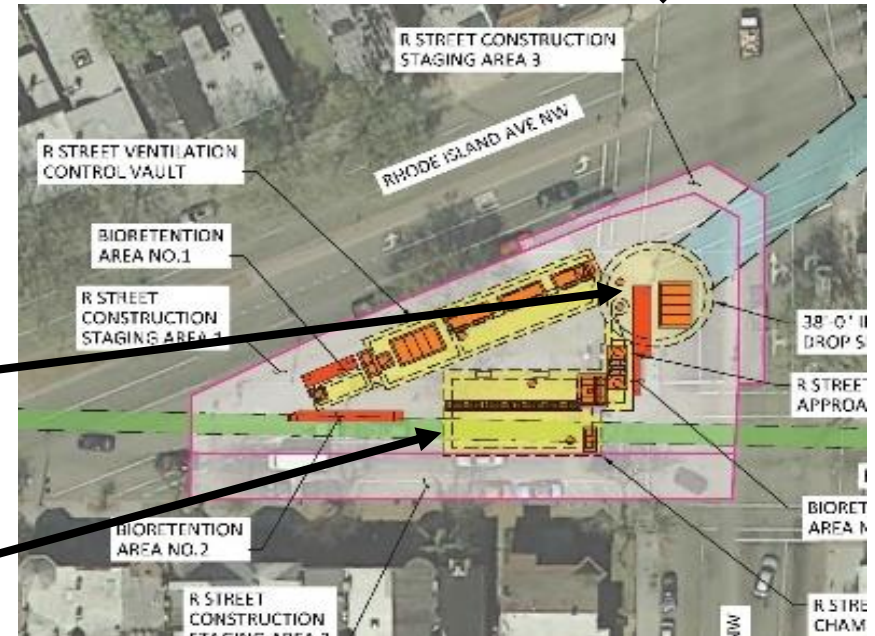
Diversion Chamber Construction

- Installed horizontal freeze pipes for the future adit ground freezing effort
- Completed excavation of the Diversion Chamber and began construction of the permanent structure
- Began excavation for the Approach Channel and future Florida Avenue Diversion Sewer

Division J – Northeast Boundary Tunnel R Street Construction Progress



R Street Site Overview



- Completed construction of shaft final liner and supported tunnel boring machine removal.
- Excavating for construction of the R Street Diversion Chamber and Approach Channel.

Division J – Northeast Boundary Tunnel Public Outreach Efforts

Partnerships
with Main Street
Organizations

Extension of Memoranda of Agreements for partnerships with the 3 Main Streets for another 12 months with continued emphasis on direct assistance/grants.

Monthly Coordination Meetings on-going with Main Streets. New scrim fence wrapping is proposed for both the R St. and 4th St. construction sites. Direct assistance/grants are being distributed to 42 local small businesses nearest construction sites.

Lunch Purchase Program continues to provide meals to construction site personnel purchased from local small businesses impacted by NEBT construction. To date 161 meals served to crews at 6 construction sites.

Key Virtual
Meetings and
Issues

Tunnel Forums held on April 8th and 22nd with neighborhoods west and east of N. Capitol St. NW.

Met on 5/12 with DMPED PM of McMillan Development site starting Channing St. construction coordination.

Provided NEBT and media buy briefing to Kirsten Williams, DC Water's Chief Communications & Stakeholder Engagement Officer.

Met with Emergent Prep School to inform them of upcoming 4th Street NE work expected to be impactful.

Met with Studio Elan owner to update about project and met with **Bethesda Baptist Church** to learn of plans to develop the parking lot after NEBT construction is complete.

Commuter
Outreach
Program

Media Advertising approved for 6-month coverage on WAMU and WHUR with digital ads, on-air commercials, and a series of sponsored DCist articles.

Worked with Office of Marketing and Communications preparing press releases on end of TBM mining and Twitter content of TBM disassembly and milestones. Over 300 followers of @Chris_TBM.





Green Infrastructure Rock Creek Project B

Consent Decree Requirements

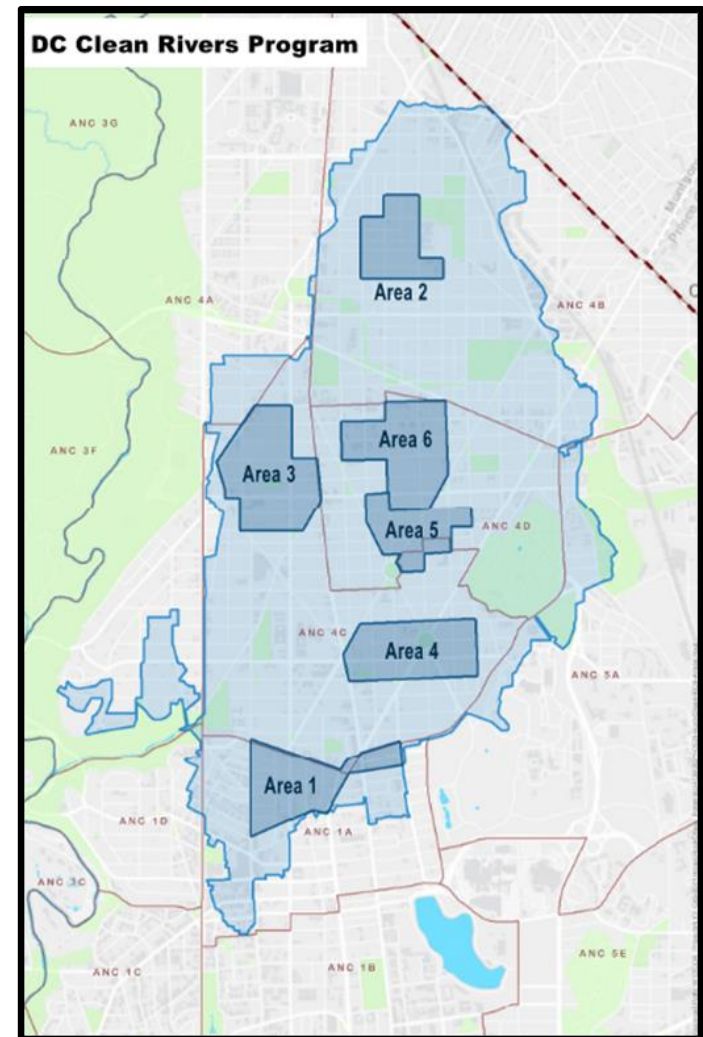
- Manage 22 impervious acres with green infrastructure
- Award Construction by January 23, 2022
- Place in Operation by end of January 23, 2024

Approach

- Extremely short timeframe for design and procurement
- Focus on right-of-way standardized planter bioretention and permeable alleys

Procurement Steps

- ✓ Request for Qualifications issued February 2021
- ✓ Firms shortlisted May 2021
- ✓ Request for Proposals issued June 1, 2021
- Proposals due July 27, 2021
- Anticipate contract award in Nov 2021, ahead of Consent Decree deadline





Advanced Energy Group Stakeholder Challenge Environmental Quality & Operations Committee Briefing

Executive Sponsor: Kishia L. Powell, COO

July 15, 2021



Agenda

- **Advanced Energy Group (AEG) Quarterly Challenge Structure**
- **Task Force Structure & Project Status**
- **“Value” Tools to Score Projects for:**
 - **Carbon Reduction**
 - **Resilience**
 - **Equity**
- **Value / Effort Assessment Framework**
- **Stakeholder Advocacy / Policy Approach & Next Steps**

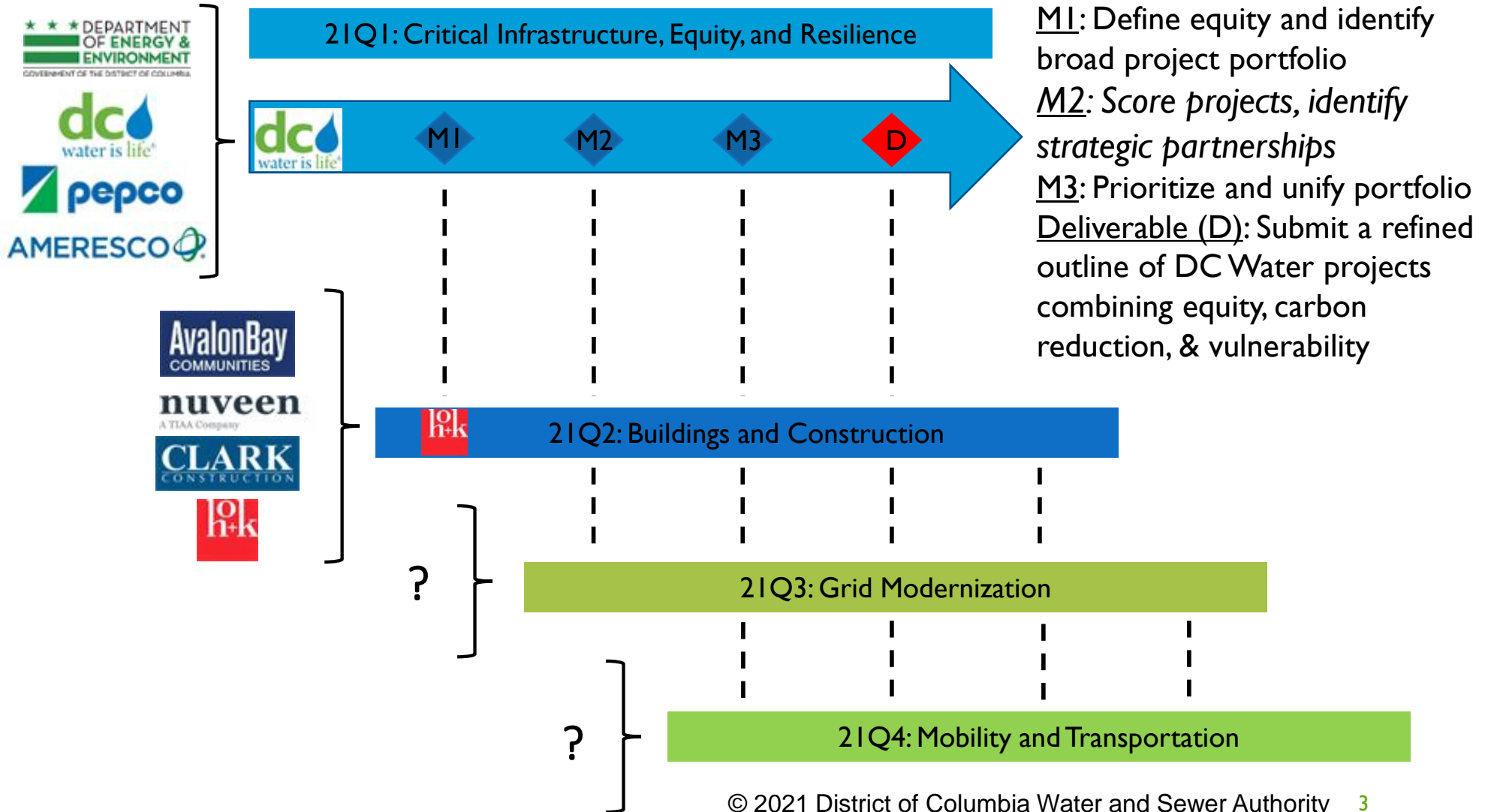


Equity Definition: *Impartial access to affordable, reliable, and sustainable energy through inclusion and engagement of disadvantaged communities to enhance community resilience, health and safety and support the District’s climate change and sustainability objectives.*



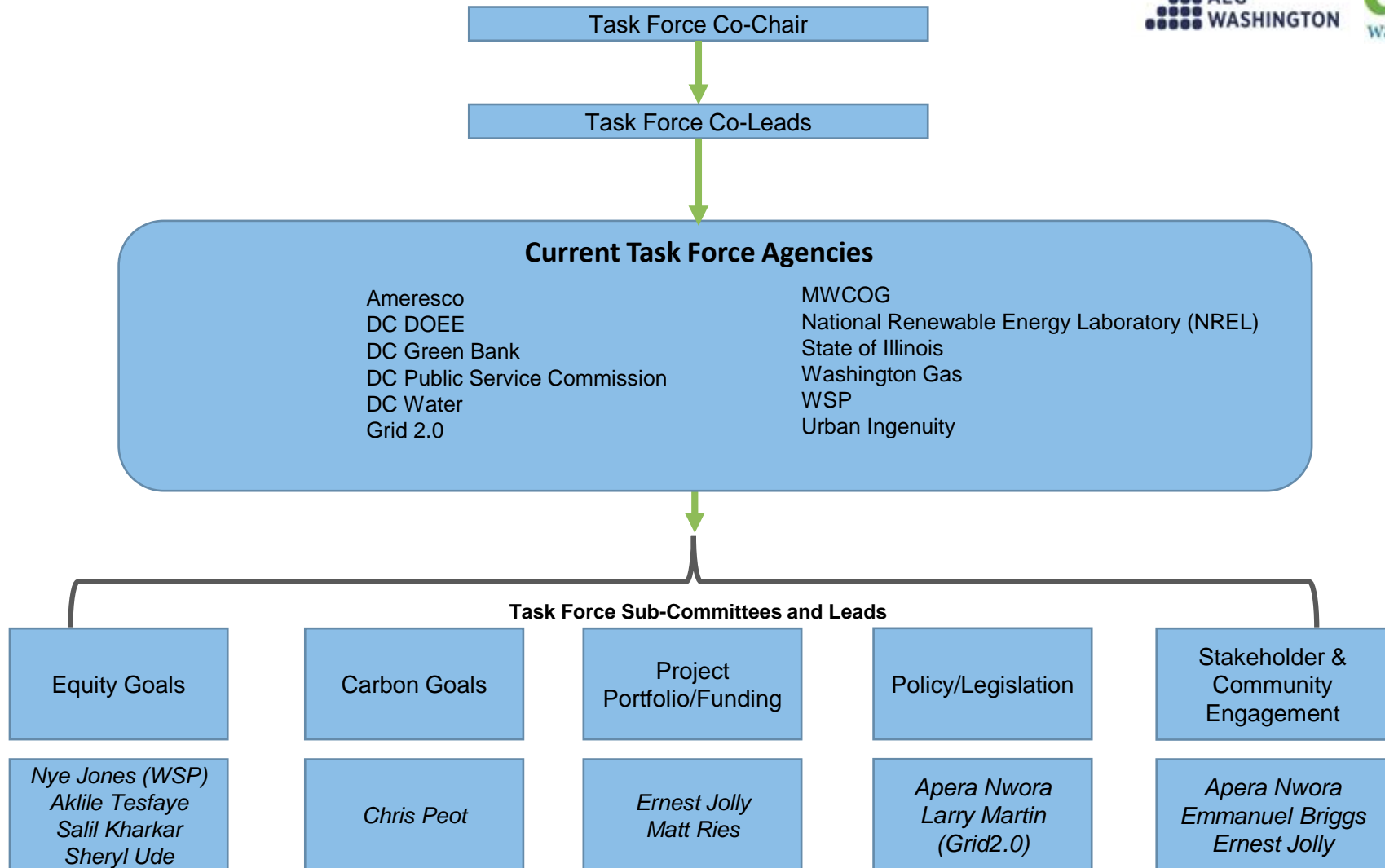
AEG Washington Challenge: Quarterly Milestones & Inter-Challenge Connections

Year-Qtr	21Q1	21Q2	21Q3	21Q4	22Q1	22Q2	22Q3	22Q4
Month	Jan.	Apr.	Jul.	Nov.	Jan.	Apr.	Jul.	Oct.





AEG Washington 21Q1 Challenge Task Force



Project Status

Defined equity within the context of this Challenge

Created & tested scoring mechanisms for Carbon, Resilience, & Equity

Scoring initiated using Value / Effort Matrix

Exploring potential stakeholder / advocacy / funding opportunities

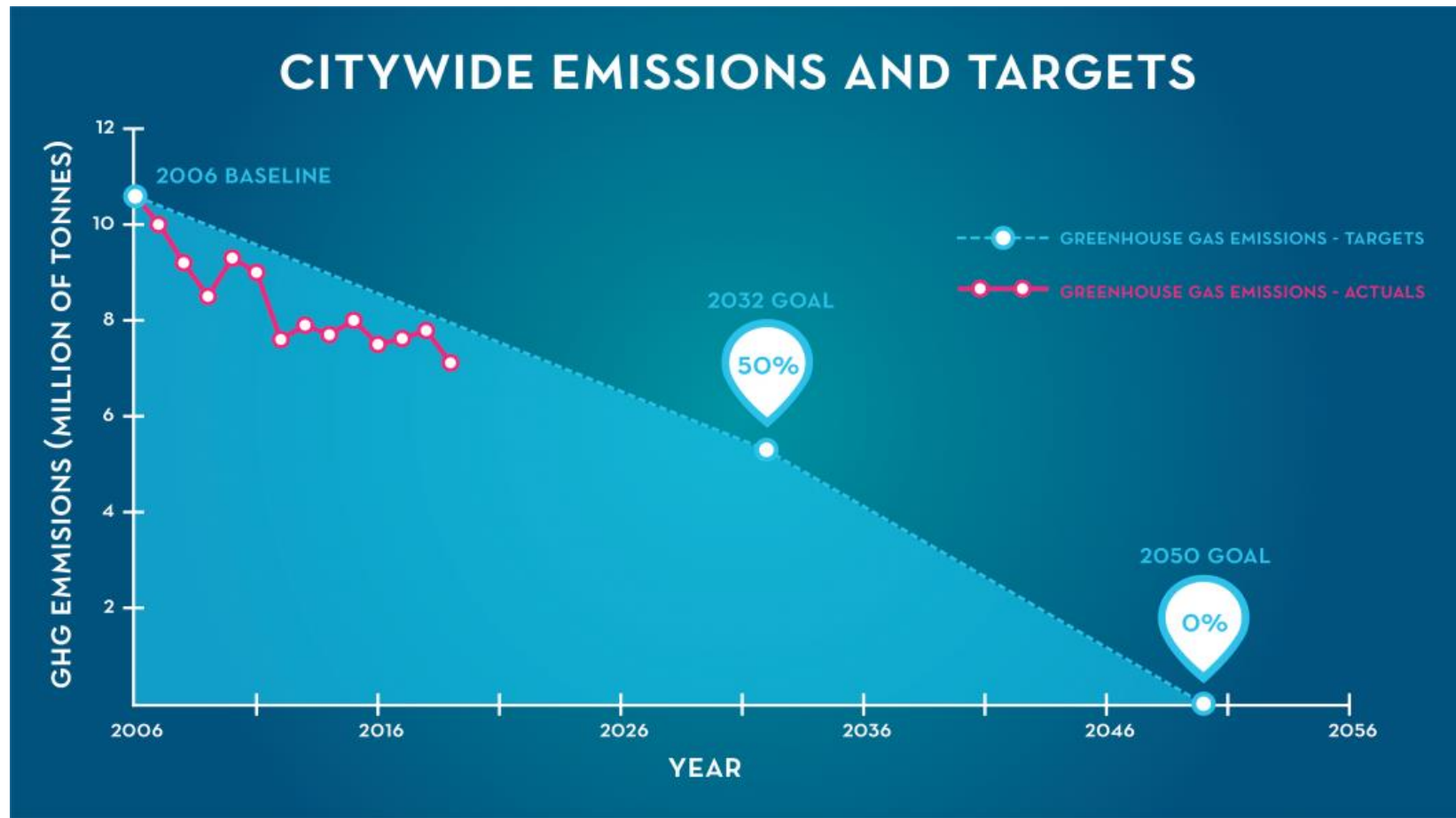


“Value” Tools to Score Projects for: Carbon Reduction, Resilience, & Equity



District Carbon Goals

The District of Columbia is committed to reducing greenhouse gas emissions 50% below 2006 levels by 2032 and carbon neutrality by 2050





Scoring Projects / Tool Development

Carbon Tool

Measures Avoided Carbon



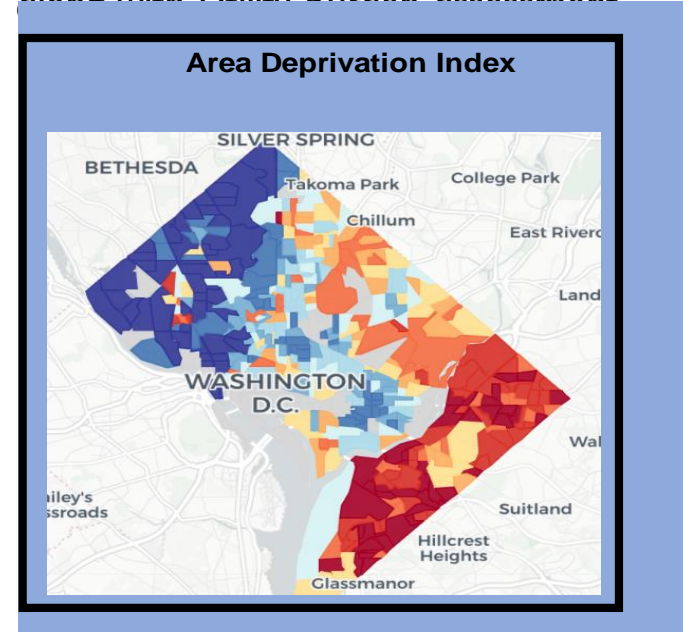
Resilience Tool

Measures both Community & Infrastructure Resilience



Equity Tool

Includes Inclusion & Engagement along with Utility Burden assessment

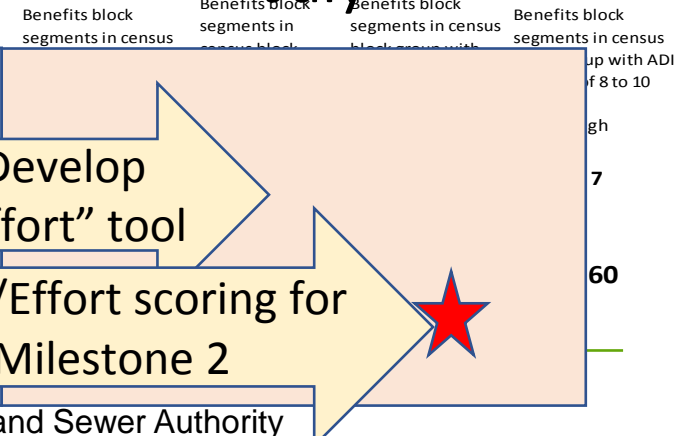


May

June

Area Deprivation Index

July





Value / Effort Framework Assessment



Calculation of “Value” and “Effort” Assessment for Each Project

Renewable Natural Gas			
	Carbon	Equity	Resilience
Score	100	33	100
Weight	33%	33%	33%

Bryant Street Solar			
	Carbon	Equity	Resilience
Score	20	56	75
Weight	33%	33%	33%

Project “Value” Score

77

50

*Shown as an example only

Example Project “Effort” Measures (to be quantified for each project)

Measure

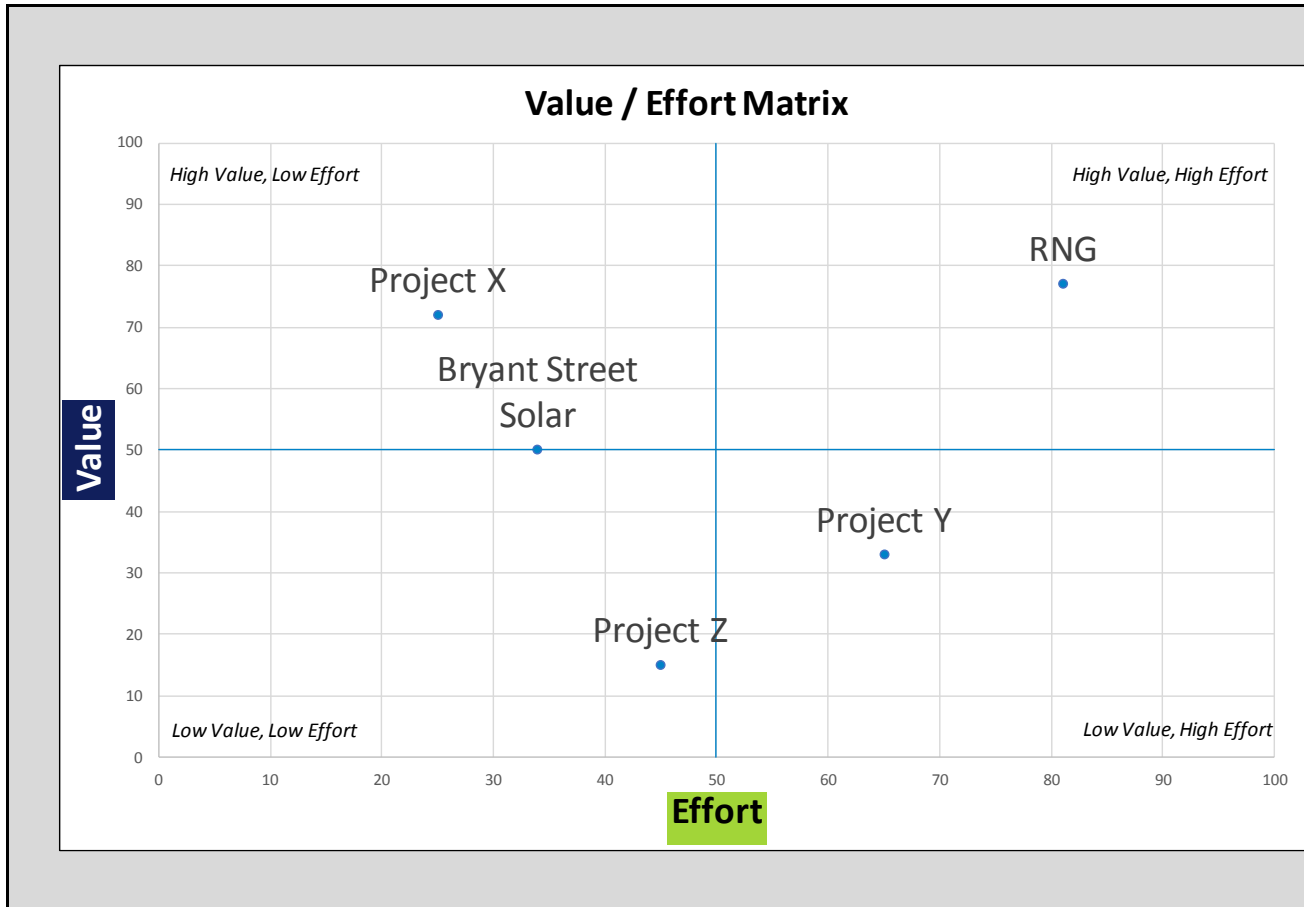
1. Project introduces regulatory risk
2. Effort needed to fund project
3. Project complexity
4. Time to implement project

Metric

- [low/medium/high chance]
- [low/medium/high effort]
- [low/medium/high complexity]
- [short/medium/long time]



Value/Effort Matrix Output (Example)



Project Scoring Table		
<i>Project Name</i>	<i>Value Score</i>	<i>Effort Score</i>
RNG	77	81
Bryant Street Solar	50	34
Project X	72	25
Project Y	33	65
Project Z	15	45



Stakeholder Advocacy / Policy Approach

Next Steps and Upcoming Briefings



Next Steps & Upcoming Briefings



- ▼ Brief EQ & Ops Committee (July 15)
- ☐ Board workshop to align on projects (TBD)
- ☐ Brief Stakeholder Alliance (TBD)
- ☐ Agency (DOE, HUD, etc.) workshops aligned with upcoming Notice of Funding Opportunities (NOFOs)
- ☐ Planning for Congressional Briefing
- ☐ Draft letter to White House

Do a broad scan to incorporate other project opportunities across DC Water



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

ACTION REQUESTED

**GOODS AND SERVICES CONTRACT AWARD
SODIUM BISULFITE
(Joint Use)**

Approval to award and fund a contract for the supply and delivery of sodium bisulfite in the amount of \$2,910,000.00 for the base and both option years.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: PVS Chemical Solutions, Inc. 10900 Harper Avenue Detroit, MI 48213	SUBS: N/A	PARTICIPATION: N/A
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DESCRIPTION AND PURPOSE

Base Period Contract Value:	\$910,000.00
Base Period Contract Dates:	10-01-2021—09-30-2022
No. of Option Years in Contract:	2
Total Option Year 1-2 Value:	\$2,000,000.00
Option Year 1-2 Dates:	10-01-2022—09-30-2024
Total Number of Proposal	2

Purpose of the Contract:

This contract is to supply and deliver sodium bisulfite to the Department of Wastewater Treatment (DWT) at DC Water. Sodium bisulfite removes residual chlorine from effluent water, and its use is required to meet environmental standards.

Contract Scope:

To ensure supply security, sodium bisulfite was awarded to two companies with independent supply chains. 70% of DC Water’s requirements was awarded to PVS Chemical (this request), and 30% to Southern Ionics.

Option years will be exercised annually.

Supplier Selection:

Two companies responded to an RFP intended to solicit proposal for supply and delivery of new sodium bisulfite requirements. Both suppliers are incumbent of current sodium bisulfite to DC Water. DC Water negotiated with two suppliers. The final selection is based on technical evaluation and pricing.

PROCUREMENT INFORMATION


Contract Type:	Good and Services	Award Based On:	Best Value
Commodity:	Sodium Bisulfite	Contract Number:	10081
Contractor Market:	Open Market with Goals for DBE and WBE Participation		


BUDGET INFORMATION

Funding:	Operating	Department:	Wastewater Treatment
Project Area:	Blue Plains	Department Head:	Aklile Tesfaye

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	43.44%	\$1,264,104.00
Washington Suburban Sanitary Commission	41.95%	\$1,220,745.00
Fairfax County	9.79%	\$284,889.00
Loudoun Water	4.23%	\$123,093.00
Potomac Interceptor	0.59%	\$17,169.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$2,910,000.00


Aklile Tesfaye Date
VP of Wastewater Operation


Dan Bae Date
VP of Procurement and Compliance

Dan Bae
C=US, E=dan.bae@dcwater.com,
O=District of Columbia Water and Sewer
Authority, OU=VP of Procurement &
Compliance, CN=Dan Bae
2021.08.24 10:54:19 AM WWP

Matthew T. Brown Date
CFO and EVP of Finance and Procurement

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
SODIUM BISULFITE**

(Joint Use)

Approval to award and fund a contract for the supply and delivery of sodium bisulfite in the amount of \$1,290,000.00 for the base and both option years.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Southern Ionics Inc. 579 Commerce Street West Point, MS 39773	SUBS: N/A	PARTICIPATION: N/A
--	---------------------	------------------------------

DESCRIPTION AND PURPOSE

Base Period Contract Value:	\$390,000.00
Base Period Contract Dates:	10-01-2021—09-30-2022
No. of Option Years in Contract:	2
Total Option Year 1-2 Value:	\$900,000.00
Option Year 1-2 Dates:	10-01-2022—09-30-2024
Total Number of Proposal	2

Purpose of the Contract:

This contract is to supply and deliver sodium bisulfite to the Department of Wastewater Treatment (DWT) at DC Water. Sodium bisulfite removes residual chlorine from effluent water, and its use is required to meet environmental standards.

Contract Scope:

To ensure supply security, sodium bisulfite contracts will be awarded to two companies with independent supply chains. 30% of DC Water’s requirements will be awarded to Southern Ionics (this request), and 70% to PVS Chemicals.

Option years will be exercised annually.

Supplier Selection:

Two companies responded to an RFP intended to solicit proposal for supply and delivery of new sodium bisulfite requirements. Both suppliers are incumbent of current sodium bisulfite to DC Water. DC Water negotiated with two suppliers. The final selection is based on technical evaluation and pricing.

PROCUREMENT INFORMATION


Contract Type:	Good and Services	Award Based On:	Best Value
Commodity:	Sodium Bisulfite	Contract Number:	10082
Contractor Market:	Open Market with goals for DBE and WBE Participation		


BUDGET INFORMATION

Funding:	Operating	Department:	Wastewater Treatment
Project Area:	Blue Plains	Department Head:	Aklile Tesfaye

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	43.44%	\$560,376.00
Washington Suburban Sanitary Commission	41.95%	\$541,155.00
Fairfax County	9.79%	\$126,291.00
Loudoun Water	4.23%	\$54,567.00
Potomac Interceptor	0.59%	\$7,611.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$1,290,000.00

 6/23/21
 Aklile Tesfaye Date
 VP of Wastewater Operation


Dan Bae
 C=US; E=dan.bae@dcwater.com; O=District
 of Columbia Water and Sewer Authority;
 OU=VP of Procurement & Compliance;
 CN=Dan Bae
 20210624 10:33:34 -0400
 Dan Bae Date
 VP of Procurement and Compliance

 Matthew T. Brown Date
 CFO and EVP of Finance and Procurement

 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

**SODIUM HYPOCHLORITE
(Joint Use)**

Approval to award and fund a contract for the supply and delivery of sodium hypochlorite in the amount of \$11,260,000.00 for the base and both option years.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Kuehne Chemical Co. Inc. 86 N. Hackensack Ave. S. Kearny, NJ 07032	SUBS: N/A	PARTICIPATION: N/A
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DESCRIPTION AND PURPOSE

Base Period Contract Value:	\$3,650,000.00
Base Period Contract Dates:	10-01-2021 – 09-30-2022
No. of Option Years in Contract:	2
Total Option Year 1-2 Value:	\$7,610,000.00
Option Year 1-2 Dates:	10-01-2022 – 09-30-2024
Total Number of Proposal	2

Purpose of the Contract:

To supply and deliver sodium hypochlorite. Sodium hypochlorite is used for disinfection and odor control.

Contract Scope:

DC Water has an on-going need for sodium hypochlorite. At the Blue Plains Advanced Wastewater Treatment Facility, it is primarily used for outfall disinfection, but also to control biological growth on multimedia filters, and for odor control in the scrubbers.

Option years will be exercised annually.

Supplier Selection:

Two companies responded to an RFP intended to solicit proposal for supply and delivery of new sodium bisulfite requirements. Kuehne is incumbent of current sodium hypochlorite to DC water. Kuehne scored highest in the technical evaluation and offered the lowest unit price.

PROCUREMENT INFORMATION

Contract Type:	Goods and Services	Award Based On:	Best Value
Commodity:	Sodium Hypochlorite	Contract Number:	10084
Contractor Market:	Open Market with goals for DBE/WBE participation		

BUDGET INFORMATION

Funding:	Operating	Department:	Wastewater Treatment
Project Area:	Blue Plains AWTP	Department Head:	Aklile Tesfaye

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	43.44%	\$4,891,344.00
Washington Suburban Sanitary Commission	41.95%	\$4,723,570.00
Fairfax County	9.79%	\$1,102,354.00
Loudoun Water	4.23%	\$476,298.00
Other (PI)	0.59%	\$66,434.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$11,260,000.00

 / 6/23/21
 Aklile Tesfaye Date
 VP of Wastewater Operations

_____/_____
 Dan Bae Date
 VP of Procurement and Compliance

_____/_____
 Matthew T. Brown Date
 CFO and EVP of Finance and Procurement

_____/_____
 David L. Gadis Date
 CEO and General Manager

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

ACTION REQUESTED

ENGINEERING SERVICES

**Process Facilities Engineering Basic Ordering Agreement (BOA)
(Joint Use)**

Approval to execute an architectural and engineering services contract not to exceed \$6,000,000 for the contract period of three years plus two renewal periods of one year each. The renewal periods will be approved at DC Water’s sole discretion.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Ramboll Engineering, PC f/k/a O'Brien & Gere Engineers, PC 4201 Mitchellville Road, Suite 500 Bowie, MD 20716	SUBS: DBE Participation 28.0% WBE Participation 4.0% See Attachment A for list of DBE and WBE participants	PARTICIPATION:
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DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed: \$ 6,000,000
 Contract Time: 1,825 Days (5 Year, 0 Months)
 Anticipated Contract Start Date (NTP): 11/07/2021
 Anticipated Contract Completion Date: 11/06/2026
 Proposal Submission Date: 04/26/2021
 Number of Proposals Received: 6
 Other Firms Submitting Proposals:
 Black & Veatch Corporation
 Jacobs Engineering Group, Inc.
 Johnson, Mirmiran & Thompson
 PRIME AE Group, Inc.
 Remington & Vernick Engineers

Purpose of the Contract:

To provide professional architectural/engineering and related services for the DC Water Facilities on an as-needed basis through individually negotiated task orders for vertical assets such as sewer, water and stormwater pump stations, and water storage tanks. Engineering services will also be provided for the existing inflatable dams and associated Combined Sewer Outfall structures.

Contract Scope:

- Work will be accomplished under a series of definitive Task Orders. Each Task Order will identify the scope of work, deliverables, compensation, and schedule for performing the task. The Task Orders will provide engineering and technical studies, concept designs, final designs and services during bid and construction phases as needed.
- Professional services are anticipated in the following disciplines and support services: civil, structural, architectural, mechanical process, Heating Ventilation and Air Conditioning, instrumentation and control, electrical and support activities such as value engineering studies, preparation of standard specifications, surveys, and subsurface investigations.
- Projects will include upgrades and additions to various DC Water facilities, including vertical assets such as sewer, water and stormwater pump stations, and water storage tanks. Engineering services will also be provided for the existing inflatable dams and associated CSO structures.

Federal Grant Status:

- This Contract is not eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION

Contract Type:	Lumpsum & Cost-Plus Fixed Fee	Award Based On:	Highest Ranking Score
Commodity:	Engineering Design Services	Contract Number:	DCFA #513
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Wastewater Engineering
Service Area:	Water, Sanitary Sewer, Storm Water, CSO	Department Head:	David Parker
Project:	EK, EQ, OB, NG, PM, RH, RU		

ESTIMATED USER SHARE INFORMATION

EK - MJ21

User	Share %	Dollar Amount
District of Columbia	49.80%	\$ 463,140.00
Washington Suburban Sanitary Commission	29.40%	\$ 273,420.00
Fairfax County	14.70%	\$ 136,710.00
Loudoun County & Potomac Interceptor	6.10%	\$ 56,730.00
Total Estimated Dollar Amount	100.00%	\$ 930,000.00

EQ, RH - MJ14

User	Share %	Dollar Amount
District of Columbia	89.70%	\$ 203,619.00
Washington Suburban Sanitary Commission	10.30%	\$ 23,381.00
Fairfax County	8.33%	\$
Loudoun County & Potomac Interceptor	3.67%	\$
Total Estimated Dollar Amount	100.00%	\$ 227,000.00

NG, OB, PM, RH, RU - CAPM

User	Share %	Dollar Amount
District of Columbia	100.00%	\$4,843,000.00
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
Total Estimated Dollar Amount	100.00%	\$4,843,000.00

Total Combined Allocation

User	Share %	Dollar Amount
District of Columbia	91.83%	\$5,509,759.00
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	4.95%	\$ 296,801.00
Fairfax County	2.28%	\$ 136,710.00
Loudoun County & Potomac Interceptor	0.94%	\$ 56,730.00
Total Estimated Dollar Amount	100.00%	\$6,000,000.00

_____/_____
Leonard R. Benson, SVP Date
CIP Project Delivery

_____/_____
Matthew T. Brown Date
CFO and EVP
Finance and Procurement

_____/_____
Dan Bae, VP Date
Procurement and Compliance

_____/_____
David L. Gadis Date
CEO and General Manager

**A/E SERVICES DCFA-513:
Process Facilities Engineering Basic Ordering Agreement (BOA)
Attachment A- Subcontractor Participation**

SUBCONSULTANT:		PARTICIPATION:
Sigma Associates, Inc. Detroit, MI 48226	DBE	14.0%
C.C.Johnson & Malhotra, PC (CCJM) Rockville, MD 20850	DBE	5.0%
Delon Hampton & Assoc. (DHA) Washington, DC 20001	DBE	3.0%
Savin Engineers, PC Pleasantville, NY 10570	DBE	3.0%
InterAgency, Inc. Washington DC, 20003	DBE	2.0%
Soil and Land Use Technology, Inc. (SaLUT) Washington, DC 20002	DBE	1.0%
Albrecht Engineering, Inc. Baltimore, MD 21224	WBE	3.0%
Phoenix Engineering, Inc. Parkton, MD 21120	WBE	1.0%

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

ACTION REQUESTED

CONSTRUCTION CONTRACT:

**Potomac River Tunnel – Contract A, Advanced Utility Construction
(Joint Use)**

Approval to execute a construction contract for \$ 13,943,834.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Anchor Construction Corporation 2254 25 th Place, NE Washington, DC 20018	SUBS: DBE Participation 34.7% WBE participation 9.3% See Attachment A for list of DBE and WBE participants	PARTICIPATION:
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This project award is based on Best Value. The proposals were evaluated based on Qualifications and Technical Approach (45% weight) and Price (55% weight). Based on the evaluation of the proposals, the recommendation of award is to the proposal with the highest overall score.

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed:	\$ 13,943,834.00
Contract Time:	550 Days (1 Year, 6 Months)
Anticipated Contract Start Date (NTP):	09-15-2021
Anticipated Contract Completion Date:	03-19-2023
Bid Opening Date:	06-15-2021
Bids Received:	2
Other Bids Received	
Fort Myer Construction Corporation	\$ 15,187,086.00

Purpose of the Contract:

The purpose of this Project is to prepare the future Potomac River Tunnel project sites by installing necessary infrastructure in advance of the tunnel. The construction of a high voltage electrical duct bank will occur along Independence Avenue SW from West Potomac Park, near Ohio Drive SW, eastward to 14th Street SW. The Project also includes the construction of electrical duct banks at five (5) sites along the future alignment of the Potomac River Tunnel. All duct banks shall be constructed in accordance with Pepco's standards and specifications.

This work is required by a Consent Decree.

Contract Scope:

- Installation of electrical duct bank and manholes
- Trenchless crossings at select locations
- Installation of erosion and sediment control
- Excavation and dewatering along the duct bank alignment
- Implementation of traffic control
- Site, paving, and surface restoration

Federal Grant Status:

- The Construction contract may be funded in part by prior Congressional appropriations for CSO projects, to the extent such appropriations are, or become, available.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	Award Based On:	Best Value
Commodity:	Construction	Contract Number:	200120
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	DC Clean Rivers
Service Area:	Combined Sewer	Department Head:	Carlton Ray
Project:	CZ		

ESTIMATED USER SHARE INFORMATION

CZ-LTCP

User	Share %	Dollar Amount
District of Columbia	92.90%	\$11,521,135.96
Federal Funds	0.00%	\$0.00
Washington Suburban Sanitary Commission	5.54%	\$687,051.59
Fairfax County	1.01%	\$125,256.70
Loudoun County & Potomac Interceptor	0.55%	\$68,209.09
Total Estimated Dollar Amount	100.00%	\$12,401,653.34

CZ-CAPM (DC Only)

User	Share %	Dollar Amount
District of Columbia	100.00%	\$1,542,180.66
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%	\$1,542,180.66

Total Combined Allocation

User	Share %	Dollar Amount
District of Columbia	93.69%	\$13,063,316.62
Federal Funds	0.00%	\$0.00
Washington Suburban Sanitary Commission	4.93%	\$687,051.59
Fairfax County	0.90%	\$125,256.70
Loudoun County & Potomac Interceptor	0.49%	\$68,209.09
Total Estimated Dollar Amount	100.00%	\$13,943,834.00

* Note: These allocations are approximate. Under the terms of the IMA, capital costs are allocated among the users based on facilities which are determined to be multi-jurisdictional use facilities (MJUF). Final determination of MJUF facilities is pending and final cost will be allocated accordingly based on that determination.

_____/_____
Leonard R. Benson, SVP Date
CIP Project Delivery

_____/_____
Matthew T. Brown Date
CFO and EVP
Finance and Procurement

_____/_____
Dan Bae, VP Date
Procurement and Compliance

_____/_____
David L. Gadis Date
CEO and General Manager

**CONSTRUCTION CONTRACT 200120:
Potomac River Tunnel – Contract A, Advanced Utility Construction
Attachment A- Subcontractor Participation**

SUBCONSULTANT:	PARTICIPATION:	
G&C Equipment Gardena, CA	DBE	13.7%
Metro Paving Hyattsville, MD	DBE	9.5%
WR Sewage and Excavation Fort Washington, MD	DBE	6.9%
JJ Prime Services Washington, DC	DBE	3.3%
Kim's Engineering Beltsville, MD	DBE	0.9%
MRB Enterprise Clinton, MD	DBE	0.3%
Monumental Concrete Washington, DC	DBE	0.1%
Sandra's Supplies Bowie, MD	WBE	6.3%
Tina Boyd Washington, DC	WBE	1.2%
Parris Construction Baltimore, MD	WBE	1.2%
Empire Landscaping Silver Spring, MD	WBE	0.3%
Applied Archaeology Annapolis, MD	WBE	0.1%
RAM Construction Olney, MD	WBE	0.1%
Resource Industries Washington, DC	WBE	0.1%

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

ACTION REQUESTED

ENGINEERING SERVICES

**Linear Design, Basic Ordering Agreement (BOA)
(Joint Use)**

Approval to execute an architectural and engineering services contract not to exceed \$7,000,000.00 for the contract period of three years plus two renewal periods of one year each. The renewal periods will be approved at DC Water's sole discretion.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Whitman, Requardt & Associates, LLP 801 South Caroline Street Baltimore, MD 21231	C. C. Johnson & Malhotra, P.C. Washington, DC 20036	DBE 11.0%
	Bryant Associates, Inc. Boston, MA 02114	DBE 7.0%
	InterAgency, Inc. Washington, DC 20003	DBE 6.0%
	Chesapeake Environmental Management, Inc. Bel Air, MD 21014	DBE 2.0%
	Essential Corrosion Protection Columbia, MD 21046	DBE 2.0%
	The Robert B. Balter Company Owings Mills, MD 21117	WBE 2.0%
	Phoenix Engineering, Inc. Parkton, MD 21120	WBE 1.0%
	Albrecht Engineering Baltimore, MD 21224	WBE 1.0%
	Accurate Infrastructure Data, Inc. Baltimore, MD 21237	2.0%

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed: \$ 7,000,000.00
 Contract Time: 1,825 Days (5 Year, 0 Months)
 Anticipated Contract Start Date (NTP): 10/11/2021
 Anticipated Contract Completion Date: 10/10/2026
 Bid Opening Date: 04/01/2021
 Bids Received: 15

Other Bids Received

A. Morton Thomas and Associates, Inc.	KCI Technologies, Inc.
AB Consultants, Inc.	Peer Consultants PC
Black & Veatch Corporation	Ramboll Engineering P.C.
Delon Hampton & Associates, Chartered	RK&K
Dewberry Engineers Inc.	Remington & Vernick Engineers
Greeley& Hansen	Stantec Consulting Services
Johnson, Mirmiran & Thompson, Inc.	Volkert, Inc.

Purpose of the Contract:

Provide engineering services for the design of DC Water linear assets throughout the District of Columbia and the surrounding counties of Prince George’s, Montgomery, Fairfax, and Loudoun.

Contract Scope:

The scope of work will include:

- Civil engineering design,
- Structural engineering design,
- Survey,
- Subsurface utility engineering (SUE),
- Geotechnical and/or geophysical investigation,
- Corrosion control design
- Environmental design & permitting
- Engineering services during bidding,
- Engineering services during construction, and
- Other engineering services as needed.

Federal Grant Status:

- This Contract is not eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION

Contract Type:	Lump Sum & Cost-Plus Fix Fee	Award Based On:	Highest Ranking Score
Commodity:	Engineering Design Services	Contract Number:	DCFA #509
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Engineering and Technical Services
Service Area:	Water, Sewer, CSO	Department Head:	Mark Babbitt (Acting)
Project:	F6, FT, RC, QG, JZ, LZ, IL, MQ		

***ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 7,000,000.00
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
Total Estimated Dollar Amount	100.00%	\$ 7,000,000.00

* Work under this contract will be assigned as needed under specific task orders. It is anticipated that Joint Use work may be assigned during the contract period. As tasks are developed for work associated with specific facilities and costs are developed, the individual users will be notified and billed according to agreed cost-sharing.

_____/_____
Leonard R. Benson, SVP Date
CIP Project Delivery

_____/_____
Matthew T. Brown Date
CFO and EVP
Finance and Procurement

_____/_____
Dan Bae, VP Date
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

ENGINEERING SERVICES:

**Linear Design, Basic Ordering Agreement (BOA)
(Joint Use)**

Approval to execute an architectural and engineering services contract not to exceed \$7,000,000.00 for the contract period of three years plus two renewal periods of one year each. The renewal periods will be approved at DC Water's sole discretion.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Greeley & Hansen 8403 Colesville Road, Suite 1100 Silver Spring, MD 20910 <u>Headquarters</u> Chicago, IL 60606	C. C. Johnson & Malhotra, P.C. Washington, DC 20036	DBE 8.0%
	JCK Underground, Inc. Boston, MA 02205	DBE 6.0%
	Environ-Civil Engineering, Ltd Columbia, MD 21046	DBE 5.0%
	SZ PM Consultant, Inc. Washington, DC 20036	DBE 4.0%
	InterAgency, Inc. Washington, DC 20003	DBE 2.0%
	Savin Engineers, PC Pleasantville, NY 10570	DBE 1.0%
	Essential Corrosion Protection Columbia, MD 21046	DBE 1.0%
	Hayat Brown, LLC Washington, DC 20032	DBE 1.0%
	Albrecht Engineering, Inc. Baltimore, MD 21224	DBE 1.0%
	Coastal Resources, Inc. Annapolis, MD 21401	WBE 1.0%
	EHT Traceries, Inc. Washington, DC 20001	WBE 1.0%
	Commonwealth Heritage Group, Inc. Alexandria, VA 22312	WBE 1.0%
	Precision Measurements, Inc. Virginia Beach, VA 23452	WBE 1.0%
	PRIME AE Group, Inc. Baltimore, MD 21228	2.0%
J W Marshall and Assoc Fallston, MD 21047	1.0%	

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed:	\$ 7,000,000.00
Contract Time:	1,825 Days (5 Year, 0 Months)
Anticipated Contract Start Date (NTP):	10/11/2021
Anticipated Contract Completion Date:	10/10/2026
Bid Opening Date:	04/01/2021
Bids Received:	15

Other Bids Received

A. Morton Thomas and Associates, Inc.	Peer Consultants PC
AB Consultants, Inc.	Ramboll Engineering P.C.
Black & Veatch Corporation	RK&K
Delon Hampton & Associates, Chartered	Remington & Vernick Engineers
Dewberry Engineers Inc.	Stantec Consulting Services
Johnson, Mirmiran & Thompson, Inc.	Volkert, Inc.
KCI Technologies, Inc.	Whitman, Requardt & Associates, LLP

Purpose of the Contract:

Provide engineering services for the design of DC Water assets throughout the District of Columbia and the surrounding counties of Prince George's, Montgomery, Fairfax, and Loudoun.

Contract Scope:

The scope of work will include:

- Civil engineering design,
- Structural engineering design,
- Survey,
- Subsurface utility engineering (SUE),
- Geotechnical and/or geophysical investigation,
- Corrosion control design
- Environmental design & permitting
- Engineering services during bidding,
- Engineering services during construction, and
- Other engineering services as needed.

Federal Grant Status:

- This Contract is not eligible for Federal grant funding assistance

PROCUREMENT INFORMATION

Contract Type:	Lump Sum & Cost-Plus Fix Fee	Award Based On:	Highest Ranking Score
Commodity:	Engineering Design Services	Contract Number:	DCFA #510
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Engineering and Technical Services
Service Area:	Water, Sewer, CSO	Department Head:	Mark Babbitt (Acting)
Project:	F6, FT, RC, QG, JZ, LZ, IL, MQ		

***ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 7,000,000.00
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
Total Estimated Dollar Amount	100.00%	\$ 7,000,000.00

* Work under this contract will be assigned as needed under specific task orders. It is anticipated that Joint Use work may be assigned during the contract period. As tasks are developed for work associated with specific facilities and costs are developed, the individual users will be notified and billed according to agreed cost-sharing.

_____/_____
Leonard R. Benson, SVP
CIP Project Delivery
Date

_____/_____
Matthew T. Brown
CFO and EVP
Finance and Procurement
Date

_____/_____
Dan Bae, VP
Procurement and Compliance
Date

_____/_____
David L. Gadis
CEO and General Manager
Date

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

ACTION REQUESTED

ENGINEERING SERVICES SUPPLEMENTAL AGREEMENT:

**DC Clean Rivers Project
Program Management for Professional Engineering Services
(Joint Use)**

Approval to execute Supplemental Agreement No. 1 for \$52,781,983. The modification exceeds the General Manager's approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Greeley and Hansen LLC 5301 Shawnee Road Suite 400 Alexandria, VA 22312	DBE/WBE/CBE Eligible Amounts: Tunnel and Shared Services: \$ 47,039,046 DBE \$ 14,778,955 WBE \$ 2,111,279 Green Infrastructure Services: \$ 5,742,937 CBE \$ 2,871,468 See Attachment A for list of DBE/WBE/CBE participants	28.0% 4.0% 50.0%
<u>Headquarters</u> Chicago, IL 60606		

DESCRIPTION AND PURPOSE

Original Contract Value:	\$75,702,068
Value of this Supplemental Agreement:	\$52,781,983
Cumulative SA Value, including this SA:	\$52,781,983
Current Contract Value, Including this SA:	\$128,484,051
Original Contract Time:	1,095 Days (3 Years, 0 Months)
Time extension, this SA:	730 Days
Total SA contract time extension:	730 Days (2 Years, 0 Months)
Contract Start Date:	10-01-2018
Contract Completion Date:	09-30-2023

Purpose of the Contract:

The purpose of the program management services is to assist DC Water and Sewer Authority in the continuing implementation of its DC Clean Rivers Project (DCCR) to control combined sewer overflows (CSOs) to the Anacostia and Potomac Rivers and Rock Creek.

This work is required by a Consent Decree.

Original Contract Scope:

- Provide services relating to program management to ensure attainment of all Consent Decree milestones. These include program administration, hydraulic design, public and third-party outreach, environmental document preparation, regulatory assistance, property acquisition, agency coordination and permitting, risk management, cost estimating, budget and financial planning, design and construction oversight, and establishing preliminary design guidelines.

Previous Supplemental Agreement Scope:

- There are no previous supplemental agreements.

Current Supplemental Agreement Scope:

- Continuation of original contract scope for two option years as allowed by contract.
- Construction oversite, startup, and commissioning of Northeast Boundary Tunnel.
- Construction oversite for CSO 025/026 Sewer Separation in Georgetown.

- Post Construction Monitoring of Anacostia River CSO controls per National Pollutant Discharge Elimination System (NPDES) Permit requirements.
- Prepare request for proposal, easements and obtain permits for Potomac River Tunnel.
- Environmental compliance, planning and preliminary designs or Rock Creek CSO Storage Facility.
- Planning, permitting and request for proposal preparation for Rock Creek Green Infrastructure.

Future Supplemental Agreement Scope:

- None planned at this time.

PROCUREMENT INFORMATION

Contract Type:	Cost Plus Fixed Fee	Award Based On:	Highest Ranking Score
Commodity:	Professional Services	Contract Number:	DCFA #493
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Clean Rivers
Service Area:	Combined Sewer Overflow	Department Head:	Carlton M. Ray
Project:	CY, CZ, DZ		

ESTIMATED USER SHARE INFORMATION

CY – Allocation (LTCP- Northeast Boundary Tunnel: CSO 019 to W Street)

User	Share %	Dollar Amount
District of Columbia	92.90%	\$6,798,380.62
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	5.54%	\$ 405,414.73
Fairfax County	1.01%	\$ 73,911.35
Loudoun County & Potomac Interceptor	0.55%	\$ 40,248.76
Total Estimated Dollar Amount	100.00%	\$7,317,955.46

CY – Allocation (CAPM Div. J- Northeast Boundary Tunnel: W Street to R Street)

User	Share %	Dollar Amount
District of Columbia	100.00%	\$8,252,162.54
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
Total Estimated Dollar Amount	100.00%	\$8,252,162.54

CY – Allocation (LTEM Shared Services)

User	Share %	Dollar Amount
District of Columbia	94.91%	\$7,560,241.13
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	3.97%	\$ 316,238.09
Fairfax County	0.71%	\$ 56,556.43
Loudoun County & Potomac Interceptor	0.41%	\$ 32,659.35
Total Estimated Dollar Amount	100.00%	\$7,965,695.00

CZ – Allocation (LTCP – Potomac River Tunnel)

User	Share %	Dollar Amount
District of Columbia	92.90%	\$13,560,258.12
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	5.54%	\$ 808,652.64
Fairfax County	1.01%	\$ 147,425.84
Loudoun County & Potomac Interceptor	0.55%	\$ 80,281.40
Total Estimated Dollar Amount	100.00%	\$14,596,618.00

CZ – Allocation (CAPM – Potomac CSO 025/026 Sewer Separation)

User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 2,317,567.00
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
Total Estimated Dollar Amount	100.00%	\$ 2,317,567.00

DZ – Allocation (CAPM – Rock Creek Storage and Green Infrastructure)

User	Share %	Dollar Amount
District of Columbia	100.00%	\$12,331,985.00
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
Total Estimated Dollar Amount	100.00%	\$12,331,985.00


Total Combined Allocation

User	Share %	Dollar Amount
District of Columbia	96.28%	\$50,820,594.41
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	2.90%	\$ 1,530,305.46
Fairfax County	0.53%	\$ 277,893.62
Loudoun County & Potomac Interceptor	0.29%	\$ 153,189.51
Total Estimated Dollar Amount	100.00%	\$52,781,983.00

Note: These allocations are approximate. Under the terms of the IMA, the capital costs associated with each joint use facility are to be split among the users in proportion to the peak flow each user is allocated. As tasks are assigned for work associated with specific facilities, costs will be allocated accordingly.

Leonard Benson Digitally signed by Leonard Benson
DN: cn=Leonard Benson, o=DC Water, ou,
email=lbenenson@dwater.com, c=US
Date: 2021.07.05 14:07:17 -04'00'

Leonard R. Benson, SVP Date
CIP Project Delivery

 Dan Bae
C=US, E=dan.bae@dwater.com,
O=District of Columbia Water and Sewer
Authority, OU=VP of Procurement &
Compliance, CN=Dan Bae
2021.07.06 16:06:15 -04'00'

Dan Bae, VP Date
Procurement & Compliance

_____/_____
Matthew T. Brown Date
CFO and EVP
Finance & Procurement

_____/_____
David L. Gadis Date
CEO & General Manager

**ENGINEERING SERVICES SUPPLEMENTAL AGREEMENT
CONTRACT DCFA#493
PROGRAM MANAGEMENT FOR PROFESSIONAL ENGINEERING SERVICES
ATTACHMENT A- SUBCONTRACTOR LISTING
PARTICIPATION AND DOLLAR AMOUNT**

SUBCONSULTANT:		PARTICIPATION:	AMOUNT:
<u>DBE/WBE Applicable to Tunnel and Shared Services:</u>			
JCK Underground Boston, MA 02205	DBE	7.93%	\$3,730,573.00
Shrewsbury & Associates, LLC Indianapolis, IN 46256	DBE	4.34%	\$2,043,525.00
Mckissack & Mckissack Washington, DC 20001	DBE	4.06%	\$1,908,761.00
Delon Hampton & Associates Washington, DC 20001	DBE	4.31%	\$2,027,275.00
E2CR, Inc Baltimore, MD 21227	DBE	3.96%	\$1,863,356.00
Interagency Washington, DC 20003	DBE	1.32%	\$620,046.00
MNK Consultant Woodbridge, VA 22192	DBE	1.19%	\$559,286.00
SZ PM Consultants, Inc Washington, DC 20036	DBE	<u>0.89%</u>	<u>\$418,111.00</u>
Subtotal DBE		28.00%	\$13,170,933.00
DP Consultants Washington, DC 20005	WBE	1.40%	\$657,943.00
J-Dos Internationale Washington, DC 20011	WBE	1.85%	\$871,196.00
LS Caldwell & Associates, Inc. Washington, DC 20011	WBE	<u>0.75%</u>	<u>\$352,423.00</u>
Subtotal WBE		4.00%	\$1,881,562.00
<u>CBE Applicable to GI-Dedicated Services:</u>			
Delon Hampton & Associates Washington, DC	CBE	26.58%	\$1,526,480.00
Mckissack & Mckissack Washington, DC 20001	CBE	15.65%	\$899,011.00
Interagency Washington, DC 20003	CBE	<u>7.77%</u>	<u>\$445,978.00</u>
Subtotal CBE		50.00%	2,871,469.00

SUBCONSULTANT	DBE/WBE/CBE	PARTICIPATION	AMOUNT
<u>Non-DBE/WBE/CBE Subconsultants</u>			
AECOM Arlington, VA	N/A	(1)	(1)
CSL Services, Inc Pennsauken, NJ	N/A	(1)	(1)
Hazen & Sawyer Fairfax, VA	N/A	(1)	(1)
Infrastructure Project Services Vienna, VA	N/A	(1)	(1)
JA Underground San Francisco, CA	N/A	(1)	(1)
Johnson, Miriam & Thompson Hunt Valley, MD	N/A	(1)	(1)
Limno-Tech, Inc Washington, DC	N/A	(1)	(1)
Mueser Rutledge Consulting Engineers Washington, DC	N/A	(1)	(1)
Rice Associates Manassas, VA	N/A	(1)	(1)
Stantec Consulting Laurel, MD	N/A	(1)	(1)
Wallace, Roberts & Todd Philadelphia, PA	N/A	(1)	(1)

Note (1) The level of participation is dependent on the nature of services required to implement the project.

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

ACTION REQUESTED

**CONSTRUCTION CONTRACT CHANGE ORDER:
Miscellaneous Facilities Upgrades – Phase 6
(Joint Use)**

Approval to execute Change Order No. 03 for \$800,000.00. The cumulative modifications will exceed the General Manager’s approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Ulliman Schutte Construction, LLC 7615 Standish Place Rockville, MD 20855	Stocks General Contractors Fredericksburg, VA DBE	6.9%
<u>Headquarters</u> Miamisburg, OH 45342	Monumental Concrete Washington D.C. DBE	2.0%
	AB Consultants Lanham, MD DBE	1.9%
	Elite Hauling Clifton, MD WBE	1.0%

DESCRIPTION AND PURPOSE

Original Contract Value:	\$27,090,000.00
Value of this Change Order	\$ 800,000.00
Cumulative CO Value, including this CO:	\$ 2,460,000.00
Current Contract Value, including this CO:	\$29,550,000.00
Original Contract Time:	1500 Days (4 Years, 1 Months)
Time extension, this CO:	0 Days
Total CO contract time extension:	0 Days
Contract Start Date (NTP):	04-01-2019
Contract Completion Date:	05-11-2023
Cumulative CO % of Original Contract:	9.08%
Contract completion %:	34.%

Purpose of the Contract:

DC Water has an urgent need to have a contractor available to perform emergency and non-emergency repairs on existing process equipment which is beyond routine, preventive, and corrective maintenance to avoid potential violations of its NPDES permit.

Original Contract Scope:

- Modify and upgrade influent screening equipment at Blue Plains
- “O” Street Pumping Station heating and ventilation reinstatement
- Replacement of nitrification process electrical equipment
- Implementation of Sync Check on existing switchgear secondary main breakers and tie breakers and replacement of two motor control centers in Chlorine Building
- Specialized Services as per Task Scope.
- Time and Material work on emergency and non-emergency Task Work Orders.

Previous Change Order Scope:

- Urgent structural repairs for the West Grit Effluent Channel to address structural integrity safety concerns.

Current Change Order Scope:

- In exchange for easements on Joint Base Anacostia Bolling (JBAB) for the DC Clean Rivers Blue Plains Tunnel project, DC Water agreed to construct sidewalks and appurtenances on JBAB. This Contract will execute the Work as a Change Order.

Federal Grant Status:

- Construction Contract is not eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION			
Contract Type:	Fixed Price	Award Based On:	Lowest responsive, responsible bidder
Commodity:	Construction	Contract Number:	170180
Contractor Market:	Open Market		

BUDGET INFORMATION			
Funding:	Capital	Department:	Wastewater Engineering
Service Area:	Wastewater, CSO	Department Head:	David Parker
Project:	CY, FS		

ESTIMATED USER SHARE INFORMATION

CY – Anacostia LTCP Allocation

User	Share %	Dollar Amount
District of Columbia	92.90%	\$427,562.96
Washington Suburban Sanitary Commission	5.54%	\$25,497.30
Fairfax County	1.01%	\$4,648.42
Loudoun County & Potomac Interceptor	0.55%	\$2,531.32
Total Estimated Dollar Amount	100.00%	\$460,240.00

FS – Wastewater Treatment Allocation

User	Share %	Dollar Amount
District of Columbia	41.22%	\$140,049.07
Washington Suburban Sanitary Commission	45.84%	\$155,745.98
Fairfax County	8.38%	\$28,471.89
Loudoun County & Potomac Interceptor	4.56%	\$15,493.06
Total Estimated Dollar Amount	100.00%	\$339,760.00

Total Combined Allocation

User	Share %	Dollar Amount
District of Columbia	70.95%	\$567,612.03
Federal Funds	0.00%	\$0.00
Washington Suburban Sanitary Commission	22.66%	\$181,243.28
Fairfax County	4.14%	\$33,120.31
Loudoun County & Potomac Interceptor	2.25%	\$18,024.38
Total Estimated Dollar Amount	100.00%	\$800,000.00

Leonard Benson

Digitally signed by Leonard Benson
 DN: dc=com, dc=dcwasa, ou=WASA
 Users, ou=Engineering, cn=Leonard
 Benson,
 email=Leonard.Benson@dcwater.com
 Date: 2021.07.06 16:26:03 -04'00'

Leonard R. Benson, SVP
 CIP Project Delivery

Date



Dan Bae
 C=US, E=dan.bae@dcwater.com,
 O=District of Columbia Water and
 Sewer Authority, OU=VP of
 Procurement & Compliance, CN=Dan
 Bae
 Date: 2021.07.07 08:48:44 -04'00'

Dan Bae, VP
 Procurement and Compliance

Date

Matthew T. Brown
 CFO and EVP
 Finance and Procurement

Date

David L. Gadis
 CEO and General Manager

Date

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

ACTION REQUESTED

CONSTRUCTION CONTRACT:

**Miscellaneous Facilities Upgrade – Phase 7
(Joint Use)**

Approval to execute a construction contract for \$ 36,301,600.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: American Contracting Environmental Services, Inc. 10330 Old Columbia Road, Suite 102 Columbia, MD 21046	SUBS: DBE Participation 32.1% WBE Participation 6.0% See Attachment A for list of DBE and WBE participants	PARTICIPATION:
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This project award is based on Best Value. The proposals were evaluated based on Qualifications and Technical Approach (50% weight) and Price (50% weight). Based on the evaluation of the proposals, the recommendation of award is to the proposal with the highest overall score.

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed:	\$ 36,301,600.00
Contract Time:	1500 Days (4 Year, 1 Months)
Anticipated Contract Start Date (NTP):	10/25/2021
Anticipated Contract Completion Date:	12/03/2025
Bid Opening Date:	02/03/2021
Bids Received:	3
Other Bids Received	
Ulliman Schutte Construction	\$ 33,517,600.00
W M Schlosser Co Inc	\$ 37,498,250.00

Purpose of the Contract:

DC Water has an urgent need to have a contractor available to perform emergency and non-emergency rehabilitation on existing process equipment which is beyond routine, preventive, and corrective maintenance to avoid potential violations of its National Pollutant Discharge Elimination System (NPDES) permit.

Contract Scope:

- Concrete and Construction Joint Rehabilitation at the Nitrification Sedimentation Basins
- Rehabilitation of Stormwater Pumping Station at 1st & D St., SW
- Inflatable Dams Interim Upgrades at Structures 14, 15, 15A, 16, 34 and 52
- Upgrades and rehabilitation at the Multimedia and Filtration and Disinfection Facility
- Primary Sludge and Scum Line Replacements at Blue Plains
- Upgrades to the 12th & Maine Ave Stormwater Pumping Station
- Miscellaneous Upgrades at Main and O Street Pumping Station
- Critical Upgrades to the Potomac Pumping Station
- Specialized Services as per Task Scope.
- Time and Material work on emergency and non-emergency Task Work Orders.

Federal Grant Status:

- This Construction Contract is not eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	Award Based On:	Request For Proposal, Best Value
Commodity:	Construction	Contract Number:	180060
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Department of Wastewater
Service Area:	Wastewater, Stormwater, Sanitary Sewer, CSO	Department Head:	David Parker
Project:	E8, HL, IY, J2, PE, XA, FQ, NG, A4, RH		

ESTIMATED USER SHARE INFORMATION

E8, HL, IY, J2, PE, XA – Blue Plains Allocation

User	Share %	Dollar Amount
District of Columbia	41.22%	\$ 6,866,839.80
Washington Suburban Sanitary Commission	45.84%	\$ 7,636,485.60
Fairfax County	8.38%	\$ 1,396,024.20
Loudoun County & Potomac Interceptor	4.56%	\$ 759,650.40
Total Estimated Dollar Amount	100.00%	\$16,659,000.00

FQ – MJ21

User	Share %	Dollar Amount
District of Columbia	89.70%	\$ 1,810,146.00
Washington Suburban Sanitary Commission	10.30%	\$ 207,854.00
Total Estimated Dollar Amount	100.00%	\$ 2,018,000.00

FQ, NG, RH – CAPM

User	Share %	Dollar Amount
District of Columbia	100.00%	\$11,339,500.00
Total Estimated Dollar Amount	100.00%	\$11,339,500.00

RH – MJ14

User	Share %	Dollar Amount
District of Columbia	49.80%	\$ 524,892.00
Washington Suburban Sanitary Commission	29.40%	\$ 309,876.00
Fairfax County	14.70%	\$ 154,938.00
Loudoun County & Potomac Interceptor	6.10%	\$ 64,294.00
Total Estimated Dollar Amount	100.00%	\$ 1,054,000.00

A4 – LT02

User	Share %	Dollar Amount
District of Columbia	97.23%	\$ 5,086,198.53
Washington Suburban Sanitary Commission	2.77%	\$ 144,901.47
Total Estimated Dollar Amount	100.00%	\$ 5,231,100.00

Total Combined Allocation

User	Share %	Dollar Amount
District of Columbia	70.60%	\$25,627,576.33
Washington Suburban Sanitary Commission	22.86%	\$ 8,299,117.07
Fairfax County	4.27%	\$ 1,550,962.20
Loudoun County & Potomac Interceptor	2.27%	\$ 823,944.40
Total Estimated Dollar Amount	100.00%	\$36,301,600.00

_____/_____
Leonard R. Benson, SVP Date
CIP Project Delivery

_____/_____
Matthew T. Brown Date
CFO and EVP
Finance and Procurement

_____/_____
Dan Bae, VP Date
Procurement and Compliance

_____/_____
David L. Gadis Date
CEO and General Manager

**CONSTRUCTION CONTRACT 180060:
Miscellaneous Facilities Upgrade – Phase 7
Attachment A- Subcontractor Participation**

SUBCONSULTANT:		PARTICIPATION:
SQN Systems, Corp. Columbia, MD	DBE	18.9%
MAC Electric, LLC Sparrow Point, MD	DBE	6.2%
Com-Bro Contracting, Inc. Elkridge, MD	DBE	4.8%
G.E. Frisco Co. Inc. Upper Marlboro, MD	DBE	1.0%
Cahow Raymond R., Inc. Beltsville, MD	DBE	0.9%
Monumental Concrete, LLC Washington, DC	DBE	0.3%
TAG Distribution & Supply LLC Gwynn Oak, MD	WBE	4.1%
Ms. Pipe LLC South Windsor, CT	WBE	0.9%
Monumental Supply Co. Inc. Baltimore, MD	WBE	0.5%
Sunrise Safety Services, Inc. Glen Burnie, MD	WBE	0.4%
Robnet, Inc. Baltimore, MD	WBE	0.1%

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

ACTION REQUESTED

CONSTRUCTION CONTRACT:

**Soapstone Valley Park Sewer Rehabilitation
(Non-Joint Use)**

Approval to execute a construction contract for \$ 7,896,725.24.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
IPR Northeast, LLC 10555 Tucker Street Beltsville, MD 20705	S&J Service, INC. Hyattsville, MD DBE	9.2%
	EastBay Construction and Services 1, LLC Lanham, MD DBE	3.3%
	Daco Construction Corporation Hanover, MD DBE	2.1%
	Caded Consulting Corporation Gaithersburg, MD DBE	1.2%
	Kim Engineering, Inc. Beltsville, MD DBE	0.5%
	Empire Landscape LLC Silver Spring, MD WBE	9.8%
	Resource Industries, LLC Washington, DC WBE	7.2%
	Advantage Manhole & Concrete Services, Inc. Hammond, LA WBE	5.1%
	TFE Resources, LTD Hatfield, PA WBE	0.6%

This project award is based on Best Value. The proposals were evaluated based on 1. Team Experience and Performance History (15% weight) 2. Key Personnel Qualifications and Experience (15% weight) 3. Management & Technical Approach (15% weight) 4. Capacity (5% weight) 5. Subcontracting (10% weight) 6. Price (40% weight). Based on the evaluation of the proposals, the recommendation of award is to the proposal with the highest overall score.

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed:	\$ 7,896,725.24
Contract Time:	733 Days (2 Years, 3 Days)
Anticipated Contract Start Date (NTP):	10/15/2021
Anticipated Contract Completion Date:	07/23/2023
Bid Opening Date:	05/12/2021
Bids Received:	3
Other Bids Received:	
Anchor Construction Corporation Inc.	\$ 7,611,125.00
Spiniello Companies	\$ 7,563,300.00

Purpose of the Contract:

To rehabilitate defective sanitary sewer pipes and manholes along Soapstone Valley Park.

Contract Scope:

- Rehabilitate approximately 6,200 Linear Feet (LF) of 10-inch to 18-inch diameter sewer pipes and 37 manholes using Cured-in-Place Pipe (CIPP).
- Install asset protection features and structures.
- Install approximately 2,850 LF of heavy equipment access paths.
- Rehabilitate MS4 F-117 outfall structure.
- Install approximately 20 LF of 15-inch Reinforced Concrete Pipe (RCP)
- Mill & overlay approximately 1,080 Square Yards (SF).
- Replace catch basin and approximately 80 LF of sidewalk and 35 LF of gutter.
- Perform sewer bypass pumping.
- Install temporary stream diversion measures.
- Remove up to 245 trees and plant up to 270 trees.
- Install erosion and sediment control measures.
- Maintain Traffic Control.

Federal Grant Status:

- This Construction Contract is not eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	Award Based On:	Best Value
Commodity:	Construction	Contract Number:	170190
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Engineering and Technical Services
Service Area:	Sewer	Department Head:	Mark Babbitt (Acting)
Project:	G5		

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	100.00%	\$7,896,725.24
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%	\$7,896,725.24

_____/_____
 Leonard R. Benson, SVP Date
 CIP Project Delivery

_____/_____
 Matthew T. Brown Date
 CFO and EVP
 Finance and Procurement

_____/_____
 Dan Bae, VP Date
 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:

**Emergency Sewer Main IR&R Contract for FY21 - FY23
(Non-Joint Use)**

Approval to execute a Change Order No.001 for \$ 15,450,000.00. The modification exceeds the General Manager's approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS (CHANGE ORDER 001)	PARTICIPATION (CHANGE ORDER 001):
Spiniello Companies 3500 East Biddle St. Baltimore, MD 21213	Metro Paving Hyattsville, MD DBE	23%
	Shekinah Group, LLC Catonsville, MD DBE	5%
	Trinmar Contracting Edgewood, MD DBE	4%
	R&R Contracting Utilities, Inc. Olney, MD WBE	6%

DESCRIPTION AND PURPOSE

Original Contract Value:	\$16,011,710.00
Value of this Change Order:	\$ 15,450,000.00
Cumulative CO Amount, including this CO:	\$ 15,450,000.00
Total Contract Value, including this CO:	\$ 31,461,710.00
Original Contract Time:	1096 Calendar Days (3 Years)
Contract Start Date (NTP):	11/01/2020
Anticipated Contract Completion Date:	10/31/2023
Cumulative CO % of Original Contract	96%

Purpose of the Contract:

This contract provides emergency and urgent sewer infrastructure repair and replacement services at various public space locations in Washington, DC.

Original Contract Scope:

DC Water will award an Indefinite Delivery and Indefinite Quantity (IDIQ) contract to the selected contractor. As emergency or urgent work is identified, DC Water Sewer Operations will develop scopes of work, negotiate costs using pre-established pricing, and issue task orders to the contractor. Joint-use cost share amounts will be determined, communicated and billed per existing joint-use procedures. Typical task order scopes may include:

- Emergency or Scheduled Repair and Replacement of Sewer & Infrastructure
- Cleaning & CCTV Inspection of Sewer Main
- Sewer Bypass Pumping

Previous Change order Scope:

N/A

Current Change Order Scope:

To support the start of DC Water’s Lead Free DC (LFDC) Program which will replace all lead service lines in the District by 2030. The change order of this contract will provide construction resources for FY22 block-by-block lead service line replacement projects through the LFDC Capital Improvement Project and Emergency Repair Replacement (CIPERR) program for both the private and public side. Funding for the private side replacement is contingent upon funds to be appropriated in the District’s budget and transferred to DC Water through a future Memorandum of Understanding. DC Water will reimburse itself for costs incurred on the private side.

The change order scope includes the following in addition to the original contract scope:

- Remove and replace existing lead and galvanized water service lines (which includes test-pitting and temporary pavement and surface restoration).
- Install new copper service line from corporation stop to building.
- Installation of Meters (provided by DC Water) Meter Boxes, Frame and Covers. Meter activation will be completed by DC Water staff.
- Installation of Curb Stop and Curb Stop Box.
- Private side tie-in and coordination with homeowners.
- Restore 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

Federal Grant Status:

- This Construction Contract Change Order 001 may be eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION

Contract Type:	Unit Price	Award Based On:	Best Value
Commodity:	Construction	Contract Number:	200020
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Sewer Services
Service Area:	Water	Department Head:	Kenrick St. Louis
Project:	ST		

***ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 15,450,000.00
Federal Funds	0.00%	
Washington Suburban Sanitary Commission	0.00%	
Fairfax County	0.00%	
Loudoun County & Potomac Interceptor	0.00%	
Total Estimated Dollar Amount	100.00%	\$ 15,450,000.00

_____/_____
 Kenrick St. Louis Date
 VP of Pumping and Sewer Operations

_____/_____
 Matthew T. Brown Date
 CFO and EVP of Finance and Procurement

_____/_____
 Dan Bae Date
 VP of 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:

Small Diameter Water Main Replacement 14B

(Non-Joint Use)

Approval to execute a Change Order No.001 for \$ 15,450,000.00. The modification exceeds the General Manager's approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Capitol Paving of D.C., Inc 2211 Channing Street, N.E. P.O. Box 21248 Washington, DC 20018	Amerigal Construction Co.Inc. Glen Dale, Maryland DBE	33.0 %
	Royal Construction Materials Mclean, VA WBE	8.0%

DESCRIPTION AND PURPOSE

Original Contract Value:	\$ 8,003,916.00
Value of this Change Order:	\$ 15,450,000.00
Cumulative CO Amount, including this CO:	\$ 15,450,000.00
Total Contract Value, including this CO:	\$ 23,453,916.00
Original Contract Time:	385 Days (1 Year 1 Month)
Time Extension, this CO:	101 Days
Total CO Contract time extension	101 Days
Contract Start Date (NTP):	06/01/2021
Anticipated Contract Completion Date:	09/30/2022
Cumulative CO % of Original Contract	193%

Purpose of the Contract:

Replacement of small diameter water mains that have experienced failures, or have a history of low water pressure, or water quality issues across various locations within the District of Columbia.

Original Contract Scope:

Scopes of work will be developed and issued to the contractor on a task order basis as needed by DC Water. Typical task order scopes may include:

- Replace 2.76 miles of watermains ranging from four (4) inch to twelve (12) inches and associated valves and appurtenances.
- Replace water services 2" and smaller in public and private space as needed.
- Replace curb stop / curb stop box, meter box and penetration through building wall and connection to first fitting inside the building including installation of a shut-off valve and pressure reducing valve.
- Provide permanent pavement and surface restoration.

Previous Change order Scope:

N/A

Current Change Order Scope:

To support the start of DC Water’s Lead Free DC (LFDC) Program which will replace all lead service lines in the District by 2030. The change order of this contract will provide construction resources for FY22 block-by-block lead service line replacement projects through the LFDC Capital Improvement Project and Emergency Repair Replacement (CIPERR) program for both the private and public side. Funding for the private side replacement is contingent upon funds to be appropriated in the District’s budget and transferred to DC Water through a future Memorandum of Understanding. DC Water will reimburse itself for costs incurred on the private side.

The change order scope includes the following in addition to the original contract scope:

- Remove and replace existing lead and galvanized water service lines (which includes test-pitting and temporary restoration).
- Install new copper service line from corporation stop to building.
- Installation of Meters (provided by DC Water) Meter Boxes, Frame and Covers. Meter activation will be completed by DC Water staff.
- Installation of Curb Stop and Curb Stop Box.
- Private side tie-in and coordination with homeowners.
- Restore 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.

Federal Grant Status:

- This Construction Contract change order 001 is eligible for Federal grant funding assistance.

PROCUREMENT INFORMATION

Contract Type:	Unit Price	Award Based On:	Lowest responsive, Responsible Bidder
Commodity:	Construction	Contract Number:	170080
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Engineering and Technical Services
Service Area:	Water	Department Head:	Mark Babbitt
Project:	ST		

***ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 15,450,000.00
Federal Funds	0.00%	
Washington Suburban Sanitary Commission	0.00%	
Fairfax County	0.00%	
Loudoun County & Potomac Interceptor	0.00%	
Total Estimated Dollar Amount	100.00%	\$ 15,450,000.00

_____/_____
Leonard R. Benson Date
SVP, CIP Project Delivery

_____/_____
Matthew T. Brown Date
CFO and EVP of Finance and Procurement

_____/_____
Dan Bae Date
VP of Procurement and Compliance

_____/_____
David L. Gadis Date
CEO and General Manager



In-Sourcing Program and Construction Management

Environmental Quality and Operations Committee
Chair – Adam Ortiz
July 15, 2021





Presentation Objective

Presentation on Engineering Program Management and Construction Management Contracting.

Follow up items

1. Provide a compilation of general planning and engineering services contracts executed in 2020 as well as a status update on DC Water's strategy to gradually bring these types of services in-house.
2. Concern with respect to loss of institutional knowledge when Program Management and Construction Management contracts end.



Definitions

Program Management (PM)

A program is a group of related projects managed in a coordinated manner to obtain benefits not available from managing them individually. Program management is the application of knowledge, skills, tools and techniques to meet program requirements.

(Project Management Institute)



Construction Management (CM)

Construction management is a professional service that provides a project's owner(s) with effective management of the project's schedule, cost, quality, safety, scope, and function.

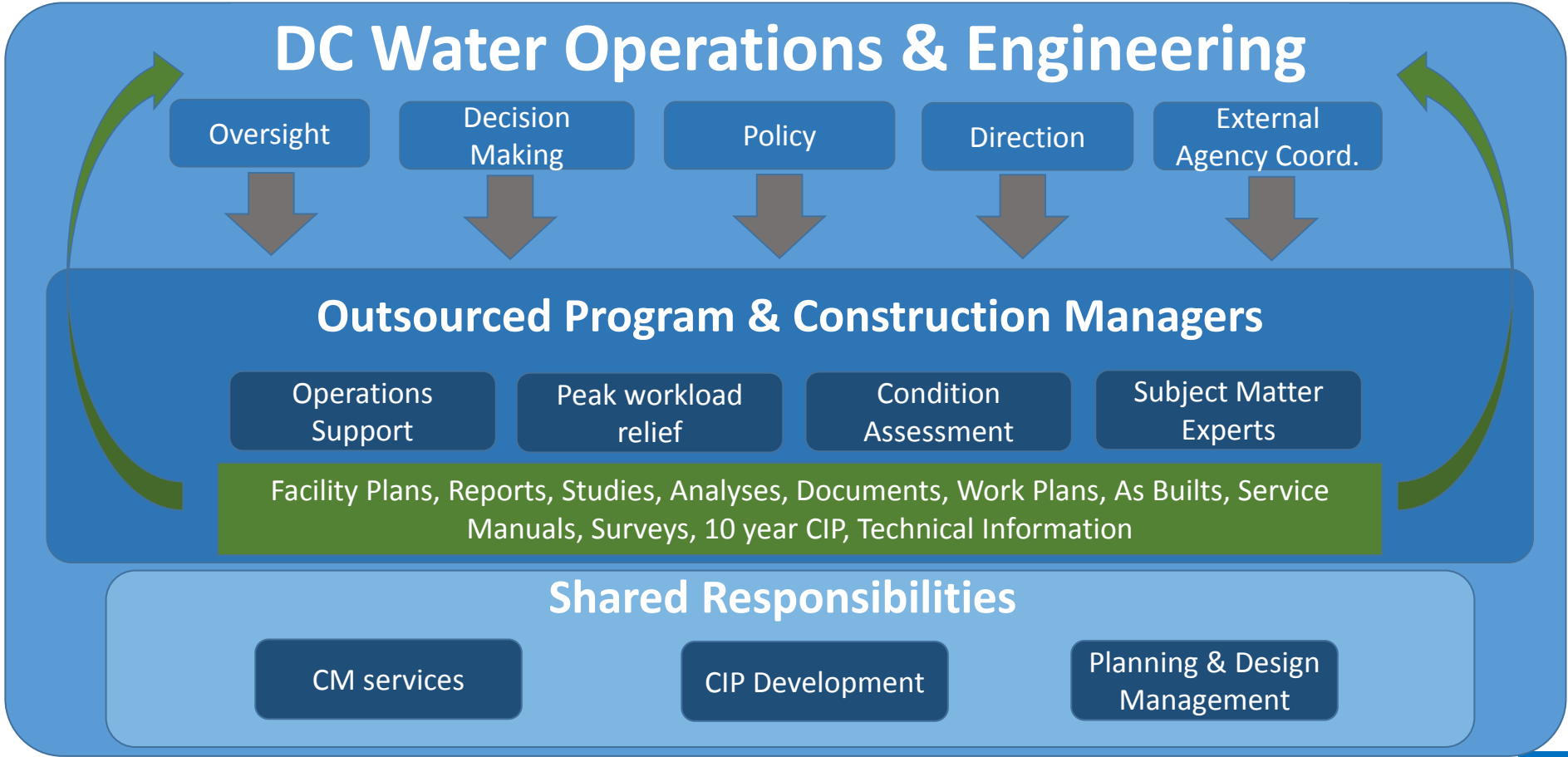
(Construction Management Association of America)





Current and Near Future Agreements

	DCCR	Construction Management Services DCCR	1-Mar-18	5	\$ 28,033,187	19
Program Management	Non DCCR	Planning and Engineering Support for Sewer System	18-Feb-21	4	\$ 20,000,000	18
		Wastewater Treatment Program Management 2	1-May-20	4	\$ 45,000,000	19
		Water Program Manager	1-Feb-20	4	\$ 22,203,000	13
		Non Proces Facilities Program Management	24-Jun-21	3	\$ 3,000,000	5
		Operations and Maintenance Assistance Program	23-Jun-11	9	\$ 28,980,143	3
	DCCR	Program Management for Engineering Services DCCR	1-Oct-18	5	\$ 128,484,051	80





Insourcing to Date

- 2018 to 2019 Successful insourcing of 30-year Operations and Maintenance Assistance Program by Wastewater Process Engineering and 6 other departments
- Wastewater Treatment – 2010 to 2018 Peak construction (Biosolids, ENR) required significant staff augmentation to meet peak load.
- Established CIP Infrastructure Management Department centralizing key CIP delivery support functions
- PM agreements structured to ramp down consultant staff as insourcing ramps up
- Wastewater Treatment Process Control Program Management insourced 2017
- Wastewater Treatment Research and Development staff augmentation transitioned to interns 2017

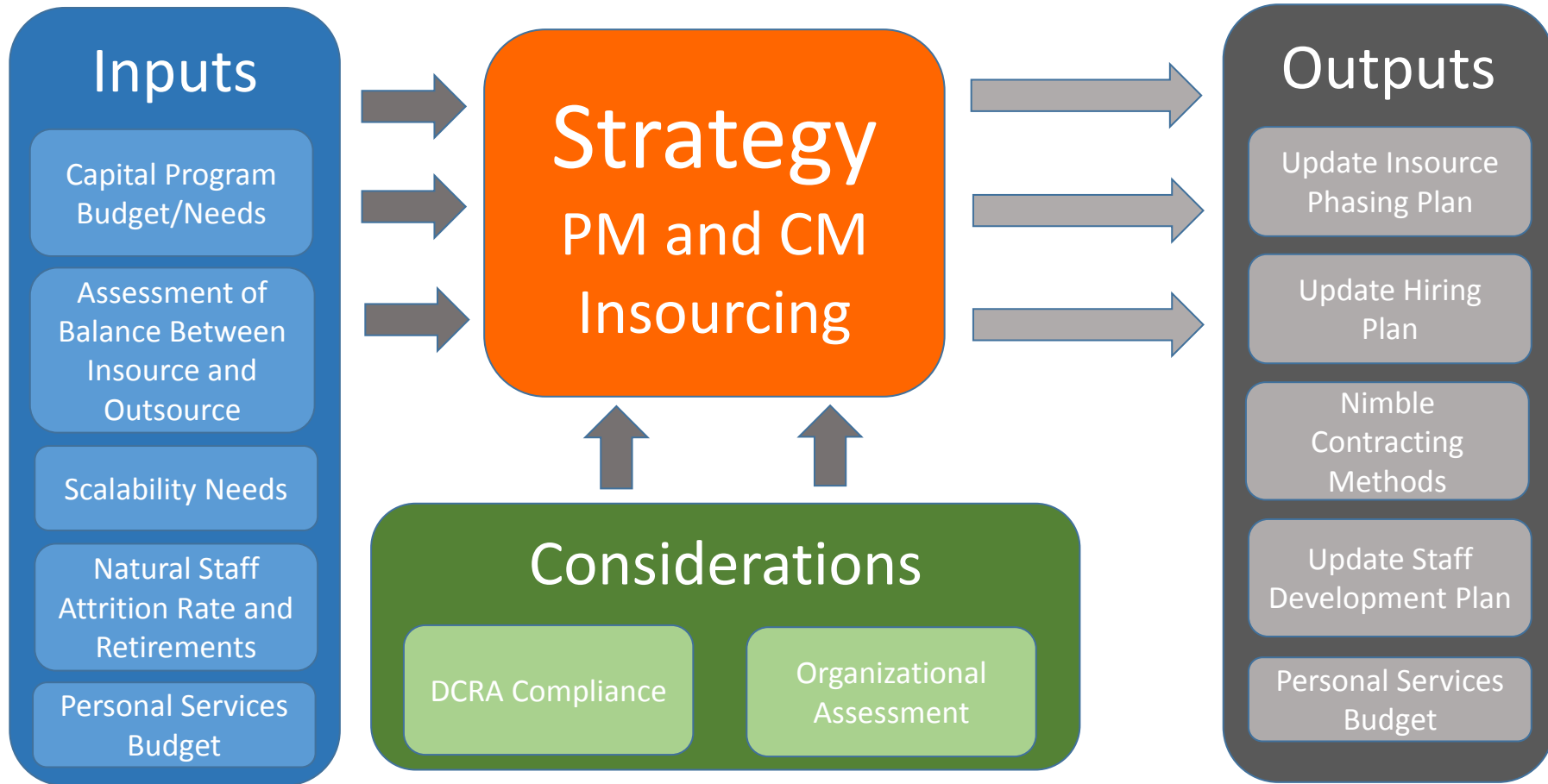


Considerations

- DC Department of Consumer and Regulatory Affairs (DCRA) Professional Engineering (PE) Regulations significantly revised in 2017, with compliance orders to DC Government agencies 2019 including DC Water
- Operations and Engineering (O&E) organizational assessment and realignment (Spring / Summer 2021).



Strategy



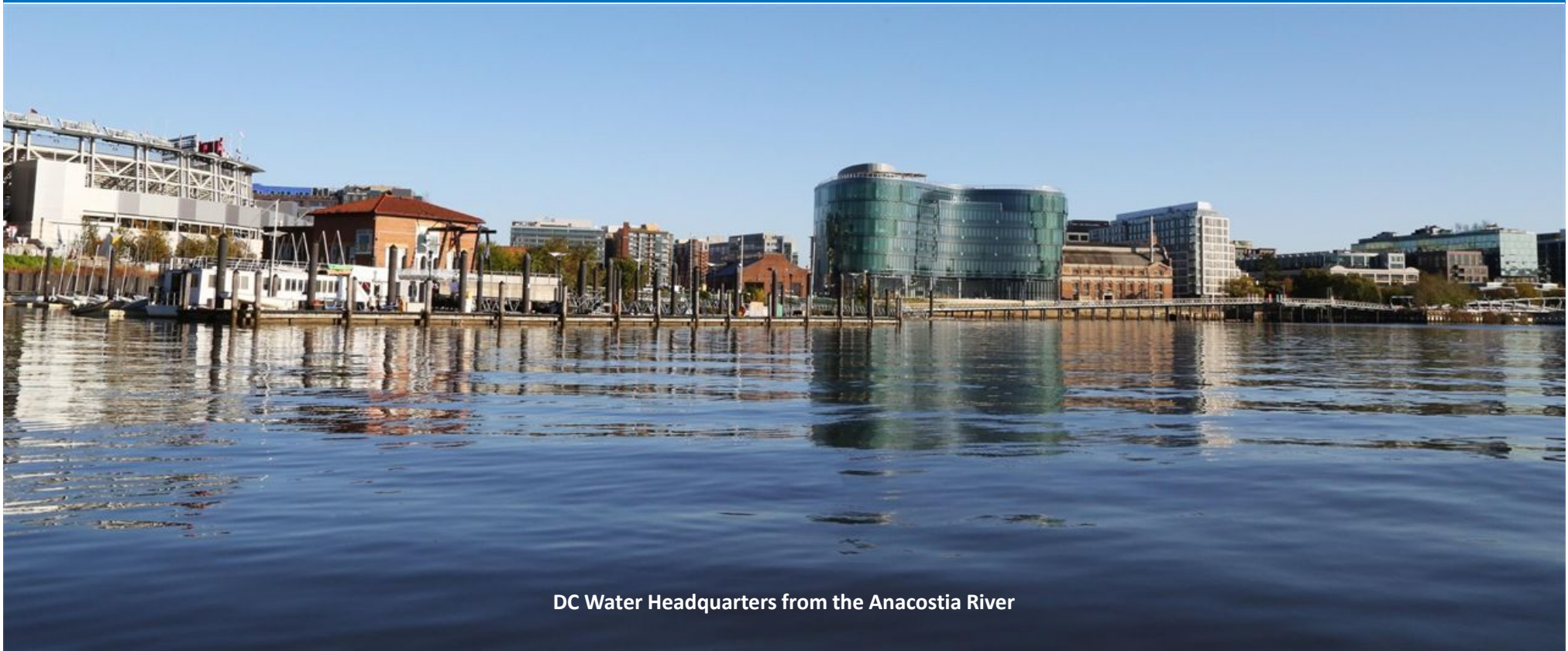




Contractor Availability

Presentation to Environmental Quality and Operations Committee, July 15, 2021
Engineering and Procurement

District of Columbia Water and Sewer Authority



DC Water Headquarters from the Anacostia River



💧 Discuss availability of contractors for DC Water's Capital Improvement Program (CIP)

- **Construction and construction management work to be awarded from FY2022 through FY2026**
- **Assessment of contractor availability to deliver for DC Water and our customers**
- **Procurement efforts and improvements to ensure opportunity and to deliver projects**



Construction and Construction Management Work to be Awarded from FY2022 through FY2026

Presented by:

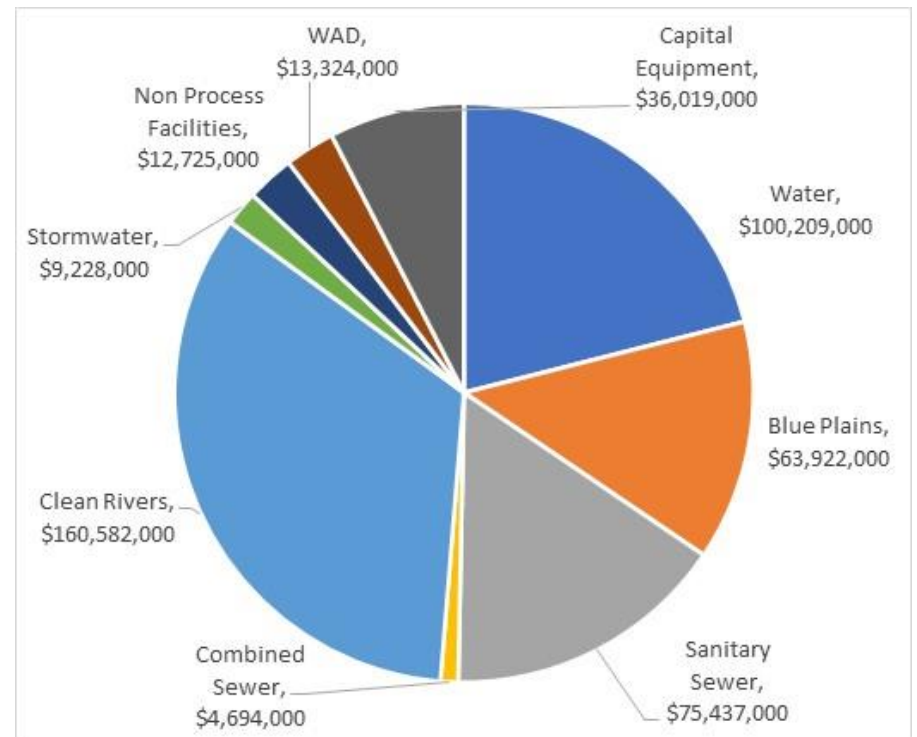
Leonard R. Benson, SVP, CIP Project Delivery



CIP Opportunities

- DC Water will spend \$2.7 billion from FY2022 through FY2026 to improve infrastructure, the majority on DC Water facilities
- This presents substantial opportunities for new and enhanced partnerships with contractors

DC Water CIP, FY2022-26

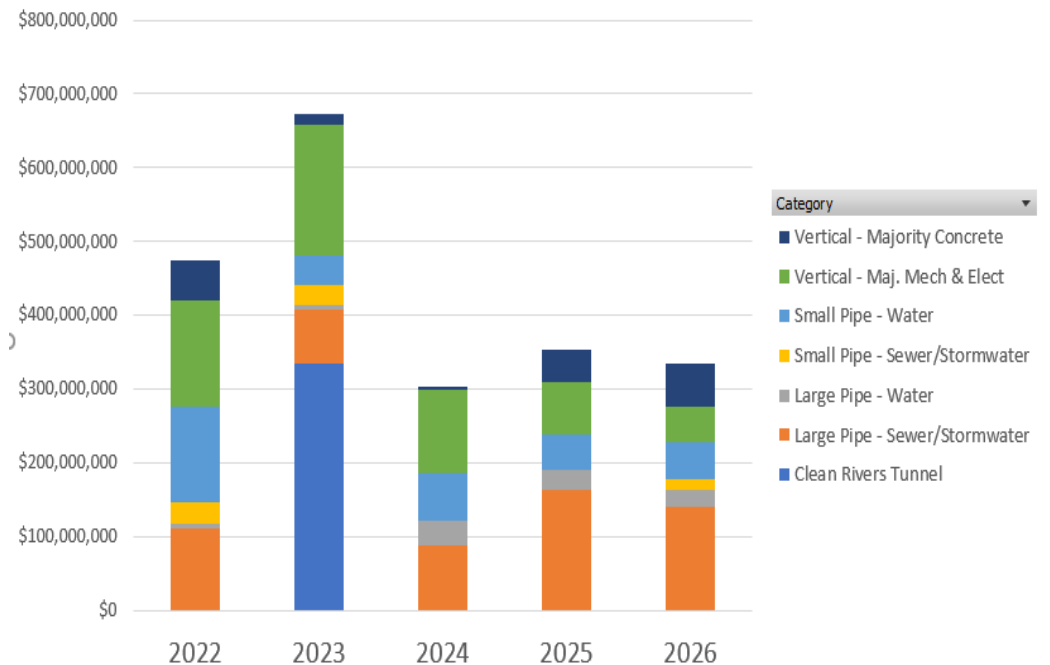




Construction Forecast - FY22 – FY26

Number and Type of Anticipated Contracts FY22 – FY26

Category	No. of Contracts	Estimated Total
Clean Rivers Potomac Tunnel	1	\$333,900,000
Large Pipe - Sewer/Stormwater	42	\$578,600,000
Large Pipe - Water	13	\$94,400,000
Small Pipe - Sewer/Stormwater	6	\$71,000,000
Small Pipe - Water	19	\$335,600,000
Vertical - Majority Mech & Elect	43	\$548,400,000
Vertical - Majority Concrete	12	\$175,700,000
Grand Total	136	\$2,137,800,000

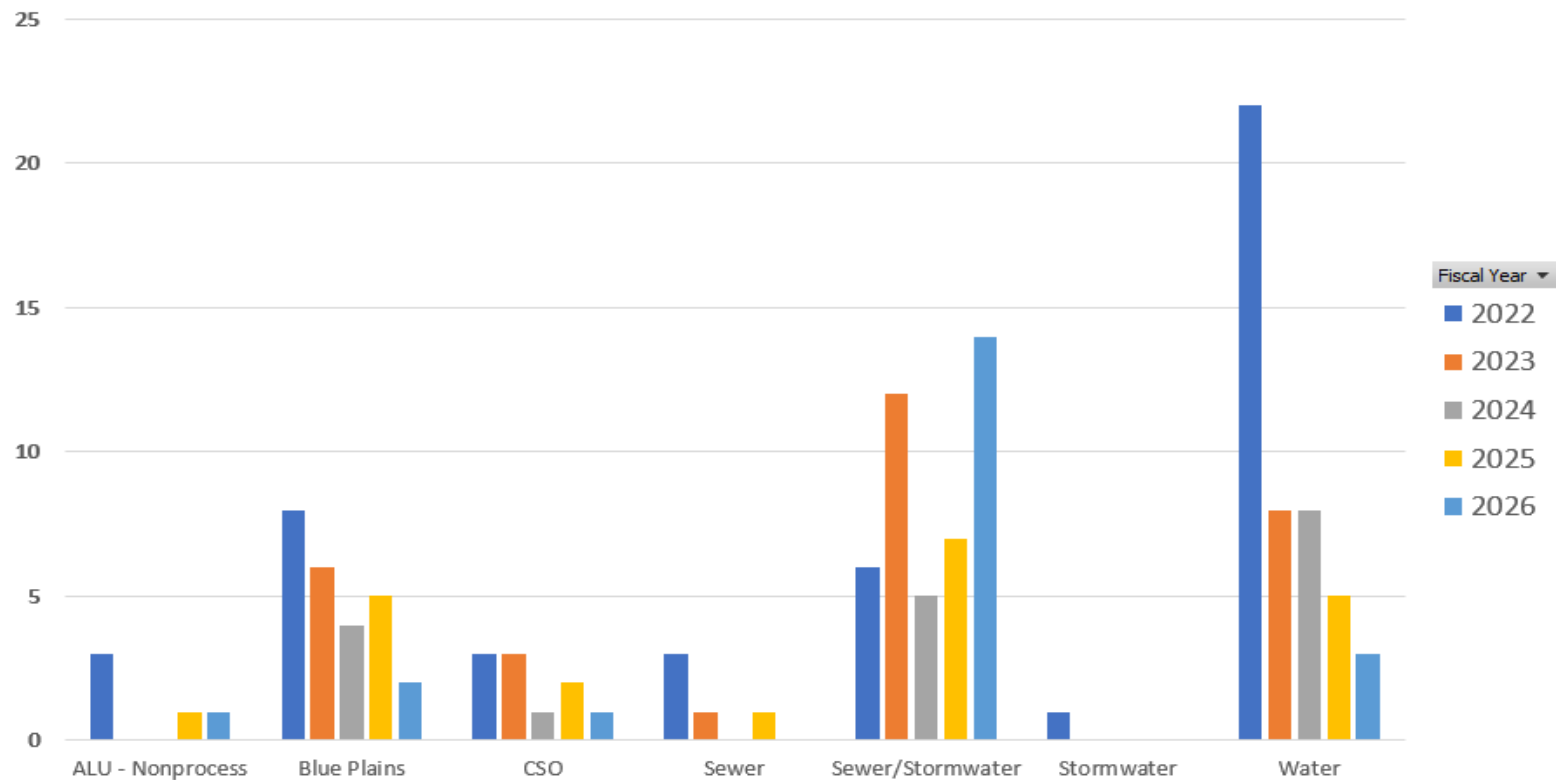


Estimated figures based on current funding – Some contracts may be Combined, and others Separated



Construction Forecast - FY22 – FY26

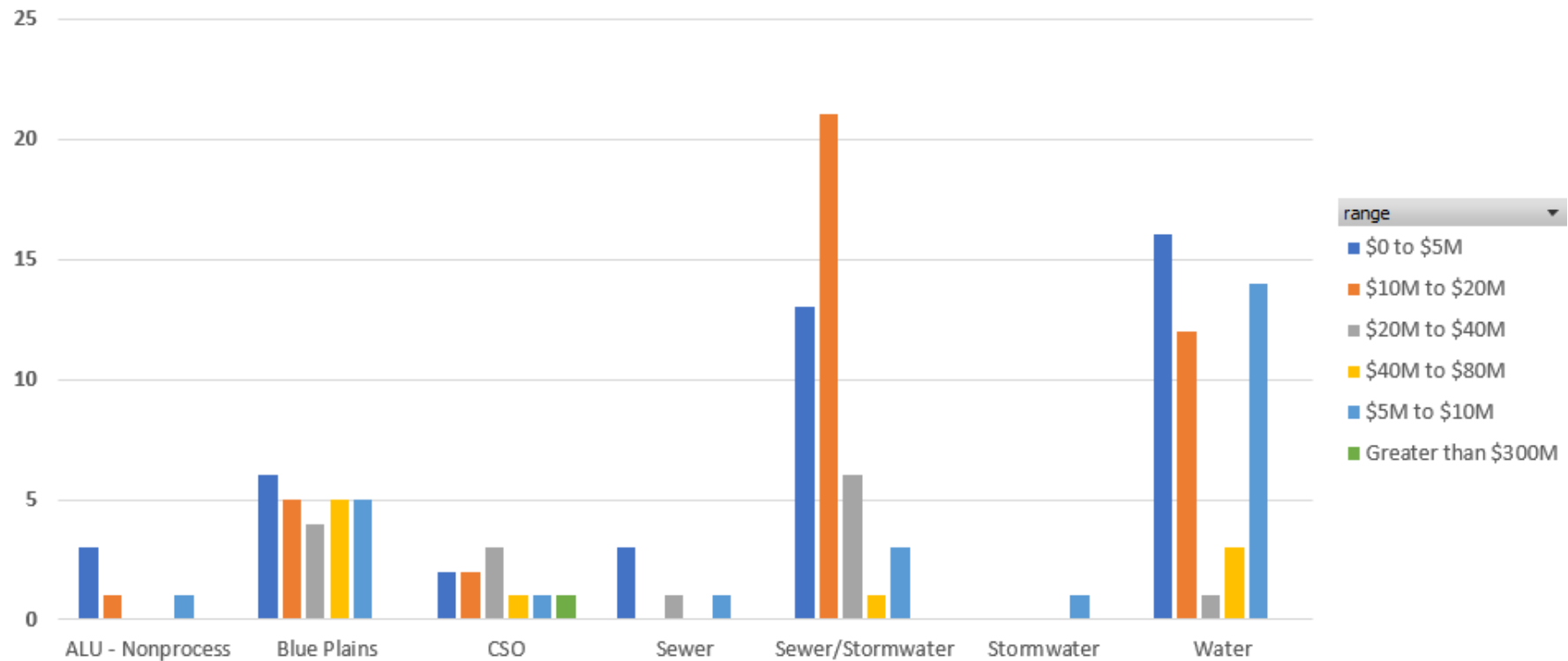
Number of Anticipated Contracts by Service Area by Year





Construction Forecast - FY22 – FY26

Number of Contracts by Service area by Cost Range





Construction Forecast - FY22 – FY26

Disciplines and Skills required:

💧 **Water, Sewer and Stormwater - Linear**

- *Large Diameter Water Mains* – Repair and rehabilitation (skills depend on material type)
- *Small Diameter Water Mains* – Majority is open trench replacement with trenchless replacement of lead service lines. Some repair possible under IR and R contracts.
- *Large and small Diameter Sewer and Stormwater pipes* - Lining and point repair (skills depend on pipe size and material)

💧 **Wastewater, Water, Sewer and Stormwater – Vertical**

- Mechanical and Electrical rehabilitation and new installation. Electrical equipment, piping, valves and pumps
- Process control instrumentation installation and configuration
- Process unit concrete repair and replacement work
- Maintenance of plant operations

💧 **Clean Rivers**

- Large Diameter tunnels and installation of drop shafts and overflows (Heavy Civil Engineering)
- Green infrastructure work – Stormwater management structures, urban greenery
- Relocation of utilities



Assessment of Contractor Availability to deliver for DC Water and Our Customers

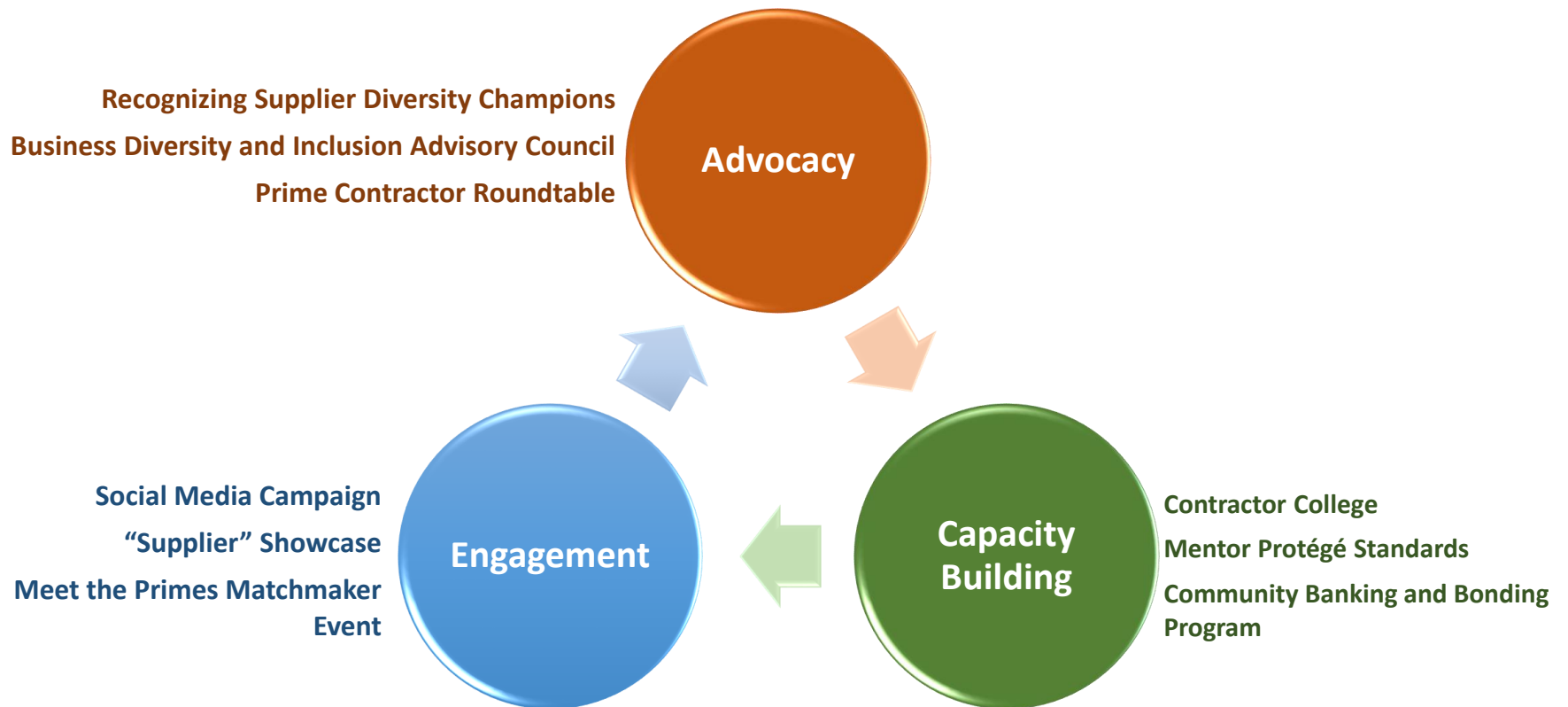
Presented by:

Korey R. Gray, Director, Compliance and Business Development



Business Diversity and Inclusion

Going Beyond the Goals- the Required Good Faith Efforts





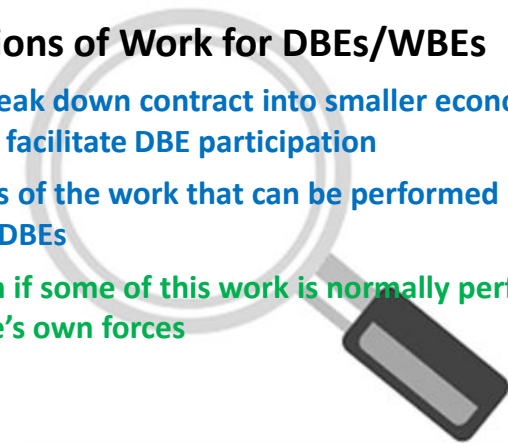
Business Diversity and Inclusion Examples of Good Faith Efforts



Going Beyond the Goals- the Required Good Faith Efforts

□ Identifying Portions of Work for DBEs/WBEs

- Unbundling - Break down contract into smaller economically feasible units to facilitate DBE participation
- Identify portions of the work that can be performed by subcontractors/DBEs
 - Do so even if some of this work is normally performed with Prime's own forces



□ Working with Strategic Partners

Effectively using services of available business organizations:

- Community organizations
- Contractors' groups
- DC Water's Business Diversity and Inclusion Program
- Federal Assistance offices
- Other organizations that provide services for recruitment and placement of DBE/WBEs

□ Effective Information Sharing

- Must provide interested firms with timely information about the plans, specifications and requirements of the subcontract
- As documentation, consider providing print screens of company's website where plans are available



Business Diversity and Inclusion Examples of Good Faith Efforts



Going Beyond the Goals- the Required Good Faith Efforts

Access to capital, credit, and surety bonding is key to the ability of certified firms successfully competing in the open marketplace. As a result, the following programs and standards were developed to help firms improve access to the financing tools they need to grow.

- ❑ **Training Seminars:** DC Water and its strategic partners conduct comprehensive training seminars designed to help firms understand how to build competitively viable businesses.
- ❑ **Contractor's College:** The DC Water Contractors College is a 15 week program designed to facilitate capacity building and growth for local, small and disadvantaged businesses.
- ❑ **Mentor Protégé Standards:** DC Water established mentor/protégé standards to encourage primes and large businesses to provide various forms of business development assistance to certified firms (protégés).



❑ **Assistance to DBE/WBE's**

Provide documentation that Prime helped DBE with financial assistance such as:

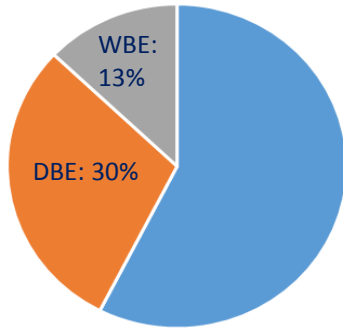
- Bonding
- Insurance
- Lines of credit
- Payroll advances
- Joints checks
- Necessary equipment/ Supplies/ Materials



Business Diversity and Inclusion Certified Firm Utilization

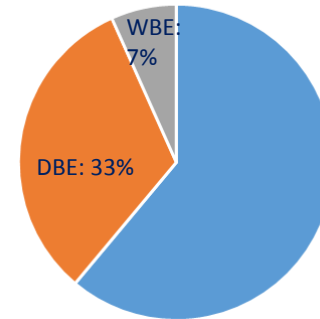
Certified Firm Achievement - How are We Doing?

FY 21 New Awards
A/E Projects



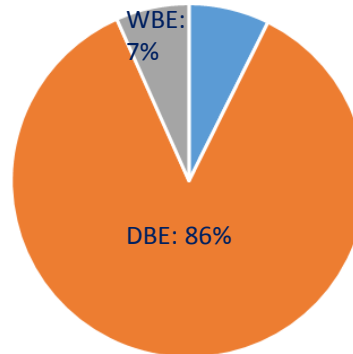
- Total Value: \$23M
- Total DBE: \$6.8M (14 Firms)
- Total WBE: \$2.9M (4 Firms)

FY 21 New Awards
Construction Projects



- Total Value: \$73M
- Total DBE: \$23.5M (26 Firms)
- Total WBE: \$4.9M (13 Firms)

FY 21 New Awards
Goods and Services



- Total Value: \$15M
- Total DBE: \$12.9MM (23 Firms)
- Total WBE: \$1M (4 Firms)

FY 21 Highlights:

- All utilization goals exceeded for FY 21 new awards
- 1st Certified B/WBE Prime (A/E award)
- Over 80 certified firms participating
- 6 mentor/protégé relationships established



Procurement Efforts and Improvements to Ensure Opportunity and to Deliver Projects

Presented by:

Rudy Gonzalez, Director of Procurement, Capital Programs



Capital Procurement Vision

Service	Effective and efficient service to DC Water daily operations and capital improvement efforts
Results	Positive economic results to our Community and Ratepayers through transparent, inclusive and equitable procurement methods
Participation	Increase participation at all levels of our contracting process by removing barriers to entry for new and existing vendors
Relationships	Actively manage relationships with our contractor and consultant community to make DC Water their “Customer of Choice”
High Performance	Establish a world class water utility Procurement Organization

Capital Procurement Strategy

- 
- Adopt industry best practice in strategic sourcing
 - Enhance market research, business development, outreach
 - Enhance communication of business opportunities
 - Partner with Compliance to maximize participation and workforce development.
 - Remove barrier for business opportunities
 - Right-size contracts
 - Determine appropriate requirements (avoid over spec)
 - Set appropriate bonding levels
 - Limit restrictive contract language
 - Prompt payment
 - Quick processing of change orders, retention of retainage
 - Utilize structured negotiations and supplier relationship management
 - Streamline procurement procedures & policies
 - Reduce lead times and administrative burden for solicitations and contract modifications.
 - Leverage technology (Oracle ERP / e-Procurement) for increased productivity

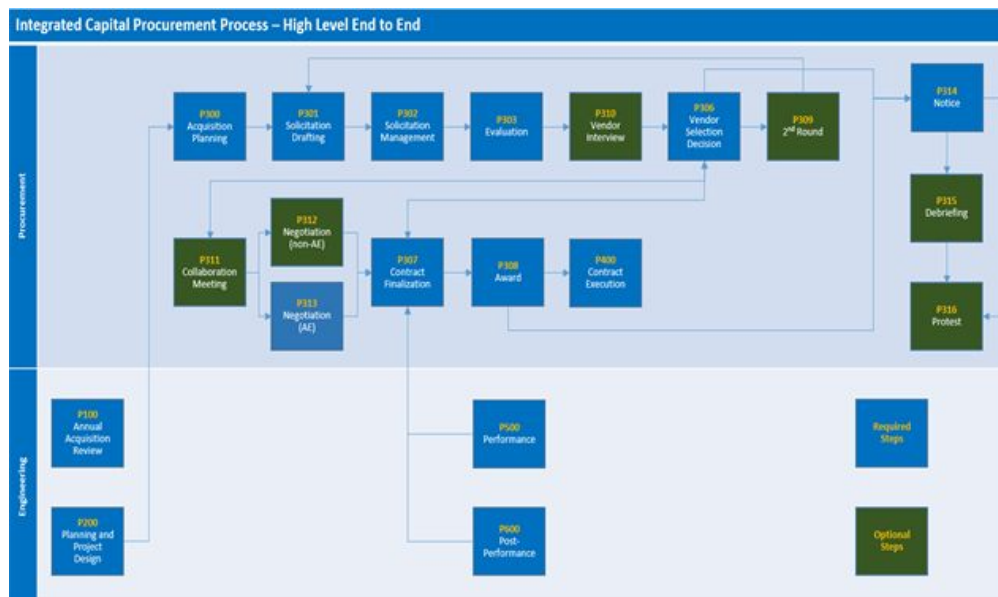


Integrated Capital Procurement

Adopted industry’s best practice in Strategic Sourcing to fit DC Water and created an Integrated Capital Procurement process

Integrated Capital Procurement process is designed to:

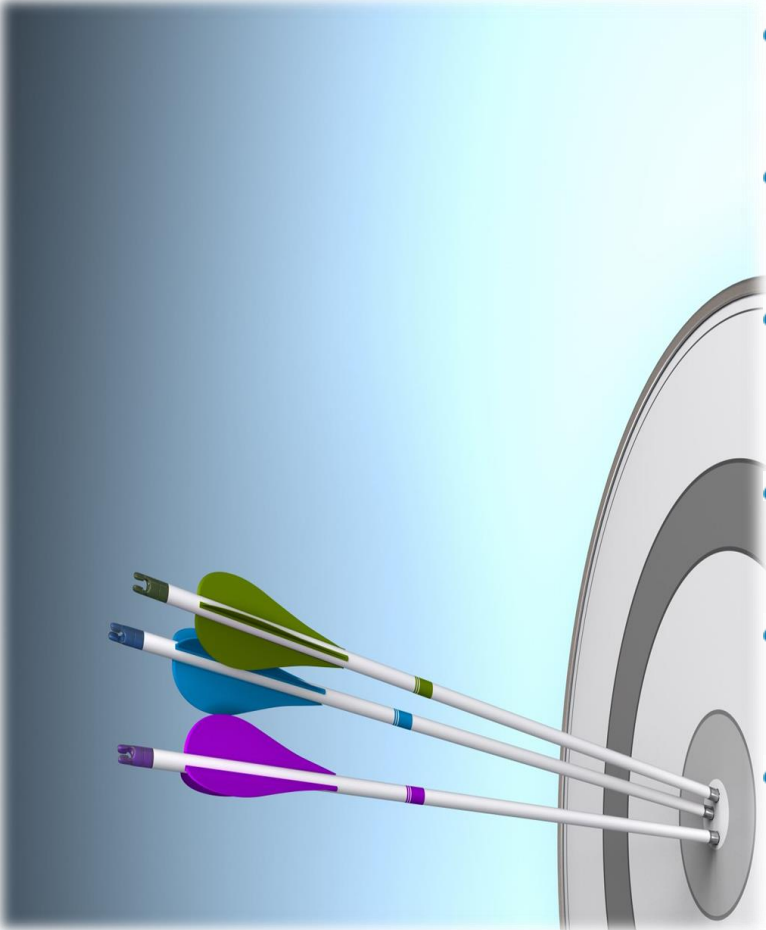
- Introduce agility, efficiency, and consistency in the procurement process
- Enhance Integrity, Fairness, Transparency, and Competition
- Promote business diversity and inclusion
- Improve ease of doing business with DC Water
- Increase contractor/vendor participation
- Improve financial results through increased competition



The transition to the Integrated Capital Procurement process has started and expected to be completed by December 2021



Capital Procurement Results To-Date

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- A graphic on the left side of the slide shows a target with three arrows. The arrows are green, blue, and purple, and they are all pointing towards the center of the target. The target is a circular graphic with concentric rings, and the background is a light blue gradient.
- **Non-Process Facilities Program Management**
 - Unbundled Contract, updated industry outreach process, solicited vendor feedback
 - Increased participation & awarded contracts to WBE/MBE local firm
 - **IRR Emergency Sewer Main**
 - Cross-functional DC Water team developed RFP strategy and structured negotiations
 - Increased participation, awarded contract to a new Contractor, saved \$1.79 Million
 - **Public Space Restoration**
 - Strategic Sourcing Team developed RFP strategy, unbundled contract, reduced bonding requirements, conducted extensive outreach, and implemented vendor feedback
 - Published a multiple-award (3 contracts) and registered multiple new contractors
 - **Linear Design BOA**
 - Changed from single award to multiple award (2 Contracts) engaged in extensive outreach
 - Increased participation and received 15 proposals
 - **Sewer Services BOA**
 - Negotiated labor rates and profit markups
 - Reduced fees equivalent to \$1.9MM over the life of the contract
 - **Water & Sewer Construction Management BOA**
 - Changed from single award to multiple award (2 Contracts) engaged in extensive outreach
 - Increased participation and received 8 proposals including 2 DBE/WBE firms



Moving Forward

- 💧 Identify skills needed for capital improvement program
- 💧 Provide opportunities for firms to grow and compete
 - Business Diversity and Inclusion Advisory Council
- 💧 Complete capital procurement transition