

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

Meeting of the Environmental Quality and Operations Committee

Thursday, February 15, 2024 9:30 a.m.

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Meeting ID: 294 613 320 197

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Phone Conference ID: 699 206 352#

9:30 a.m.	I	Call to Order	Sarah Motsch, Chair				
	II	Roll Call Mic	chelle Rhodd, Board Secretary				
9:35 a.m.	Ш	BPAWTP Performance Update	Nicholas Passarelli				
9:40 a.m.	IV	Fire Hydrants Update	Sylvia Okogi				
9:45 a.m.	V	Water Quality Monitoring	Maureen Schmelling				
9:50 a.m.	VI	CIP Quarterly Update D	David Parker and Paul Guttridge				
10:10 a.m.	VII	Proposed FY2024 – FY2033 Capital Improvement Pro	gram Matthew Brown				
		1. Action Item (Joint Use): Recommendation for Appre	oval				
		FY 2023 – FY 2033 – Proposed Capital Improvement (10-Year Disbursement Plan and Lifetime Budget)	Program				
10:30 a.m.	VIII	Action Items (Non-Joint Use)					
		Contract No. N/A - Metro Branch Trail from Pine NW - District of Department of Transportation	y Branch Road NW to Blair Rd				
		<ol> <li>Contract No. 200030 – Small Diameter Water Ma Paving of D.C., Inc</li> </ol>	ain Replacement-16A – Capitol				
10:50 a.m.	IX	Other Business/Emerging Issues					
10:55 a.m.	X	Executive Session*					
11:00 a.m.	ΧI	Adjournment	Sarah Motsch				

This meeting is governed by the Open Meetings Act. Please address any questions or complaints arising under this meeting to the Office of Open Government at <a href="mailto:opengovoffice@dc.gov">opengovoffice@dc.gov</a>.

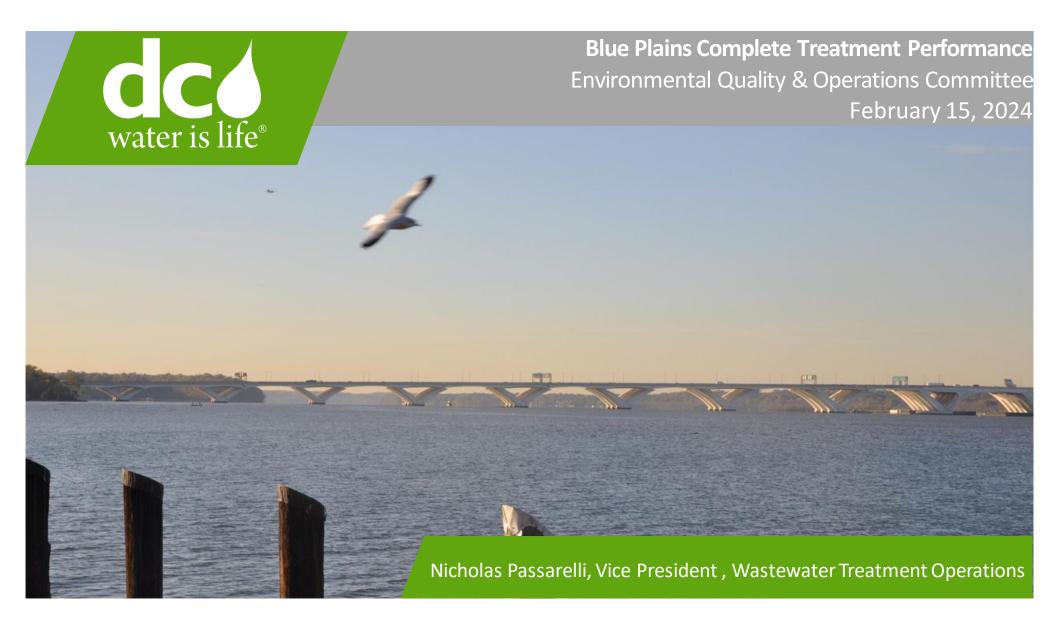
#### Follow-up Items from Prior Meetings:

- William Elledge (Director, Engineering and Technical Services): Provide a cost estimate
  for the new parallel Potomac Interceptor River Crossing pipe that has the added benefit of
  creating redundancy. The committee would like to be informed prior to the geotechnical
  equipment helicopter fly in. Responses will be provided in February.
- 2. David Parker (Vice President, Engineering): Provide a chart mid-year of analysis to explain why DCW projections are never quite right and where we see the risk of them not being quite right. The analysis should further explain what is causing the errors in projection and how we can get a better handle on where we think the projections can potentially go with a risk of them not being exact. Information that should be included is listed below:
  - a. Certainty and risks on each set of projections
  - b. Analysis of differences of the following and the certainty of each moving forward
    - i. What we thought FY25 was going to cost last year
    - ii. What we think FY25 is going to cost now
  - Analysis of what categories DCW is certain are vs. what categories DCW isn't certain of
  - d. Analysis of
    - i. Where DCW thought we'd be
    - ii. Where DCW is now
    - iii. A look at outyears to show which categories are affected by these potential risks
      - 1. Show how certain or uncertain
        - a. Include historical analysis of how certain DCW has been in the past

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



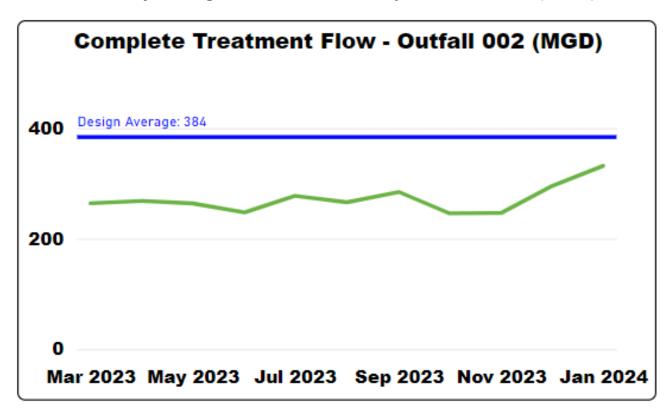
## **BPAWTP UPDATE**





# Operational Performance Complete Treatment

## Monthly Average Flow Trend to Complete Treatment (MGD)



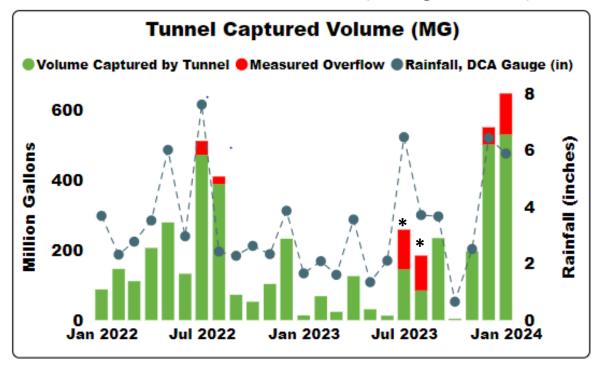
All weekly and monthly
NPDES permit requirements
were met

Average Outfall 002 flow for Jan: 332 MGD



# Operational Performance Tunnel Systems and Wet Weather Treatment

## Anacostia River Tunnel System Annual Performance 2022 – 2024 (Through Jan 2024)



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

## **Total System Performance** from Start-Up (2018-2023)

	Anacostia River Tunnel System
Number of events	290
Volume Captured, MG	16,229
Volume to CSO, MG	1,538
Percent Captured, %	91.0

Note: Total System includes Anacostia, Potomac, and Rock Creek

MG ~ Million Gallons

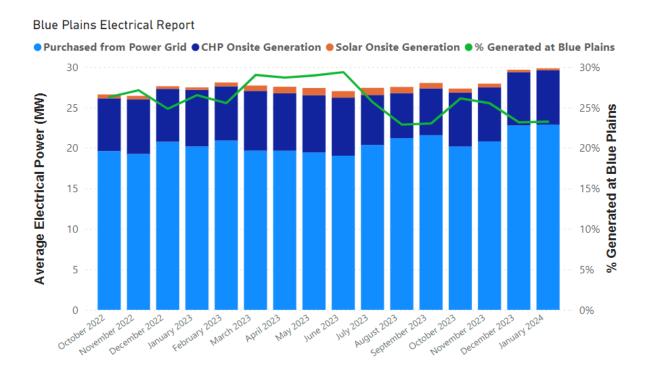
CSO~ Combined Sewer Overflow

1443 MG of volume captured by Anacostia River Tunnel System in Calendar Year 2023 through December, with 262 MG overflow



## Operational Performance Electrical Energy Use and Generation

## **Blue Plains Electrical Energy Use and Generation**



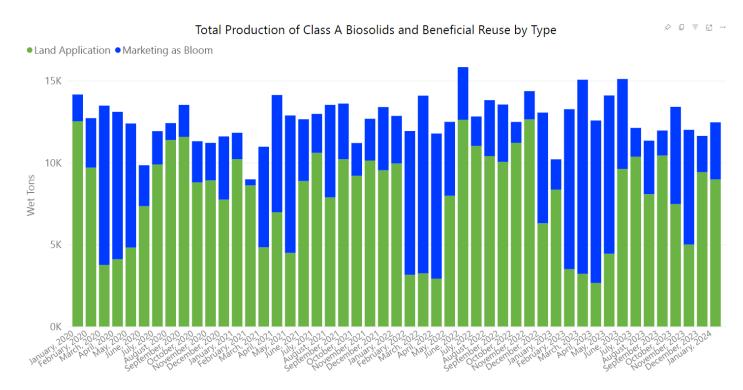
- 23% of electricity was generated onsite
- Combined Heat and Power (CHP)
   facility produced an average of 8.0 megawatts (MW), with 6.7 MW net to

   Blue Plains grid
- Solar System produced an additional 0.24 MW of power on average
- Total electricity consumption at Blue Plains averaged 29.8 MW
- DC Water purchased an average of 22.9 MW of electricity from PEPCO



# **Operational Performance Class A Biosolids Production**

## Total Production of Class A Biosolids and Beneficial Reuse by Type



In January, Blue Drop sold approximately 3,483 tons of Bloom; for a total of 18,630 tons towards the FY24 goal of 65,000 tons.

Blue Plains Produced 12,462 tons of biosolids for the month with the remaining 8,979 tons managed though land application contracts.

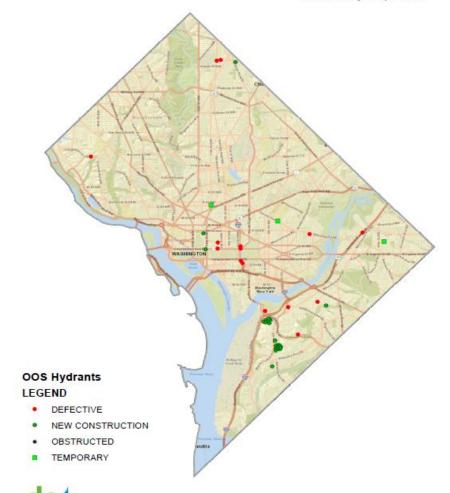


## Fire Hydrant Update



## Map of Public Out-of-Service Hydrants

Feburary 01, 2024



**Prepared By: Distribution Control Branch** 

#### Status Report of Public Fire Hydrants for DC Water Services Committee - February 1, 2024

	November	December	January	February	
	Cmte. Report	Cmte. Report	Cmte. Report	Cmte. Report	
	(November 2, 2023)	(December 1, 2023)	(January 5, 2024)	(February 1, 2024)	
Public Fire Hydrants:	9,837	9,839	9,840	9,840	
In Service:	9,799	9,796	9,802	9,796	
Marked Out-of-Service (OOS)	38	43	38	44	
OOS - defective requiring repair/replacement		15	11	15	
% OOS requiring repair or replacement (DC Water goal is 1% or less OOS)		0.15%	0.11%	0.15%	
,					
OOS - due to inaccessibility or		20	27	[20]	
temp construction work	24	28	27	29	

Note: The number of public hydrants in the DC Water system fluctuates; this number fluctuates as hydrants are added and removed during development or construction activities as well as at the request of the Fire Dept.

as of February 1, 2024

Break	0-7	8-14	15-30	31-60	61-90	91-120	> 120	Total	
		Days	Days	Days	Days	Days	Days	Days	Total
	Hydrant Needs Repair/Investigation	3	0	0	0	0	0	0	3

Breakdown of Public Fire Hydrants Out-of-Service (OOS)

Breakdown of Others	0-7	8-14	15-30	31-60	61-90	91-120	> 120	Total
	Days	Days	Days	Days	Days	Days	Days	TOTAL
Temporarily OOS as part of operations such as a main repair	1	1	0	0	1	0	0	3
Construction* - OOS	0	0	0	0	2	10	14	26
Obstructed Hydrant – OOS hydrant due to operation impeded by an obstruction.	0	0	0	0	0	0	0	0
Others								29

<sup>\*</sup>Fire hydrants not accessible due to construction activities. Also includes new hydrants which have not yet been commissioned or old hydrants which will be abandoned as part of ongoing construction projects.

<sup>\*\*</sup>Fire hydrants pending replacements are due to constraints outside of our control at this time. Constraints include construction, critical customer impact, large isolation, and critical infrastructure impact.



## Water Quality Update



## **Water Quality Update**

Environmental Quality & Operations Committee February 15, 2024

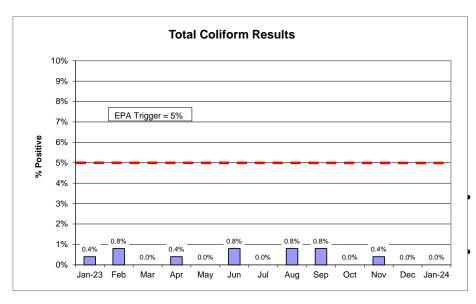


Maureen Schmelling, Director, Water Quality



## **Drinking Water Quality Update**

## **Total Coliform Rule**



 240 minimum samples collected each month at over 50 government and commercial buildings

## **Lead and Copper Rule**

July-December 2023	1st Draw	2 <sup>nd</sup> Draw
90 <sup>th</sup> Percentile, parts per billion (ppb)	2.0	4.7
Number of samples	107	106
Number of samples > 15 ppb	0	0

1<sup>st</sup> draw is a one-liter sample collected after minimum six hours of stagnation (no-water use period)

 $2^{nd}$  draw is a one-liter sample collected after the  $1^{st}$  draw and filling and dumping three liters, resulting in between the  $5^{th}$  to  $6^{th}$  liter of water which is water that stagnated in the service line.

90<sup>th</sup> Percentile should be less than 15 ppb (We are in compliance)



# CIP Quarterly Update



## dc

## Agenda

- FY24 CIP Quarter 1 Budget & KPI Update
- Report on FY24 Quarter 1 CIP Progress by Service Area
  - Non-Process
  - DC Clean Rivers (DCCR)
  - Blue Plains
  - Sewer
  - Water
  - Lead Free DC (LFDC)



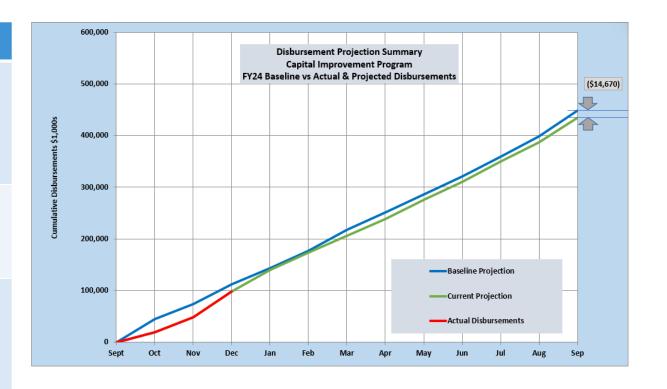
## **CIP Quarterly Update**

### **FY24 CIP Disbursement Performance**

- The Baseline projection for FY24 was developed to better align with the anticipated execution of the planned work. Total Baseline budget is \$448.6M
- The fiscal year 2024 thru Quarter 1 CIP disbursements were \$98M through the end of the first Quarter

### Schedule Key Performance Indicators

	Performance
36	Total KPIs due this year
3	KPIs completed within threshold
3	KPIs forecast outside threshold (>90 days)





## **Non-Process Facilities**

## **FY2024 Progress**

#### **Planning**

- a. Roofing Assessments
- b. HVAC Assessments
- c. Bryant St and Main PS Upgrades, Ames PI Expansion, HQO Terrace Improvement
- d. Anacostia PS & Bryant St PS Parking Modification

#### **Procurement**

These projects are ready for procurement:

- a. Floatable Debris Dock Renovation
- b. Floatable Debris Office Building
- c. Fort Reno Watchman's Lodge & Abandoned Pump Station

#### Construction

These projects are under permit review:

- a. Blue Plains SB-1 Warehouse Reno
- b. North Canal Street Fence

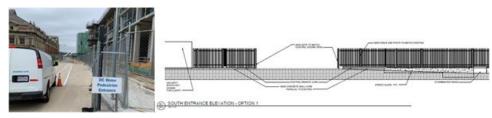
### **Fort Reno Renovation**



**Blue Plains SB-1 Warehouse Renovation** 



#### **North Canal Fence**





## **DC Clean Rivers**

## Projects in **Planning**:

## **RC-T - Piney Branch Tunnel**

NEPA compliance underway – Construction Start May 2026

## Projects in **Design**:

RC-C - Rock Creek Green Infrastructure Project C

25 acres - Construction start March 2025

## Projects in *Construction*:

J - Northeast Boundary Tunnel (\$580M 99% complete)
Placed in operation ahead of consent decree

**PRT-B - Potomac River Tunnel** (\$819M 3% complete) Mobilization and Design underway



b



## **Blue Plains Advanced Wastewater Treatment Plant**

### **FY2024 Progress**

#### **Planning**

- Over 20 Tasks including planning studies at various stages of completion
- Flood Wall Sections A,B&D On hold for FEMA Grant issuance
- Electrical Improvements and Microgrid Roadmap Study

#### Design

- 9 projects under design with total construction value of \$160M
- PdNA Pilot design complete, preparing to bid construction task order
- Filter Underdrain and Backwash System Upgrades design underway
- Headworks Electrical Upgrades at Pre-final design

#### **Procurement**

- 20 Yr Primary Upgrades design/CMAR May NTP
- Renewable Natural Gas negotiating design and construction
- Headworks Structural Upgrades Construction bid received
- Biosolids curing pad and Solar PV construction procurement
- Solar Phase 2 in procurement

#### Construction

- · Reclaimed Final Effluent Pump System ongoing
- Interim Filter Underdrain Repairs 8 filter cells to be completed FY24
- MFU 8 tasks Pump Station 10, DAF Skimmer Replacement, Digester Roof Liner Replacement





## CSS, Sanitary, Stormwater Linear

#### **FY2024 Progress**

#### **Planning**

- Emergency design to repair defect found in East West Outfall Relief Sewers.
- Emergency cleaning and design of Anacostia Main Interceptor
- Facilities Plan Update for linear assets is near completion.
- Planning multiple projects along Potomac Interceptor

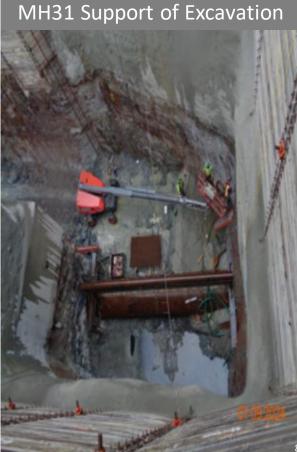
### Design

- Procuring design firm for Glover Park Sewer collaborative delivery
- Designing 4 cured-in-place pipe (CIPP) projects throughout District
- Designing multiple projects along Potomac Interceptor

#### Construction

- MH31-30 Rehabilitation 60% complete
- Soapstone Valley Park Sewer Rehabilitation: 85% complete
- Started construction on Piney Branch Trunk Sewer Rehab and Northeast Boundary Trunk Sewer







## CSS, Sanitary, Stormwater Linear

## **Anacostia Main Interceptor Emergency** Repair

- Collapse week of December 18, 2023
- Last inspected between August 2022 and February 2023
- Phase 1:
  - Bypass pumping
  - Installation of trench box
  - Temporary repair of the collapsed pipe.
- Phase 2:
  - Cleaning contractor is mobilizing.
  - Lining of the pipe from MH 460 to MH-103 (~1,460 lf)















## **Water Linear**

## **FY2024 Progress**

### **Planning**

- · Concept Design of five projects
- Six projects transitioned to design.

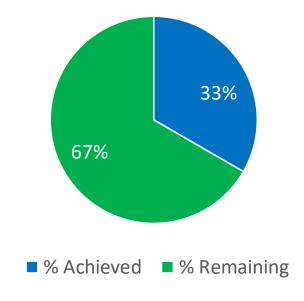
## Design

- Completed bid documents for Small Diameter Water Main (16C)
- CFR/NEPA for 8 projects ongoing
- Six projects in design (pre-final)

#### Construction

- Completed approx. 3.5 miles of SDWM compared to current budget plan of 11 miles
- Six contracts in active construction

## Small Diameter Watermain Replacement (miles) Annual Plan





## **FY2024 Progress**

Completed <u>5,000th replacement</u> (since Oct 1, 2019), with 492 replacements completed in FY24 Q1.

Construction Packages 15 & 16 were bid in Dec 2023 and awarded in Jan 2024

Co-Hosted 2 workshops: Ward 8 with Black Millennials for Flint (BM4F) and a local AWWA on Lead Removal and Procurement

Supported EPA event "Get the Lead Out - GLO" with homeowner testimonials on LFDC

Re-established District Funding (\$2.8M+) for the Lead Pipe Replacement Assistance Program (LPRAP) completed 110+ private side replacements.

Continued Canvassing Efforts for pkgs 5-16 and Presented at 6 ANC Meetings in Wards 3, 6, and 8.

## **Lead Free DC Program**



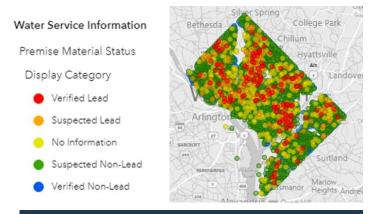


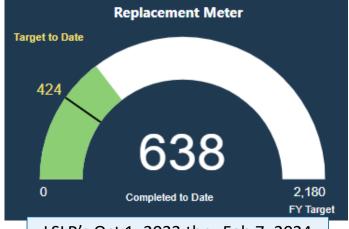


## Impacts of Lead Free DC on CIP

## Lead & Copper Rule Improvements

- DC Water is largely ahead of the curve on proposed requirements from EPA
  - Achieve 100% removal of pipe
  - Locate and identify legacy services
  - Improve tap sampling
  - Lower lead action level
  - Strengthen protections to reduce exposure
- DCW will accelerate identification on unknowns





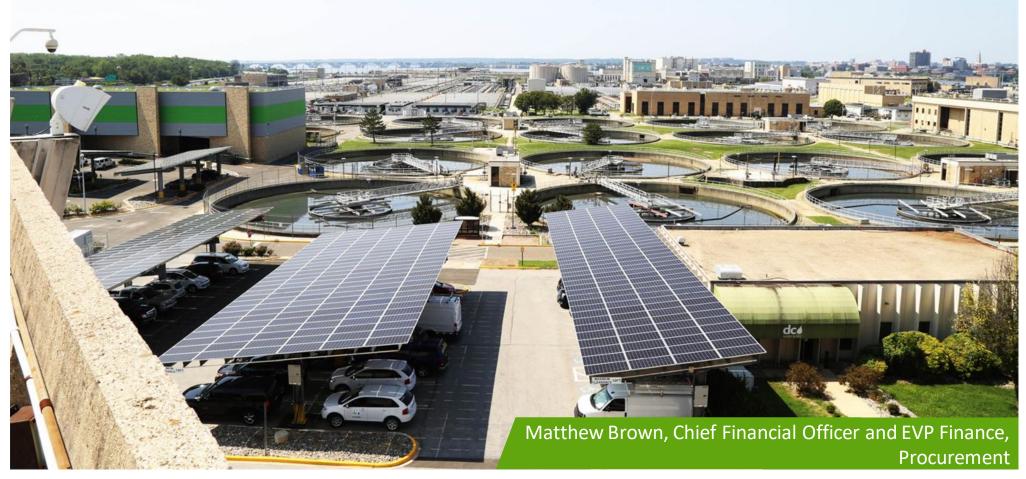
LSLR's Oct 1, 2023 thru Feb 7, 2024



## Proposed FY2024 - FY2033 Capital Improvement Program



Proposed FY2024 – FY2033 Capital Improvement Program
Environmental Quality & Operations Committee
February 15, 2024





## **Purpose**

- Review the management's budget proposal
- Obtain committee's recommendation to the Board on the following:
  - Proposed FY 2024 FY 2033 Capital Improvement Program (disbursements and lifetime), including amendments to the FY 2024 Capital Disbursements budget



## **The Budget Process**

- Preparation of Proposed Budget
- **/**
- Board review of proposals
  - Two months of detailed review by Finance and Budget, Environmental Quality and Operations, and Retail Rates Committees
- Customer Briefings and Feedback
  - Wholesale Customer Briefing
  - Office of People's Counsel Budget Briefing
    - **/**

- Town Halls
- Board Budget Adoption on March 7, 2024
- Public Hearing on May 9, 2024
- Board adoption of rates on July 3, 2024
- Fiscal year begins on October 1, 2024





## **Budget & Rates Adoption Calendar**

Timeline	Activity	Status
January 4	Budget Workshop with Board of Directors	$\checkmark$
January 12	Wholesale Customer Briefing	✓
January 19	Office of People's Counsel Briefing	✓
	Committee Discussions & Reviews	
January 18	Environmental Quality & Operations	✓
January 23	Joint DC Retail Water & Sewer Rates and Finance & Budget Committee	✓
February 1	Board Meeting (No Board Action Required)	
	Committee Reviews, Recommendations & Actions	
February 15	Environmental Quality & Operations	
February 22	Finance & Budget	
February 27	DC Retail Water & Sewer Rates	
March 7	Board Adoption of Budgets	
April	Submit Budget via the District to U.S. Congress	
April – June	Rates Public Outreach & Town Halls & Public Hearing on May 9	
July 3	Board Adoption of Rates	
October 1	Fiscal Year 2025 Begins	



## DC Water's Budget

- The Board of Directors has the sole authority to adopt DC Water's budget
- When DC Council established DC Water, they emphasized the importance of need for independent financial control in DC Code § 34–2201.01:
  - (3) The financing requirements for water distribution and sewage collection, treatment, and disposal systems, including the ability to fund capital programs without undue reliance on the general obligation credit of the District, are substantial and require financial resources independent of other District funds
  - (4) Creation of an independent authority with secure funding separated from the District's General Fund to
    oversee water and sewer operations for the District and surrounding jurisdictions will enhance the financial
    viability of water distribution and sewage collection, treatment, and disposal systems in the District and enhance
    the District's ability to meet its statutory obligation to provide sanitary sewer services to the surrounding
    jurisdictions
  - (7) It is in the **best interest** of the District, its citizens, and the surrounding jurisdictions that the Council establish an **independent water and sewer authority** to achieve the following goals and objectives
    - **(B)** To expedite the repair, replacement, rehabilitation, modernization, and extension of existing water distribution and sewage collection, treatment, and disposal systems **including the financing, on a self-sustaining basis, of capital and operating expenses** relating thereto



## DC Water's Budget

- DC Council and the U.S. Congress enacted legal requirements for DC Water's budget:
  - 7 affirmative [Board member] votes shall be required for approval of the Authority's budget. See D.C. Law11-111; D.C. Code § 34–2202.04(b)(4)(j)
  - The District of Columbia Water and Sewer Authority established pursuant to Chapter 22 of Title 34 shall prepare and annually submit to the Mayor, for inclusion in the annual budget, annual estimates of the expenditures and appropriations necessary for the operation of the Authority for the year. All such estimates shall be forwarded by the Mayor to the Council for its action pursuant to §§ 1-204.46 and 1-206.03(c), without revision but subject to his recommendations.

    Notwithstanding any other provision of this chapter, the Council may comment or make recommendations concerning such annual estimates but shall have no authority under this chapter to revise such estimates. See Pub. L. 104-184, § 4(a); D.C. Code § 1-204.45a(a)

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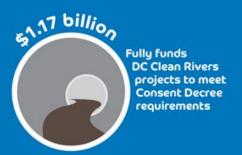


## Management's Recommendation: Ten-Year CIP

- The **proposed ten-year CIP budget of \$7.74B** includes annual spending estimates for capital construction, capital equipment and DC Water's share of the Aqueduct's capital projects
  - This is a \$792M increase over the Board-approved CIP for the ten-year period
- The **proposed lifetime budget is \$16.1B** and covers total commitments, including labor, for active projects prior to, during, and beyond the ten-year window

Cash Disbursements (\$ in thousands)									F	Y 2024 - F	Υ	2033 Disbur	ser	nent Plan									Last Years	(Increase)/	Lifetime
	F	Y 2024	F	Y 2025	F	FY 2026	F	Y 2027	F	Y 2028		FY 2029	F	Y 2030	F	Y 2031	F	Y 2032	FY 20	33	10-	yr Total	I0-yr	Decrease	Budget
NON PROCESS FACILITIES	\$	13,074	\$	19,900	\$	25,190	\$	27,461	\$	17,775	\$	35,413	\$	23,100	\$	13,283	\$	14,977	\$ 7	,345	\$	197,518	\$ 141,246	\$ (56,272	\$ 362,044
WASTEWATER TREATMENT		65,150		103,291		133,487		146,143		164,601		194,637		185,233		174,807		91,587	74	,666		1,333,603	1,180,881	(152,722	3,348,779
COMBINED SEWER OVERFLOW		123,793		213,408		231,323		216,615		193,750		154,800		92,363		4,041		-		-		1,230,093	1,062,875	(167,218	3,430,748
STORMWATER		7,293		13,565		7,958		3,804		4,532		3,268		6,697		9,432		6,772	5	,231		68,551	72,241	3,690	157,075
SANITARY SEWER		80,599		92,235		123,854		118,639		169,037		287,816		249,471		227,771		269,312	236	,846		1,855,580	1,796,116	(59,464	2,897,505
WATER		158,736		222,494		252,395		250,278		266,256		268,591		279,184		207,235		219,880	227	,979		2,353,028	2,011,801	(341,227	4,738,104
CAPITAL PROJECTS	\$	448,646	\$	664,893	\$	774,206	\$	762,940	\$	815,951	\$	944,526	\$	836,048	\$	636,568	\$	602,528	\$ 552,	067	\$ 7	,038,373	\$ 6,265,159	\$(773,214	\$ 14,934,255
CAPITAL EQUIPMENT		30,535		31,477		31,839		30,523		37,169		37,169		37,169		37,169		37,169	37	,169		347,390	347,390	-	347,390
WASHINGTON AQUEDUCT		35,546		35,770		35,770		35,770		35,770		35,770		35,770		35,770		35,770	35	,770		357,472	338,518	(18,954	357,472
ADDITIONAL CAPITAL PROJECTS	\$	66,081	\$	67,246	\$	67,609	\$	66,293	\$	72,939	\$	72,939	\$	72,939	\$	72,939	\$	72,939	\$ 72,	939	\$	704,863	\$ 685,908	\$ (18,954	\$ 704,863
LABOR																									\$443,166
TOTAL CAPITAL BUDGETS	\$	514,727	\$	732,139	\$	841,815	\$	829,232	\$	888,890	\$	1,017,465	\$	908,987	\$	709,507	\$	675,467	\$ 625,	006	\$ 7	,743,235	\$ 6,951,067	\$ (792,168	\$ 16,082,284
								·														·			
Prior Year Board Approved CIP	\$	604,671	\$	784,064	\$	838,249	\$	859,188	\$	892,646	\$	841,454	\$	677,036	\$	507,647	\$	444,676	\$	-	\$	6,951,067			
Delta (inc)/dec		\$89,944		\$51,925		(\$3,566)		\$29,955		\$3,756		(\$176,011)		(\$231,951)		(\$201,860)		(\$230,791)	(\$625	,006)		(\$792,168)			

## DC Water Budget Overview FY2024-2033 Proposed Capital Investments of \$7.7 billion





Invests in process equipment, specialized vehicles, and information technology infrastructure Invests in the Aqueduct's capital infrastructure



#### \$732M

To continue lead service line replacements

Continues investment in Water & Sewer infrastructure



### \$1.62 billion

Ramps up to 1.5% replacement for small diameter water mains per year



### \$1.92 billion

Ramps up to 1% rehabilitation for small/local sewer lines per year



including the Historic Main Pump
Station, Bryant Street Pump
Station, non-process buildings
at Blue Plains, laboratory
upgrades, and solar
installations

Renovates Non-Process Facilities



Funds rehabilitation and upgrades at Blue Plains



## **Action Item: Proposed CIP Budget**

## ACTION ITEM: FY 2024 – FY 2033 Proposed Capital Improvement Program (Ten-Year Disbursement Plan and Lifetime Budget)

DC Water presents its capital improvement program on two different bases:

- a. **Ten-Year Disbursement Plan** The cash disbursement-based capital plan is utilized to forecast the timing and amount of capital financing, which is the primary basis for projected retail rate increases.
- Lifetime Budget The project lifetime budget reflects the total costs of each project active during the ten-year planning period. These costs include historical and projected spending, project contingencies, and labor (listed as a separate line item).

As shown in Attachment A-1, the Board of Directors will be asked to approve the following:

- 1. FY 2024 FY 2033 Disbursement Plan \$7.74 billion, including the Proposed Revised FY 2024 budget of \$514.7 million
- 2. Lifetime Budget \$16.08 billion

					FY 2024 - F	Y 2033 Disburse	ment Plan					Last Years	(Increase)/	Lifetime
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	10-yr Total	I0-yr	Decrease	Budget
Facility Land Use	\$13,074,148	\$19,899,722	\$25,189,941	\$27,460,830	\$17,774,560	\$35,413,360	\$23,100,090	\$13,282,590	\$14,977,360	\$7,345,430	\$197,518,032	\$141,245,733	(\$56,272,299)	\$362,044,066
NON PROCESS FACILITIES	\$13,074,148	\$19,899,722	\$25,189,941	\$27,460,830	\$17,774,560	\$35,413,360	\$23,100,090	\$13,282,590	\$14,977,360	\$7,345,430	\$197,518,032	\$141,245,733	(\$56,272,299)	\$362,044,066
Liquid Processing	\$31,048,728	\$37,484,373	\$62,214,984	\$82,863,496	\$90,298,000	\$109,684,150	\$99,566,930	\$106,730,770	\$64,331,770	\$59,904,400	\$744,127,601	\$625,265,688	(\$118,861,913)	\$1,383,302,353
Plantwide	\$21,440,084	\$35,956,649	\$43,146,688	\$49,890,832	\$43,836,600	\$45,110,650	\$27,192,330	\$18,601,890	\$3,488,790	\$3,152,650	\$291,817,163	\$301,808,762	\$9,991,599	\$542,511,511
Solids Processing	\$11,166,208	\$28,652,274	\$27,041,176	\$10,790,136	\$29,141,904	\$31,597,830	\$34,274,930	\$38,154,170	\$23,316,940	\$11,608,670	\$245,744,238	\$203,857,210	(\$41,887,028)	\$985,127,586
Enhanced Nitrogen Removal Facilities	\$1,495,382	\$1,198,170	\$1,084,272	\$2,598,760	\$1,324,256	\$8,244,470	\$24,198,440	\$11,320,200	\$449,580	\$0	\$51,913,531	\$49,948,854	(\$1,964,676)	\$437,837,932
WASTEWATER TREATMENT	\$65,150,402	\$103,291,467	\$133,487,120	\$146,143,224	\$164,600,760	\$194,637,100	\$185,232,630	\$174,807,030	\$91,587,080	\$74,665,720	\$1,333,602,533	\$1,180,880,515	(\$152,722,018)	\$3,348,779,382
DC Clean Rivers Program	\$118,913,096	\$204,033,452	\$220,390,158	\$212,583,113	\$189,056,663	\$147,147,462	\$77,719,333	\$0	\$0	\$0	\$1,169,843,276	\$962,607,417	(\$207,235,859)	\$3,266,221,697
Combined Sewer Overflow Program	\$4,879,708	\$9,374,524	\$10,932,822	\$4,031,919	\$4,693,032	\$7,652,799	\$14,643,837	\$4,040,802	\$0	\$0	\$60,249,443	\$100,267,378	\$40,017,935	\$164,526,690
COMBINED SEWER OVERFLOW	\$123,792,803	\$213,407,976	\$231,322,980	\$216,615,032	\$193,749,695	\$154,800,261	\$92,363,170	\$4,040,802	\$0	\$0	\$1,230,092,719	\$1,062,874,795	(\$167,217,924)	\$3,430,748,387
Storm Local Drainage Program	\$491,379	\$3,461,292	\$2,886,366	\$430,646	\$424,035	\$226,443	\$264,562	\$302,681	\$324,394	\$302,681	\$9,114,479	\$10,920,503	\$1,806,024	\$38,639,859
Storm On-Going Program	\$224,568	\$574,996	\$642,534	\$846,220	\$1,083,740	\$1,287,260	\$935,100	\$500,000	\$500,000	\$500,000	\$7,094,418	\$7,566,163	\$471,745	\$11,553,151
Storm Pumping Facilities	\$4,847,323	\$8,068,698	\$2,692,739	\$1,050,183	\$3,024,225	\$1,754,650	\$5,497,260	\$8,490,700	\$5,507,390	\$3,747,260	\$44,680,428	\$46,083,172	\$1,402,744	\$64,226,628
Stormwater Program Managemet	\$1,287,865	\$851,352	\$337,770	\$0	\$0	\$0	\$0	\$138,240	\$439,760	\$680,880	\$3,735,867	\$3,242,574	(\$493,293)	\$13,678,204
Stormwater Trunk/Force Sewers	\$441,724	\$608,525	\$1,398,672	\$1,477,017	\$0	\$0	\$0	\$0	\$0	\$0	\$3,925,938	\$4,428,226	\$502,288	\$28,976,732
STORMWATER	\$7,292,860	\$13,564,862	\$7,958,081	\$3,804,066	\$4,532,000	\$3,268,353	\$6,696,922	\$9,431,621	\$6,771,544	\$5,230,821	\$68,551,129	\$72,240,638	\$3,689,509	\$157,074,574
Sanitary Collection System	\$6,087,171	\$26,323,390	\$36,509,534	\$26,783,380	\$35,728,446	\$108,246,910	\$82,941,630	\$61,528,530	\$113,098,870	\$95,611,860	\$592,859,721	\$491,829,019	(\$101,030,702)	\$774,096,236
Sanitary On-Going Projects	\$13,397,969	\$14,489,438	\$13,643,343	\$13,383,880	\$16,037,200	\$29,818,230	\$26,474,270	\$26,465,890	\$26,963,810	\$26,176,970	\$206,851,000	\$155,609,676	(\$51,241,324)	\$292,096,297
Sanitary Pumping Facilities	\$3,639,346	\$7,259,350	\$9,040,344	\$5,374,521	\$9,016,038	\$18,035,170	\$20,116,590	\$20,951,460	\$32,230,670	\$27,351,080	\$153,014,569	\$201,000,160	\$47,985,591	\$236,064,444
Sanitary Program Management	\$7,495,225	\$3,382,364	\$5,193,600	\$7,889,814	\$10,130,481	\$9,192,210	\$6,269,290	\$748,620	\$0	\$0	\$50,301,604	\$77,312,817	\$27,011,213	\$171,900,257
Interceptor/Trunk Force Sewers	\$49,979,621	\$40,780,436	\$59,467,004	\$65,207,396	\$98,125,320	\$122,523,184	\$113,669,300	\$118,076,130	\$97,018,750	\$87,705,880	\$852,553,020	\$870,364,234	\$17,811,215	\$1,423,347,320
SANITARY SEWER	\$80,599,332	\$92,234,977	\$123,853,825	\$118,638,991	\$169,037,485	\$287,815,704	\$249,471,080	\$227,770,630	\$269,312,100	\$236,845,790	\$1,855,579,913	\$1,796,115,906	(\$59,464,007)	\$2,897,504,554
Water Distribution Systems	\$59,596,455	\$99,259,710	\$117,420,426	\$96,830,370	\$106,484,688	\$113,946,380	\$130,215,120	\$133,780,750	\$141,443,600	\$152,827,460	\$1,151,804,959	\$1,033,288,738	(\$118,516,220)	2,152,848,712
Lead Free DC Program	\$62,338,564	\$83,332,632	\$93,925,392	\$98,920,812	\$99,443,200	\$101,674,367	\$104,866,870	\$42,753,261	\$22,166,058	\$22,166,058	\$731,587,214	\$611,671,598	(\$119,915,616)	\$1,827,131,910
Water On-Going Projects	\$14,106,682	\$15,339,404	\$15,041,104	\$16,157,640	\$15,132,392	\$20,691,000	\$21,601,000	\$20,878,810	\$22,622,770	\$20,403,590	\$181,974,392	\$194,234,952	\$12,260,560	\$280,813,438
Water Pumping Facilities	\$6,276,940	\$8,130,624	\$8,562,160	\$6,142,860	\$7,451,730	\$5,688,940	\$3,625,010	\$1,785,530	\$0	\$0	\$47,663,793	\$57,295,042	\$9,631,249	\$84,432,273
Water Storage Facilities	\$7,461,655	\$5,812,826	\$7,836,632	\$21,093,345	\$31,911,237	\$26,562,030	\$18,875,870	\$8,037,130	\$33,647,710	\$32,582,080	\$193,820,515	\$59,898,591	(\$133,921,925)	\$306,733,553
Water Service Program Management	\$8,955,788	\$10,618,571	\$9,608,800	\$11,132,559	\$5,833,053	\$28,750	\$0	\$0	\$0	\$0	\$46,177,521	\$55,412,240	\$9,234,719	\$86,144,167
WATER	\$158,736,084	\$222,493,766	\$252,394,514	\$250,277,586	\$266,256,300	\$268,591,467	\$279,183,870	\$207,235,481	\$219,880,138	\$227,979,188	\$2,353,028,393	\$2,011,801,161	(\$341,227,232)	\$4,738,104,052
CAPITAL PROJECTS	\$448,645,630	\$664,892,769	\$774,206,461	\$762,939,728	\$815,950,800	\$944,526,245	\$836,047,763	\$636,568,154	\$602,528,222	\$552,066,949	\$7,038,372,719	\$6,265,158,749	(\$773,213,970)	\$14,934,255,015
METER REPLACEMENT	\$3,598,042	\$6,944,106	\$6,829,280	\$5,233,416	\$4,067,184	\$4,067,184	\$4,067,184	\$4,067,184	\$4,067,184	\$4,067,184	\$47,007,950	\$37,831,067	(\$9,176,883)	\$47,007,950
ERP System (Project Zeus)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350,000	\$350,000	\$0
CAPITAL EQUIPMENT	\$26,937,000	\$24,532,395	\$25,009,725	\$25,289,725	\$33,102,229	\$33,102,229	\$33,102,229	\$33,102,229	\$33,102,229	\$33,102,229	\$300,382,217	\$309,209,100	\$8,826,883	\$300,382,217
WASHINGTON AQUEDUCT	\$35,546,040	\$35,769,600	\$35,769,600	\$35,769,600	\$35,769,600	\$35,769,600	\$35,769,600	\$35,769,600	\$35,769,600	\$35,769,600	\$357,472,440	\$338,518,000	(\$18,954,440)	\$357,472,440
ADDITIONAL CAPITAL PROJECTS	\$66,081,082	\$67,246,101	\$67,608,605	\$66,292,741	\$72,939,013	\$72,939,013	\$72,939,013	\$72,939,013	\$72,939,013	\$72,939,013	\$704,862,607	\$685,908,167	(\$18,954,440)	\$704,862,607
LABOR														\$443,166,477
TOTAL CAPITAL BUDGETS	\$514,726,712	\$732,138,870	\$841,815,066	\$829,232,469	\$888,889,813	\$1,017,465,258	\$908,986,776	\$709,507,167	\$675,467,235	\$625,005,962	\$7,743,235,326	\$6,951,066,916	(\$792,168,410)	16,082,284,099
Prior Year Board Approved CIP	\$604,670,700	\$784,063,681	\$838,249,154	\$859,187,756	\$892,646,051	\$841,454,213	\$677,036,073	\$507,646,685	\$444,676,243	\$0	\$6,951,067,266			
Delta (inc)/dec	\$89,943,988	\$51,924,811	(\$3,565,912)	\$29,955,287	\$3,756,238	(\$176,011,045)	(\$231,950,703)	(\$201,860,482)	(\$230,790,992)	(\$625,005,962)	(\$792,168,060)			

## DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY BOARD OF DIRECTORS FACT SHEET

#### **ACTION REQUESTED**

#### PARTICIPATION IN DDOT PROJECT:

## DDOT – Metro Branch Trail from Piney Branch Road NW to Blair Rd NW (Non-Joint Use)

Approval to participate in DDOT's Metro Branch Trail project under the terms of the 2002 Memorandum of Understanding (MOU) between District of Columbia Department of Transportation (DDOT) and DC Water for an amount up to \$2,151,500.00. This amount exceeds the General Manager's approval authority.

PARTY INFORMATION										
PARTY:	SUBS:	PARTICIPATION:								
District Department of Transportation 55 M Street, SE, Suite 400, Washington, DC 20003	DBE and WBE fair share objectives will follow DDOT goals.									

#### **DESCRIPTION AND PURPOSE**

MOU Value, Not-To-Exceed: \$2,151,500.00

MOU Time: 730 Days (2 Years)

Anticipated MOU Start Date: July 15, 2025
Anticipated MOU Completion Date: July 15, 2027

#### Purpose of DC Water's Participation:

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

#### **Scope of DC Water's Participation:**

- Replace 0.40 miles of water mains ranging from six (6) inches to twelve (12) inches and associated valves and appurtenances.
- Replace copper water services two (2) inch and smaller in public and private space.
- 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 for 0.31 miles of the 0.40 miles within the project scope.

#### Federal Grant Status:

 Although the work scope is generally eligible for grant funding, grant funding was not applied to the project because it was procured through DDOT.

AGREEMENT INFORMATION									
Contract Type:	MOU	Award Based On:	N/A						
Commodity:	Design and Construction	Contract Number:	N/A						

#### **BUDGET INFORMATION**

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

#### **ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 2,151,500.00
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%	\$ 2,151,500.00

Jeffrey	F.
Thomp	son

Digitally signed by Jeffrey F. Thompson Date: 2024.02.05 15:04:43 -05'00'

Jeffrey F. Thompson Date Chief Operating Officer and EVP

Matthew T. Brown Date
Chief Financial Officer and EVP
Finance, Procurement and Compliance

Digitally signed by Dan Bae
DN: C=US, E=dan.bae@dcwater.com,
Q=District of Columbia Water and
Sewer Authority, OU=VP of
Procurement & Compliance, CN=Dan
Bae
Date: 2024,02.06 09:13:41-\$5:00'

Dan Bae VP of Procurement Date

David L. Gadis

Date

Chief Executive Officer and General Manager

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

#### **ACTION REQUESTED**

#### **CONSTRUCTION CONTRACT CHANGE ORDER:**

## Small Diameter Water Main Replacement-16A (Non-Joint Use)

Approval to execute a Change Order No. 003 for \$2,042,049.00. The modification exceeds the Chief Executive Officer and General Manager's approval authority.

CONTRACTOR/SUB/VENDOR INFORMATION					
PRIME: Capitol Paving of D.C., Inc. 2211 Channing St NE Washington, DC 20018	*SUBS: E&R Minority Supplier LLC Sterling, VA	DBE	PARTICIPATION: 2.0%		

<sup>\*</sup>The project is still on pace to meet the overall utilization goals of 31.8% DBE and 6% WBE.

#### **DESCRIPTION AND PURPOSE**

Original Contract Value: \$14,157,282.00

Total of Previous Change Orders: \$94,594.16

Current Contract Value: \$14,251,876.16

Value of this Change Order: \$2,042,049.00

Current Contract Value, including this CO: \$16,293,925.16

Original Contract Time: 565 Days (1 Years, 6 Months)

Time extension, this CO:

Total CO contract time extension:

Contract Start Date (NTP):

Anticipated Contract Completion Date:

Cumulative CO % of Original Contract:

0 Days

0 Days

0 Days

Cumulative CO % of Original Contract: 14%
Contract completion %: 23%

#### **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:**

- Replace 3.82 miles of small diameter water mains associated valves and appurtenances.
- Replace copper water services two (2) inches in diameter and smaller in public and private space as needed.
- Replacement 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:**

- Connected the existing 3-inch water services to the proposed water main at 3956 and 3917 Pennsylvania Avenue SE.
- Excavated and removed the installed watermain, appurtenances and fittings, and backfill.

#### **Current Change Order Scope:**

Due to reported water quality and contaminated soil issues that are deemed critical, lining of the
existing water main on Quebec St NW between Fordham Rd NW to University Avenue NW is
required.

- Clean and line utilizing the cured in-place pipe (CIPP) method at each intersection on Quebec St NW, covering approximately 2200 linear feet.
- Olean and line approximately 2200 linear feet of ductile iron water main using six access pits.
- o Full replacement of valves and fire hydrants.
- A temporary bypass system will be set up so that customers will continue to have water service during construction.
- Due to two water main breaks in the past two years and the significant risk of another break in the I-395 Air Rights Tunnel which resulted in a sink hole, water outages, and severe DDOT travel conflicts, it is deemed essential to line the existing 1200 linear feet water main in the I-395 Air Rights Tunnel.
  - Clean and line utilizing the cured in-place pipe (CIPP) method lining approximately 1200 linear feet of existing 8" water main in the I-395 Air Rights Tunnel by 3<sup>rd</sup> St between K St NW and H St NW.
  - o Clean and line approximately 1200 linear feet of 8" water main using three access pits.
  - o Full replacement of valves and fire hydrants.

#### Federal Grant Status:

 Although this construction contract is funded in part by a Federal Grant, the change order is not eligible for grant funding.

PROCUREMENT INFORMATION				
Contract Type: Unit Price Award Based On: Lowest responsive, responsible bidder				
Commodity:	Construction	Contract Number:	200030	
Contractor Market:	Open Market			

BUDGET INFORMATION				
Funding:	Capital	<b>Department:</b> Engineering and Technical Service		ring and Technical Services
Service Area:	Water	Department Head:		William Elledge
Project:	HX, F1	•		

ESTIMATED USER SHARE INFORMATION				
User	Share %	Dollar Amount		
District of Columbia	100.00%	\$ 2,042,049.00		
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%	\$ 2,042,049.00		

Jeffrey F. Thompson Date: 2024.02.0 -05'00'	, ,		1
Jeffrey F. Thompson Chief Operating Officer and EVP	Date	Matthew T. Brown Chief Financial Officer and EVP	Date
Digitally signed by Dan B DN: C=US, E=dan.bae@ O=Digitally columbia W Authority, OU=VP of Prov Compliance, CN=Dan Ba Date: 2024,02.06 09:12:4	dcwater.com, later and Sewer curement & le	Finance, Procurement and Compli	ance /
Dan Bae VP of Procurement	Date	David L. Gadis Chief Executive Officer and Gener	Date al Manager

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