



DC Water's Proposed FY 2025 Budget

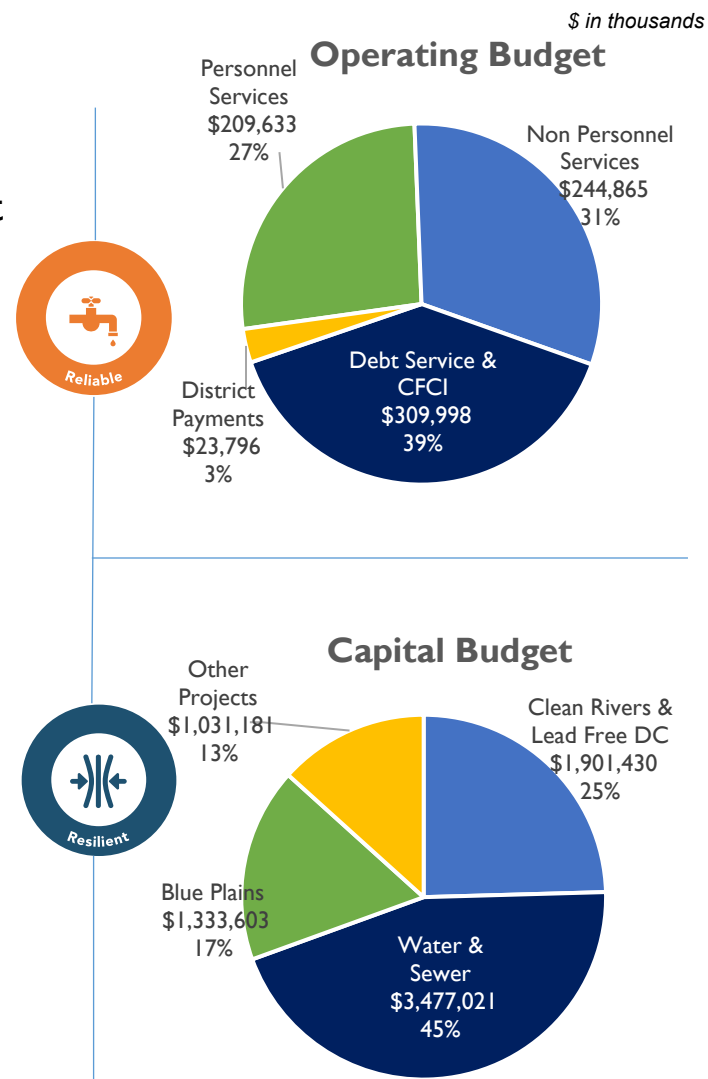
Wholesale Customer Briefing
January 12, 2024



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- 💧 **Bond ratings re-affirmed by all three rating agencies**
- 💧 **Government Finance Officers Association (GFOA) Awards (Triple Crown this Year!)**
 - Distinguished Budget Presentation Award – 23rd consecutive year
 - Certificate of Achievement for Excellence in Financial Reporting – 26th consecutive year
 - Popular Annual Financial Reporting Award (PAFR) - **FIRST!**
- 💧 **Unmodified (“clean”) audit opinion** as of September 30, 2023
- 💧 National Association of Clean Water Agencies (NACWA) **Platinum Award** (11th consecutive year)
- 💧 Completion of the **Northeast Boundary Tunnel** ahead of schedule and within budget
- 💧 Successful Implementation of **Oracle Enterprise Resource Planning (ERP) Applications**: Financials and Projects, Advance Procurement, Time and Labor (OTL), Payroll, HCM, Benefits, Performance, Budgeting and Planning System, and Unifier, among others.

- Includes \$1.2 billion to complete the Clean Rivers Program by 2030
- Allocates \$1.3 billion for major rehabilitation and upgrades at Blue Plains
- Holds the line on authorized headcount at 1,325 by reallocating vacant positions to support in-house security functions and meet increased demand for procurement and compliance activities
- Allocates 58% of the operating budget for operations and maintenance including employee salaries and benefits, and 39% for debt service and PAYGO for the capital program
- Advances the Lead-Free DC Program with \$731.6 million
- Leverages Federal Funds, including those from the Bi-Partisan Infrastructure Law for lead removal, small diameter water line replacement, and Blue Plains upgrades
- Continues investment in aging water and sewer system (\$3.5 billion) in the proposed \$7.7 billion CIP



💧 The increase in operating revenues of \$36.5 million (retail & wholesale) in FY 2025 is needed to support:

- Team Blue **salary and wages** plus **health benefits** to deliver vital water and sewer services, \$8.1 million increase
- Fixed costs like **water usage and energy** for wastewater treatment, \$1 million increase
- Increased costs of **critical spare parts** to ensure operational continuity and contribute to overall efficiency and reliability, \$1 million increase
- Purchase of **clean drinking water** from the Aqueduct, \$1.3 million increase
- Rising cost of **insurance premiums** needed to protect our assets, \$1.1 million increase
- Increased costs for **maintenance and repairs** and various professional service contracts including **hauling and disposal, industrial cleaning** to ensure reliability of our assets and improve key performance indicators, \$8.1 million increase
- CIP investments for programs like **Clean Rivers** and **Lead-Free DC** programs and **water and sewer infrastructure** projects, ten-year increase of \$608 million



Revenue Comparison by Customer Class

- Total revenue is projected to increase by \$36.5 million or 4.1% for FY 2025 and \$49.4 million or 5.3% for FY 2026 mainly due to rate increase
 - Retail Revenue** – Increase by \$27.1 million or 3.8% in FY 2025 and \$41.7 million or 5.7% in FY 2026
 - Wholesale Revenue** – Increase by \$7.7 million or 7.3% in FY 2025 and \$6.7 million or 5.8% for FY 2026 due to operations and maintenance expense projection. Revenue estimates are based on most recent flow data

\$ in thousands	Revised FY 2024	Proposed FY 2025	Proposed FY 2026	FY 2025 vs		FY 2026 vs	
				FY 2024		FY 2025	
				Incr/(Decr)		Incr/(Decr)	
				\$	%	\$	%
Retail Revenue	\$705,362	\$732,470	\$774,131	\$27,108	3.8%	\$41,661	5.7%
Wholesale Revenue							
Potomac Interceptor (PI)	3,547	3,547	3,547	-	0.0%	-	0.0%
Loudoun County Sanitation Authority (LCSA)	9,539	10,450	11,045	912	9.6%	595	5.7%
Washington Suburban Sanitary Commission (WSSC)	74,959	79,591	84,441	4,632	6.2%	4,850	6.1%
Fairfax County	18,475	20,660	21,873	2,186	11.8%	1,212	5.9%
Total Wholesale Revenue	\$106,519	\$114,248	\$120,906	7,729	7.3%	6,658	5.8%
Other Revenue	77,701	79,392	82,479	1,692	2.2%	3,086	3.9%
Rate Stabilization Fund (RSF)	2,000	2,000	-	-	0.0%	(2,000)	-100.0%
Total Revenues	\$891,582	\$928,111	\$977,515	\$36,529	4.1%	\$49,404	5.3%

Proposed rate changes:

- Water and sewer rates increase by 8.0% for FY 2025 and 6.0% for FY 2026
- Proposed CRIAC of \$21.23 per ERU in FY 2025 and \$24.23 per ERU in FY 2026
- Right-of-Way Fee at \$0.19 per Ccf for FY 2025 and \$0.20 per Ccf for FY 2026
- PILOT Fee at \$0.61 per Ccf for FY 2025 and \$0.62 per Ccf for FY 2026

Rates and charges that remain the same:

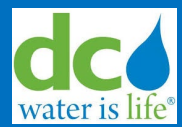
- Customer Metering Fee remains at \$7.75 for 5/8” meters
- Water System Replacement Fee (WSRF) at \$6.30 for 5/8” meters

- Cost of Service Study aligned with rate proposal
- Combined rate increases lower than last year’s forecast

Change in Average Household Charge	Fiscal Year	
	2025	2026
Recommendation	4.8%	6.5%
Previous Forecast	7.0%	6.8%

Billing Overview

Tika Acharya
Manager, Grants and Wholesale Billings



Wholesale Customer* Billing Overview

	Capital	O&M
Annual Estimated Bill		
<ul style="list-style-type: none"> Due on October 1st Adjustment to the 2022 bill: <ul style="list-style-type: none"> Performed FY 2022 settlement of the O&M bill in March 2023 and collected additional \$9.97 million from wholesale customers during the third quarter. Performed FY 2022 settlement of the MJUF bill in March 2023 and refunded \$325 thousand to wholesale customers during third quarter. Performed FY 2023 Mid-Year review of the capital bill in April 2023 and reduced billing by \$16.9 million from wholesale customers. Performed FY 2023 Mid-Year review of the O&M bill in April 2023 and collected additional \$14.4 million from wholesale customers. Performed FY 2023 Mid-Year review of the MJUF bill in April 2023 and collected additional \$1.8 million from wholesale customers. 	X	X
Annual Settlement		
<ul style="list-style-type: none"> Operating - Due NLT 90 days after independent auditor's report <ul style="list-style-type: none"> FY 2023 (March 21, 2024) Capital - Equipment, Indirect, and Labor (I370X) <ul style="list-style-type: none"> Preparation begins after the operating settlement is completed (3rd Quarter) 	X	X
Quarterly Settlement Capital		
<ul style="list-style-type: none"> Capital projects 	X	
WSSC Audits		
<ul style="list-style-type: none"> Performed by WSSC Auditors after the annual settlement <ul style="list-style-type: none"> FY 2020 and FY 2021 (almost completed) and FY 2022 (kick-off) 		X

* Represents WSSC, Fairfax, & Loudoun

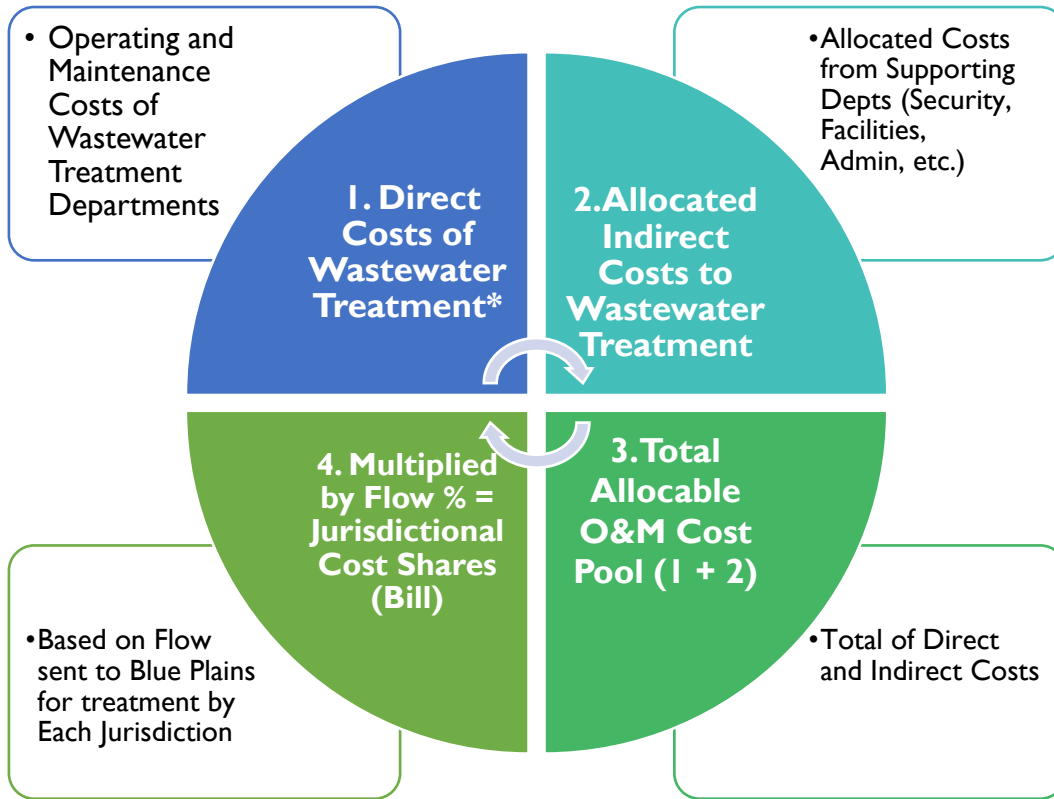
BLUE PLAINS INTERMUNICIPAL AGREEMENT of 2012

[Effective: 4/3/13]

Among the
District of Columbia
District of Columbia Water and Sewer Authority
Fairfax County, Virginia
Montgomery County, Maryland
Prince George's County, Maryland
Washington Suburban Sanitary Commission

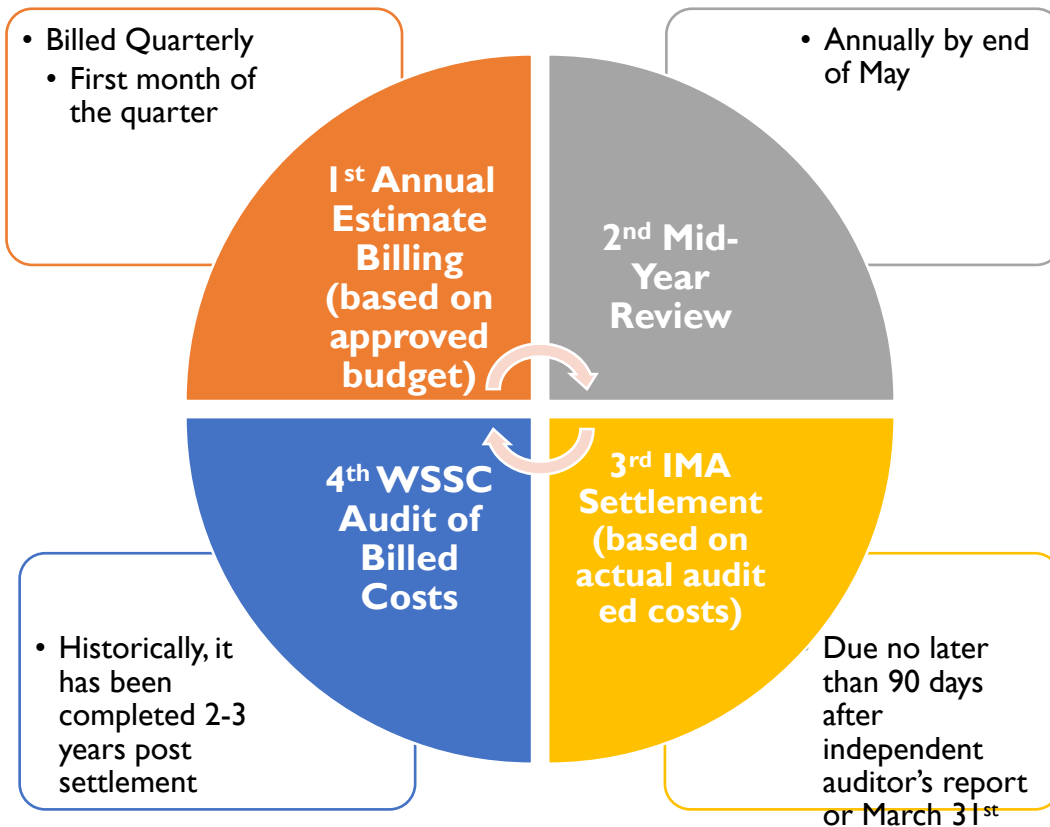


- Both DC Ratepayers and Wholesale Customers are responsible for the costs of joint-use capital projects and operation and maintenance costs of wastewater treatment and multi-jurisdictional user facilities
- The Board-approved operating budget and the CIP are the basis for Annual Estimate Bills for both Operating & Maintenance and Capital
- The Intermunicipal Agreement (IMA) stipulates the basis of the cost allocation for the jurisdictional customers
 - Operating – based on actual flows and adjustments made for user fees and biosolids hauled by Washington Suburban Sanitary Commission (WSSC)
 - Capital - Jurisdictional cost shares for Capital Projects are based on capacity allocation or specially negotiated cost shares with IMA Partners through Council of Government Technical Committees
- Capital Bills are true-up every Quarter based on actual invoices paid during the period. WSSC audits the quarterly bills on behalf of wholesale customers.
- Operating settlement (true-up) is completed within 90 days of the completion of audit of financial statements. WSSC further audits the operating settlement bills on behalf of wholesale customers



- DC Ratepayers and the jurisdictions are allocated costs associated with treating wastewater (Direct Costs)
- This also includes allocated costs associated with “Supporting Departments” like Facilities, and Information Technology (Indirect Costs)
 - For example: Facilities – Costs are allocated based on Sq Ft occupied by departments. Information Technology – Costs are allocated based on CPU in use by departments
- This pool of costs is then allocated based on flows to Blue Plains
 - The proposed budget is based on the actual flow in the most recently completed Fiscal Year
- Wholesale billings are expected to increase from \$106.5 million in FY 2024 to \$114.2 million in FY 2025, mainly because of growth in Personnel Services, Contractual Services, Supplies and Biosolid Costs

*Wastewater treatment operations, maintenance, process engineering, wastewater engineering, resource recovery, and clean water technology - are departments related to Blue Plains and considered direct costs from cost recovery/billing purposes.



- The billing cycle is a year-round one
- Jurisdictions are billed according to the budget
- Bills for the first quarter will be provided in October and are due mid-November; second, third, and fourth quarter bills are sent on January, April and July
- DC Water performs a mid-year review after the second quarter-end to determine additional billing or refund needed
- After the fiscal year end, the true-up (settlement) process is completed which may result in additional billing or refund
- WSSC audits the settlement bills which may result in additional billing or refund

Blue Plains Operating & Maintenance Cost Shares

💧 **Direct Costs** - The cost for operating and maintaining Blue Plains Advance Wastewater Treatment Plant includes personnel, chemicals, contractual services, utilities & rent, among others; these costs are considered direct cost for the Plant

💧 **Indirect Costs** - Costs from supporting departments (e.g. Administration, Security, Facilities, Information Technology, etc.) are allocated to the Wastewater Treatment Plant

💧 The total of direct and indirect costs is then multiplied by the flow to arrive at the estimated billing for jurisdictions

💧 Below is the summary of estimated wholesale revenue from operations and maintenance billing to our wholesale customers for fiscal year 2024 and 2025

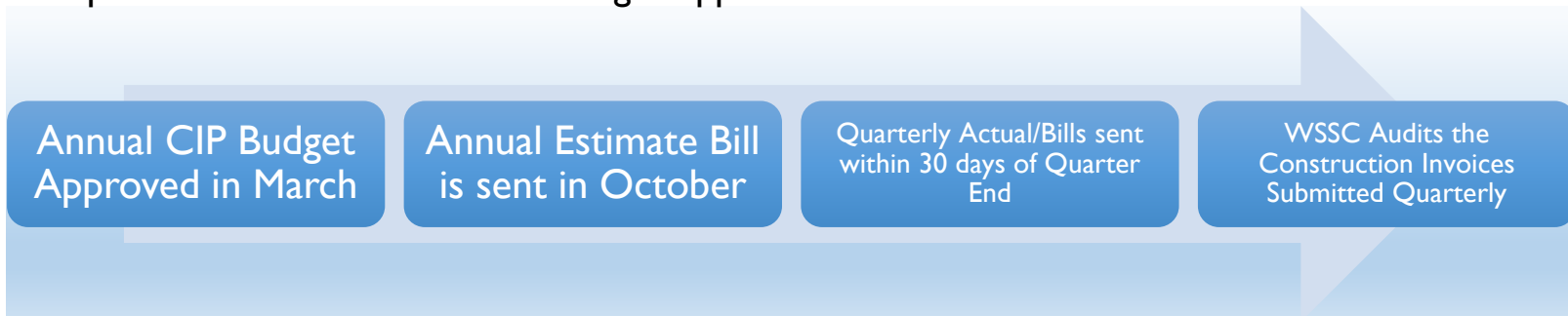
Cost Pool for Jurisdictional Shares Blue Plains	FY25 Proposed Budget (In'000)	FY24 Approved Budget (In'000)	Change	Change %	
Operating & Maintenance Costs for Blue Plains* (Budget)	\$149,103	\$137,773	\$11,330	8.2%	
Estimated Indirect Cost Allocation for Support Services	\$29,821	\$27,555	\$2,266	8.2%	
Total Allocable/Billable Cost Pool	\$178,923	\$165,328	\$13,596	8.2%	
Estimated Jurisdictional Cost Shares (Based on Flow)	FY23 Flow %	FY25 Revenue Estimate	FY24 Revenue Estimate	Change	Change %
District	43.27%	\$77,425	\$71,223	\$6,201	8.7%
WSSC	41.18%	73,673	69,272	\$4,401	6.4%
Fairfax	10.02%	17,927	15,871	\$2,056	13.0%
Loudoun	4.81%	8,608	7,787	\$821	10.5%
Potomac Interceptor	0.72%	1,291	1,174	\$117	10.0%
Total	100.00%	\$178,923	\$165,328	\$13,596	8.2%
Wholesale Revenue from Blue Plains Operating & Maintenance Costs		102,899	95,582	7,317	7.7%
Wholesale Revenue from Multi-Jurisdictional User Facilities		7,802	7,391	411	5.6%
Potomac Interceptor Revenue		3,547	3,547	-	0.0%
Total Estimated Wholesale Revenue		\$114,248	\$106,519	\$7,728	7.3%

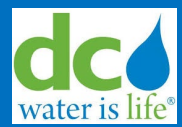
*Departments at Blue Plains include Wastewater Treatment Operations, Maintenance Services, Process Engineering, Resource Recovery, Wastewater Engineering and Clean Water & Technology.

- Capital cost shares for joint use projects are based on capacity allocation or the specially negotiated cost % with Intermunicipal Agreement (IMA) Partners through Council of Government Technical Committees
- Unique codes are used to allocate costs to Jurisdictions correctly. See some cost code examples below:

Work Type	Description	DCW	WSSC	FAIRFAX	LOUDOUN	PI	OTHERS	TOTAL
GIBP	Blue Plains Joint Projects	41.22	45.84	8.38	3.72	0.84	-	100.00
LTCP	Long Term Control Plan	92.90	5.54	1.01	0.45	0.10	-	100.00
MJ73	Anacostia Main Interceptor (AMI)	83.97	16.03	-	-	-	-	100.00
CAPM	Capital Money (100% DC)	100.00	-	-	-	-	-	100.00

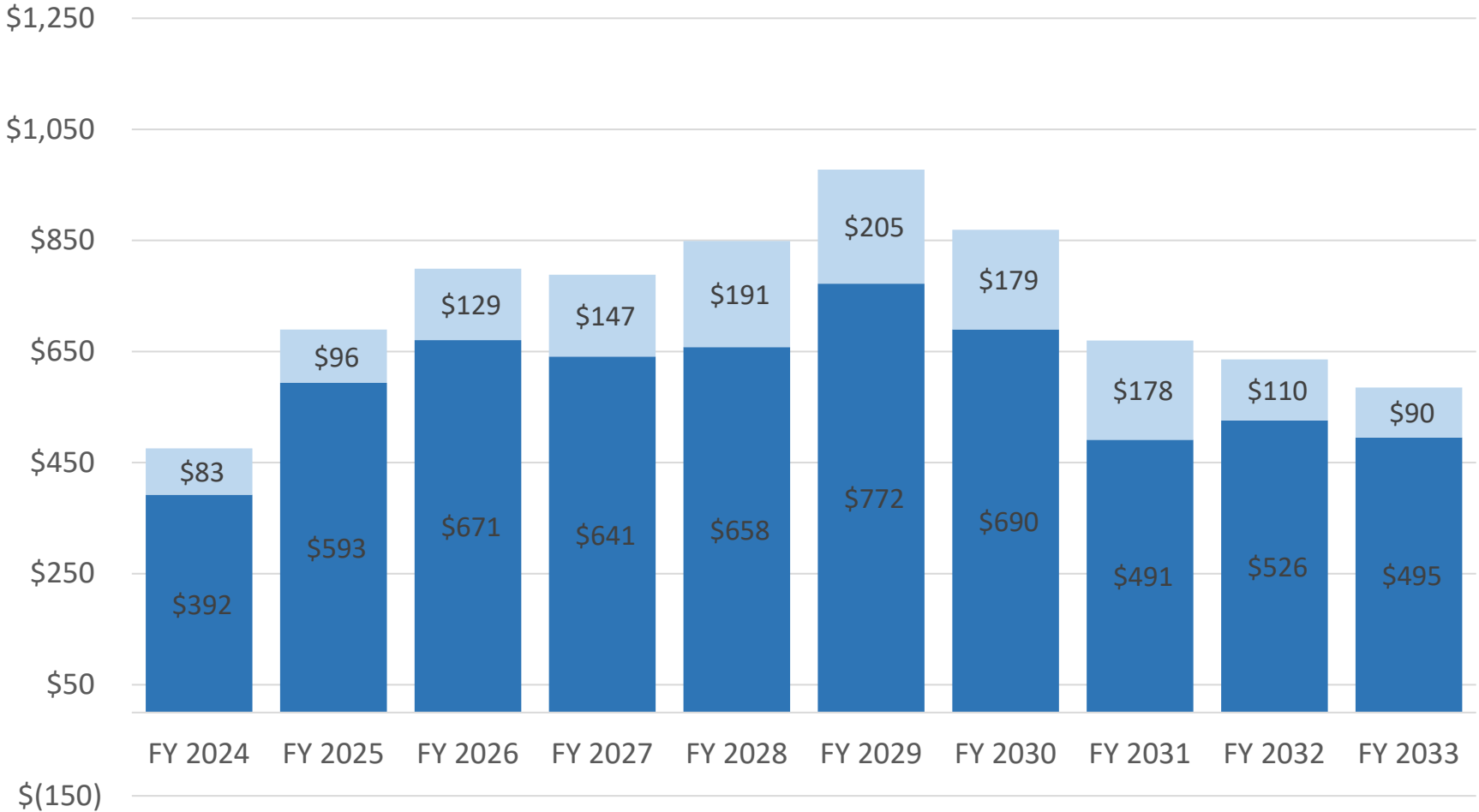
- The process starts in March with Budget Approval and concludes with the Audit:





FY 2024 – FY 2033 Capital Disbursements

\$ in millions



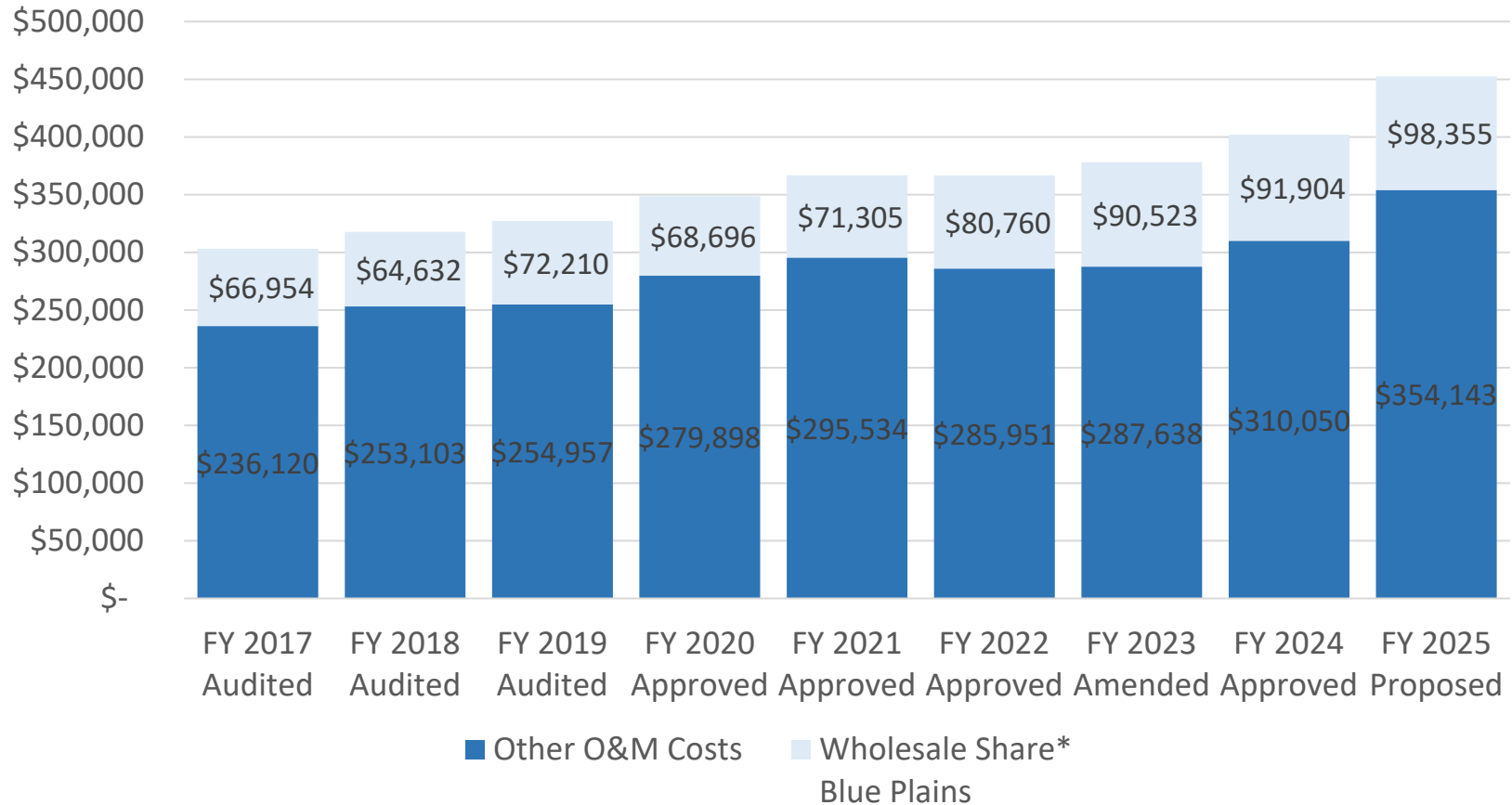
■ Non-Wholesale Share ■ Wholesale Share*

- Include capital projects, capital equipment, and indirect. Excludes Meter replacement and Washington Aqueduct.

- FY 2024 - 2033 Wholesale Share reflects the financial plan

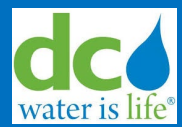
* Represents WSSC, Fairfax & Loudoun

\$ in thousands



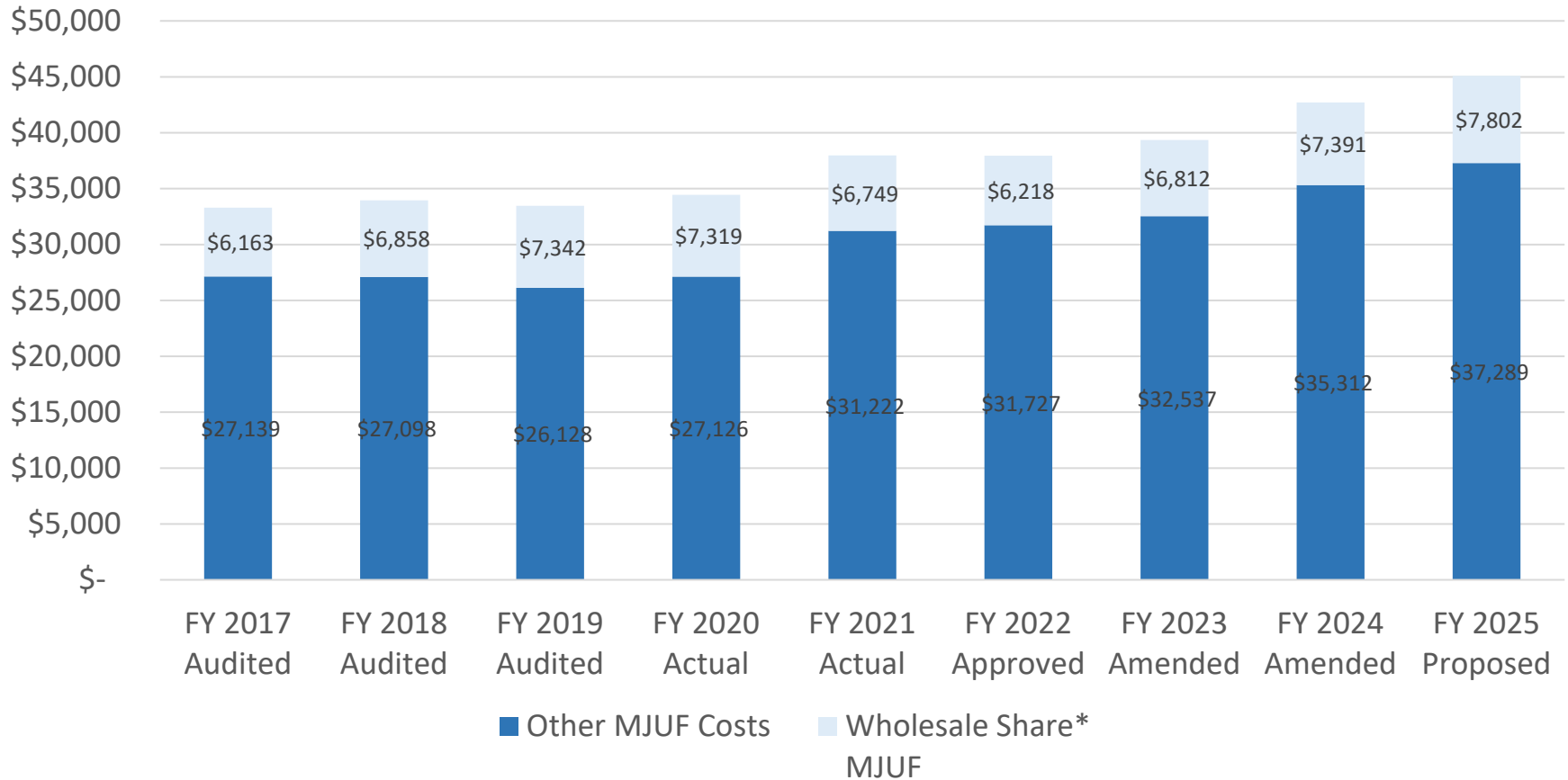
- All figures are net of WSSC biosolid costs
- FY 2020, FY2021 and FY2022 are subject to change after completion of WSSC audit
- FY 2023 is subject to change after completion of settlement, and WSSC audit
- FY 2024 is subject to change after mid year review, completion of financial audit, settlement, and WSSC audit

* Represents WSSC, Fairfax, & Loudoun



FY 2017 – FY 2025 Multi-Jurisdictional Use Facility (MJUF) Costs

\$ in thousands



- FY 2020, FY2021 and FY2022 are subject to change after completion of WSSC audit
- FY 2023 is subject to change after completion of settlement and WSSC audit
- FY 2024 is subject to change after mid year review, completion of financial audit, settlement, and WSSC audit

* Represents WSSC, Fairfax, & Loudoun

Items for Informational Purposes

💧 When new facilities or projects come into operations, or operations change significantly, we are required to:

- Update the IMA Partners through Council of Government (COG) Committees on changes
- Negotiate and update the existing agreed cost shares, if needed
- Update the cost shares methodology to fairly and accurately allocate costs to jurisdictions
- When determined necessary, work on updating the IMA Agreement

💧 Currently, below items are in various stages of negotiation and progress:

- Blue Drop
- COF Building O&M Cost Shares (move from Blue Plains to HQO)
- HQO Building O&M Cost Shares (new facility-2019)
- Fleet Facility at PG County O&M Cost Shares (new facility-2023)

These items are in various stages of progress through COG Committees, Working Groups, and Interactions between DC Water Management and IMA Partners with facilitation from COG.

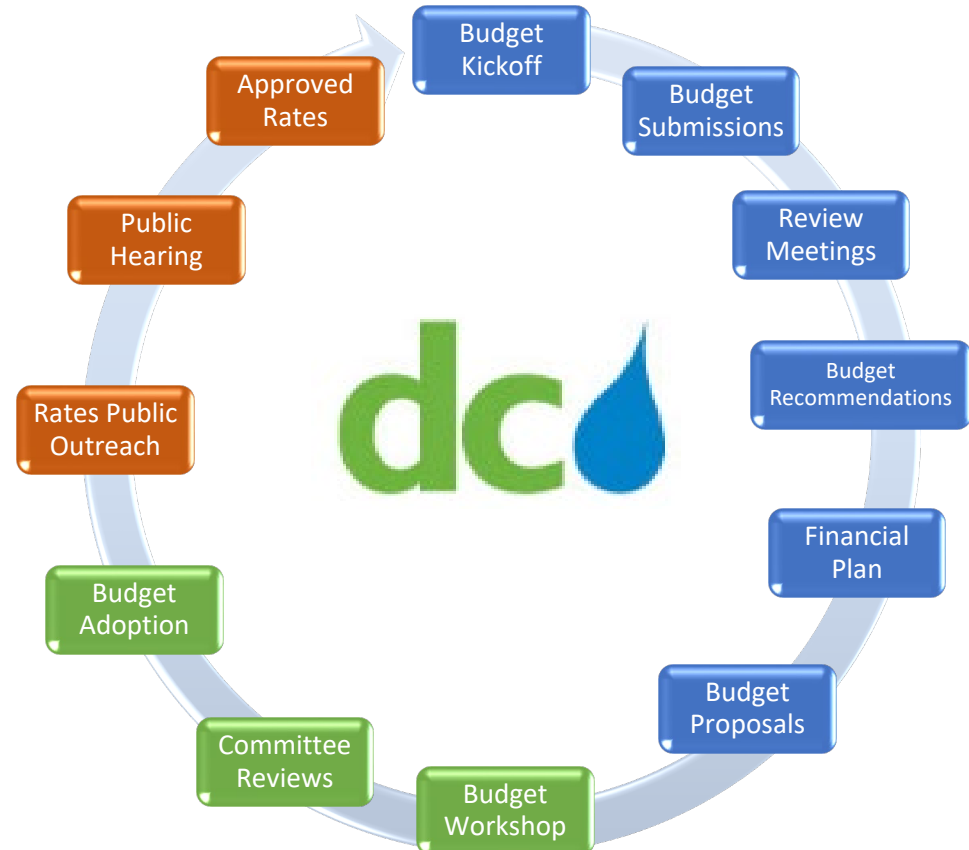
💧 Settlement With Constellation Energy

- Constellation is the Contract Operator of the Combined Heat and Power Facility (CHP) which utilizes the Digestion Bio-gas to provide steam and electrical power to Blue Plains. The settlements are based on contractual performance guarantees and are evaluated at the conclusion of each fiscal year.
- CHP true-up are recently completed for Fiscal Years 2020 through 2023. An amount of \$375,894 in settlement payment is expected soon. Upon receipt, we plan to issue appropriate credits to Wholesale customers.

Budget Overview

**Pade Zuokemefa
Manager, Budget**

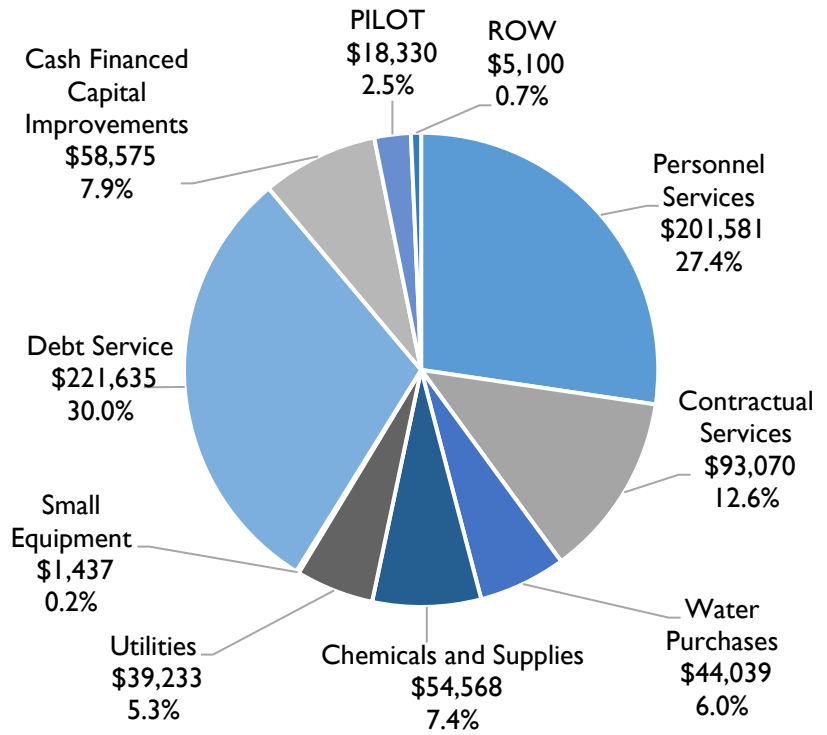
- 💧 **Preparation** of Proposed Budget
- 💧 Board review of proposals
 - Two months of detailed review by Finance and Budget, Environmental Quality and Operations, and Retail Rates Committees
- 💧 Customer **Briefings** and **Feedback**
 - Wholesale Customer Briefing on January 12
 - Office of People’s Counsel Budget Briefing on January 19
 - 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



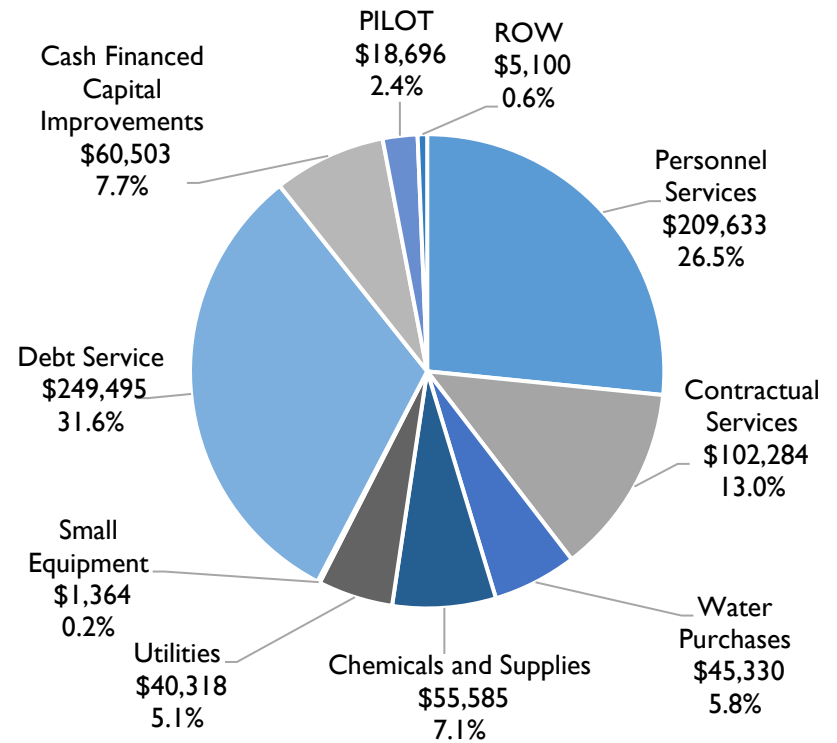
FY 2024 vs. FY 2025 Expenditure Budgets

\$ in thousands

Amended FY 2024 \$737,567



Proposed FY 2025 \$788,307



Operating Budget Comparison by Cost Category

💧 **FY 2025** – Proposed overall operating budget is \$788.3 million, an increase of \$50.7 million or 6.9%

(\$000's)	FY 2023			FY 2024 Amended Budget	FY 2025 Proposed Budget	(Increase)/ Decrease	
	Revised	Actuals	Variance			\$	%
Regular Pay	\$ 137,044	\$ 132,720	\$ 4,324	\$ 147,203	\$ 154,120	\$ (6,918)	-4.7%
Benefits	40,960	40,756	204	45,869	46,409	(541)	-1.2%
Overtime	8,218	9,840	(1,622)	8,509	9,103	(594)	-7.0%
Total Personnel Services	186,222	183,316	2,906	201,581	209,633	(8,052)	-4.0%
Chemical and Supplies	54,628	53,082	1,546	54,568	55,585	(1,017)	-1.9%
Utilities	37,799	37,361	438	39,233	40,318	(1,085)	-2.8%
Contractual Services	88,504	88,309	195	93,070	102,284	(9,213)	-9.9%
Water Purchases	40,334	33,609	6,725	44,039	45,330	(1,291)	-2.9%
Small Equipment	1,108	1,244	(136)	1,437	1,364	73	5.1%
Total Non-Personnel Services	222,373	213,605	8,768	232,347	244,881	(12,533)	-5.4%
Total Operations & Maintenance	\$ 408,595	\$ 396,921	\$ 11,674	\$ 433,928	\$ 454,513	\$ (20,586)	-4.7%
Debt Service	231,232	225,852	5,380	221,635	249,495	(27,860)	-12.6%
PILOT & ROW	23,070	23,070	-	23,430	23,796	(367)	-1.6%
Cash Financed Capital Improvements (CFCI)	23,505	35,730	(12,225)	58,575	60,503	(1,928)	-3.3%
Total Non-O&M	277,807	284,652	(6,845)	303,639	333,794	(30,155)	-9.9%
Total Operating Expenditure	\$ 686,402	\$ 681,573	\$ 4,829	\$ 737,567	\$ 788,307	\$ (50,740)	-6.9%
Capital Labor Charges	(30,435)	(27,813)	(2,622)	(31,974)	(34,087)	2,113	-6.6%
Net Operating Expenditure	\$ 655,967	\$ 653,760	\$ 2,207	\$ 705,593	\$ 754,220	\$ (48,627)	-6.9%

💧 **Blue Plains' Proposed FY 2025 Operating Budget is \$149.1 million**

- Funds salaries, benefits and overtime for 283 FTEs, 8 apprentices, and the career workforce advancement program for existing employees
- Earmarks funding for fixed costs such as electricity, chemicals and water usage needed for wastewater treatment processes
- Allocates funding for the preliminary Per- and Polyfluoroalkyl Substances (PFAS) monitoring program at Blue Plains to meet emerging regulations and new permit requirements

💧 **Major Program Highlights and Budget Changes**

- Reflects significant cost increases for critical spare parts and various professional services including the high-pressure high vacuum, industrial cleaning, biosolids hauling contract, and maintenance of the Combined Heat & Power (CHP) facility
- Replacement of nutrient analysis equipment which is critical for sampling instrumentation consistent with National Pollutant Discharge Elimination System (NPDES) requirement
- Implementation of Laboratory Information Management System (LIMS) for the certification of the lab at Blue Plains

Blue Plains' Share of Total O&M Budget

~33% OF DC WATER'S TOTAL OPERATING ARE DIRECT COSTS FOR BLUE PLAINS (OPERATIONS AND WASTEWATER ENGINEERING)

- 🔹 **FY 2023** – Blue Plains actuals were 98 percent of the revised budget
- 🔹 **FY 2024** – DC Water's overall operating budget remains at \$737.6 million with amendments within Non-O&M cost categories
- 🔹 **FY 2025** – Proposed overall operating budget is \$788.3 million and includes an increase of \$6.2 million for Blue Plains

(\$000's)	FY 2022 Actuals	FY 2023			FY 2024 Budget	FY 2025 Proposed	(Increase)/ Decrease
		Revised	Actual	Variance			
Total Personnel Services	\$ 36,963	\$ 38,122	\$ 37,607	\$ 514	\$ 42,611	\$ 43,669	\$ (1,057)
Chemicals	29,858	44,824	41,876	2,948	43,978	43,878	101
Supplies	4,818	5,199	6,837	(1,637)	5,173	6,815	(1,642)
Electricity	22,835	22,634	19,752	2,882	22,148	22,723	(575)
Natural Gas	1,121	1,112	1,215	(103)	1,569	1,642	(72)
Water Usage	3,587	3,825	3,060	765	3,639	3,467	172
Others (telecoms, rentals etc)	275	332	357	(24)	353	354	(1)
Subtotal - Utilities	27,818	27,903	24,384	3,519	27,709	28,185	(476)
Biosolids Hauling	4,834	4,533	5,195	(662)	4,462	5,278	(816)
CHP O&M Fee	5,034	5,100	5,212	(112)	5,445	5,691	(246)
Others (maintenance, training, software etc)	10,872	10,949	12,040	(1,091)	12,476	14,741	(2,265)
Subtotal - Contractual Services	20,740	20,582	22,448	(1,865)	22,383	25,710	(3,327)
Small Equipment	523	663	559	104	1,009	846	162
Total Non-Personnel Services	83,756	99,172	96,104	3,069	100,252	105,434	(5,182)
Blue Plains O & M Costs	\$ 120,719	\$ 137,294	\$ 133,711	\$ 3,583	\$ 142,863	\$ 149,103	\$ (6,240)
Non Blue Plains O & M Costs	239,603	271,301	263,210	8,091	291,065	305,410	(14,345)
Total Operations & Maintenance	\$ 360,322	\$ 408,595	\$ 396,921	\$ 11,674	\$ 433,928	\$ 454,513	\$ (20,585)
Non O & M Costs	270,316	277,807	284,652	(6,845)	303,639	333,794	(30,155)
Total Operating Budget	\$ 630,638	\$ 686,402	\$ 681,573	\$ 4,829	\$ 737,567	\$ 788,307	\$ (50,740)

FY 2025 Blue Plains Operating Budget Drivers

💧 The Proposed FY 2025 budget of \$149.1 million for Blue Plains cluster includes an increase of \$6.2 million for the following:



Contractual Services – Increase of \$3.3 million for various **professional services** including the high-pressure high vacuum, industrial cleaning, WSSC biosolids hauling contract, and CHP contract; **maintenance requirements** (operational facilities, critical equipment, and software systems) and other **new and ongoing programs** for PFAS monitoring and lab certification



Supplies – Increase of \$1.6 million due to significant cost increases for critical parts



Personnel Services – Increase of \$1 million mainly for salary adjustments including vacancies, steps and merit increases consistent with union agreement



Utilities – Increase of \$0.5 million is mainly for electricity costs

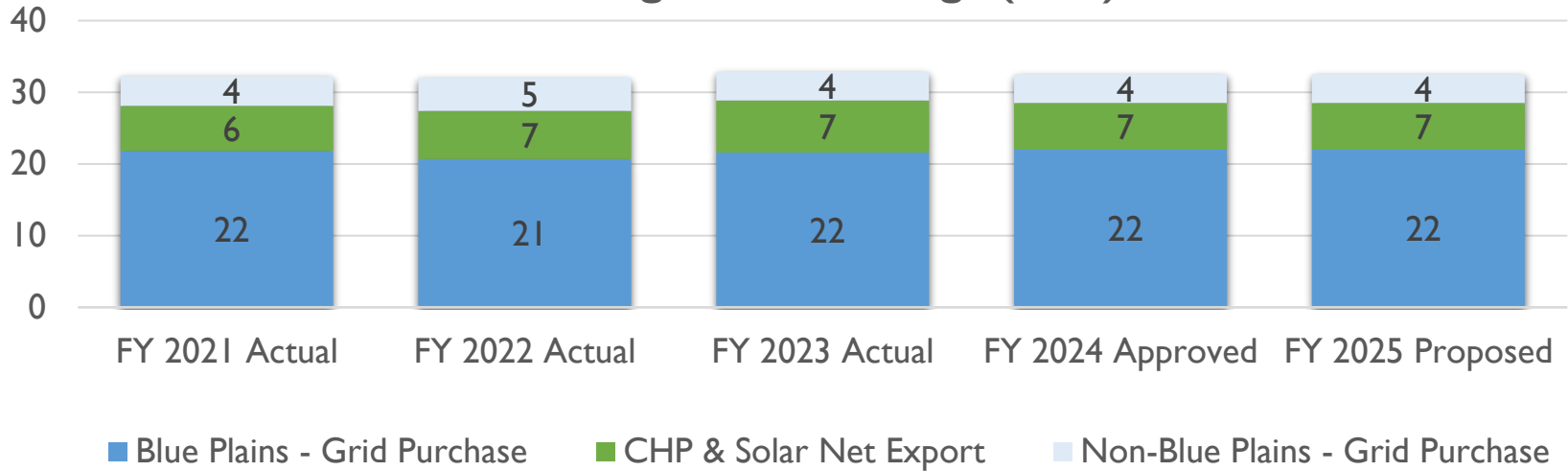


Small Equipment – Decrease of \$0.2 million for purchase of small equipment



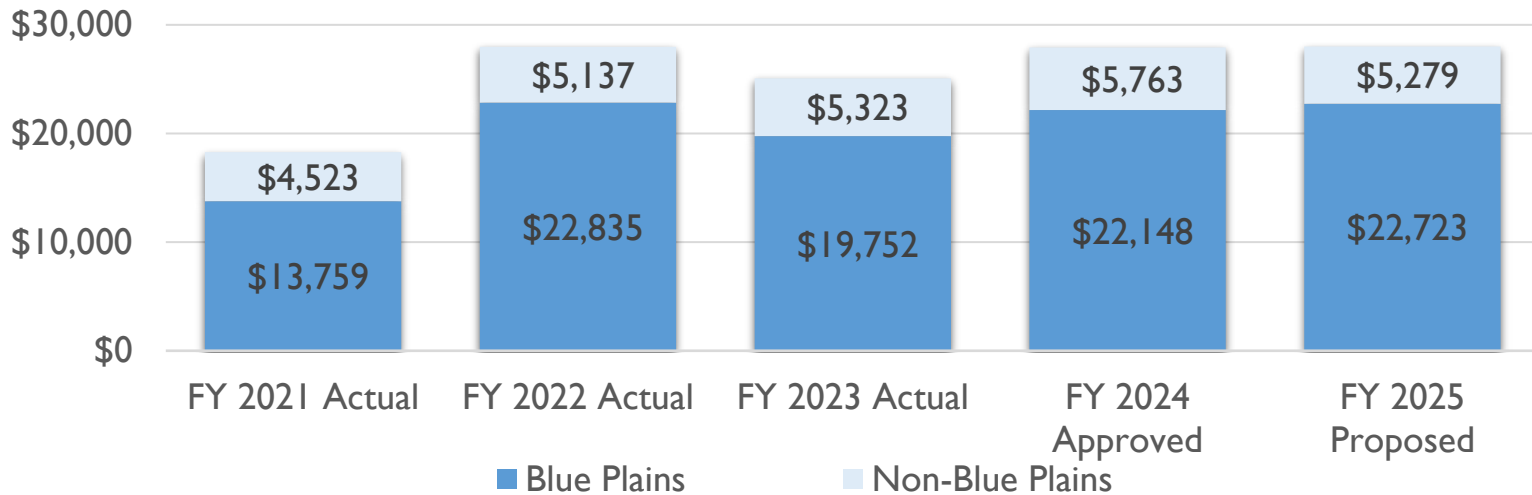
Chemicals – Relatively flat compared to the approved FY 2024 budget

Average Electric Usage (MW)



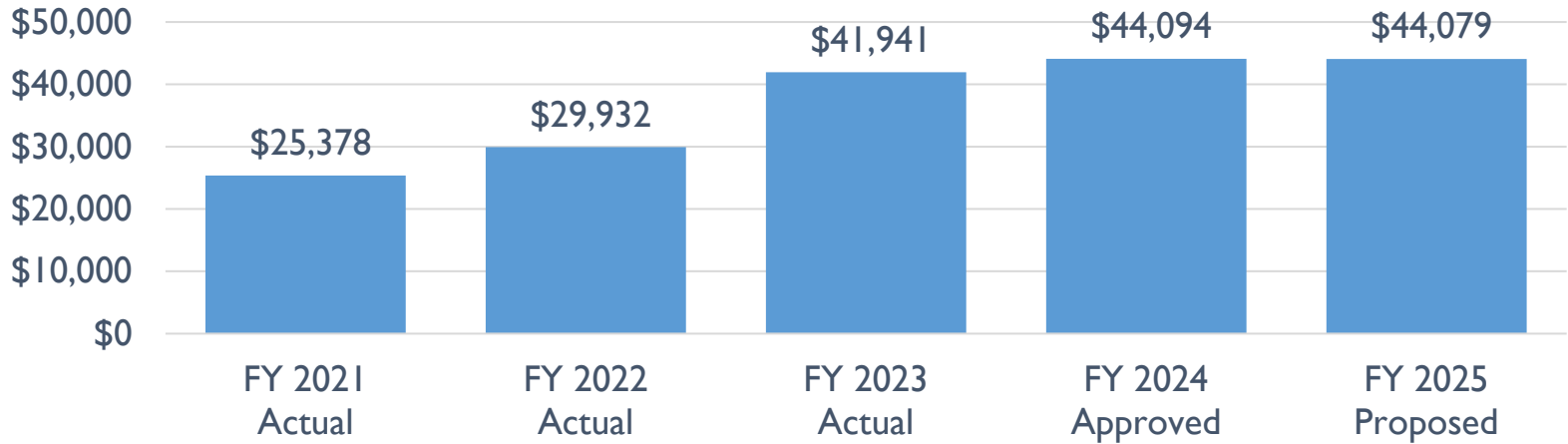
\$ in thousands

Electricity Expenditure

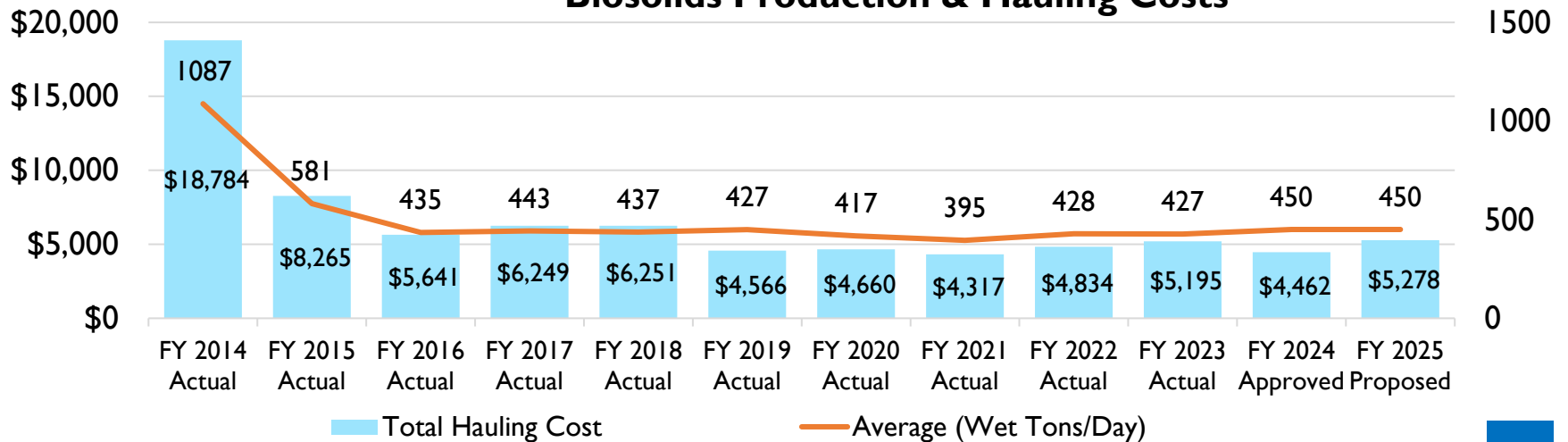


\$ in thousands

Chemicals



Biosolids Production & Hauling Costs



- Personnel - Overtime during emergencies, increased healthcare cost, lower than anticipated vacancy rate, outcome of compensation assessments and other leave adjustments typically funded by vacancies
- Union Agreement – Impacts of any changes to the Labor Compensation Agreement with the five unions which expired September 30, 2023
- Chemicals - Market volatilities, unit prices, rain events, process optimization
- Utilities - Market volatilities, onsite energy optimization, solar project output & timeline
- New Facilities - Parts, equipment and maintenance requirement for tunnels, treatment facilities and the new buildings for Fleet Services and Sewer Services that recently became operational
- Biosolids/BLOOM - Hauling/marketing of 70,000 tons
- Litigation & Insurance - Impacts of unanticipated legal cases and insurance policy requirements

Wastewater Operations

Nicholas Passarelli - VP, Wastewater Operations

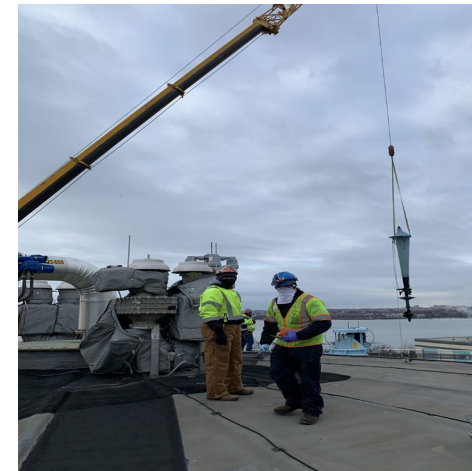
Shawna Gill – Interim Director, Operation and Process Engineering

Elkin Hernandez – Director, Maintenance Services

Chris Peot – Director, Resource Recovery

Haydee De Clippeleir – Director, Clean Water Quality and Technology

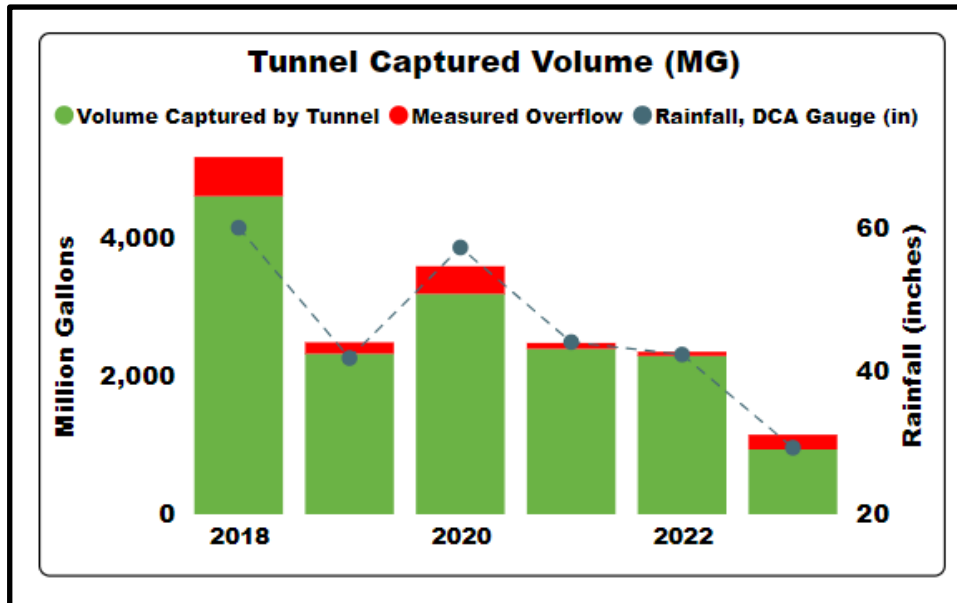
- ❑ Compliance with National Pollutant Discharge Elimination System (NPDES) Permit
 - Full compliance with NPDES permit
 - Received National Association of Clean Water Agencies (NACWA) Platinum Award for eleven consecutive years
 - Total volume treated, million gallons (MG)
 - Complete Treatment – 101,102 MG
 - Wet Weather Treatment to Outfall 001 – 166 MG



☐ Oct 2022 - Sep 2023

- Over **1.1 billion** gallons captured
- Over **1,160 tons** of trash, debris, and other solids captured

☐ Exceeding predicted capture rate (91% > 80%)



Over 15.7 billion gallons of flows were captured and treated and over 10,000 tons of trash, debris, and other solids removed



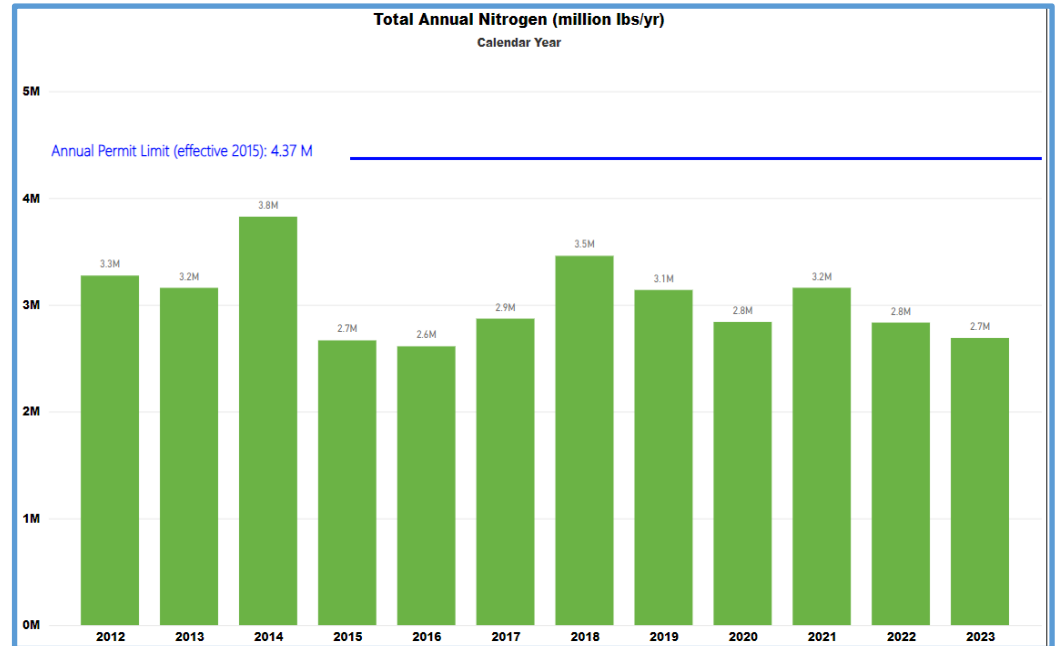
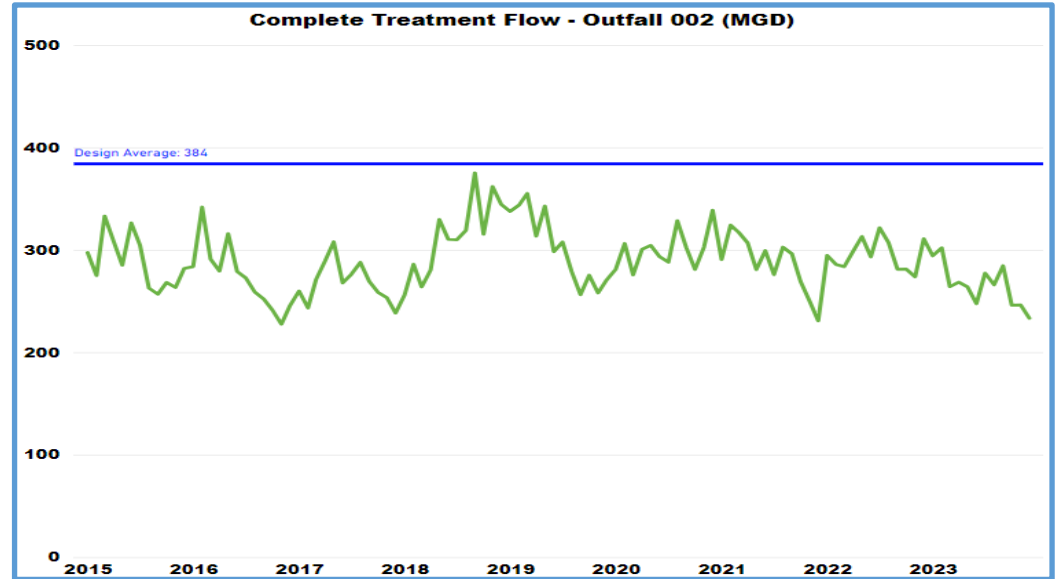
Enhanced Clarification at the Wet Weather Treatment Facility



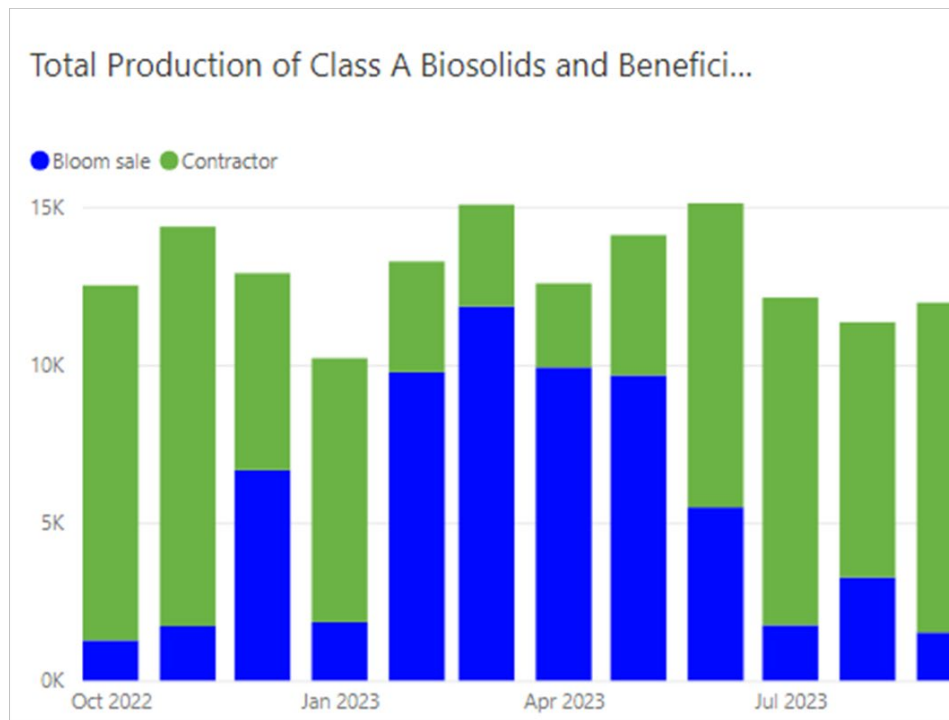
Trash, Debris and Solids Removal from Screening Shaft at Tunnel Dewatering Pumping Station

☐ FY23: Avg. Complete Treatment Flow (Outfall 002) 278 MGD

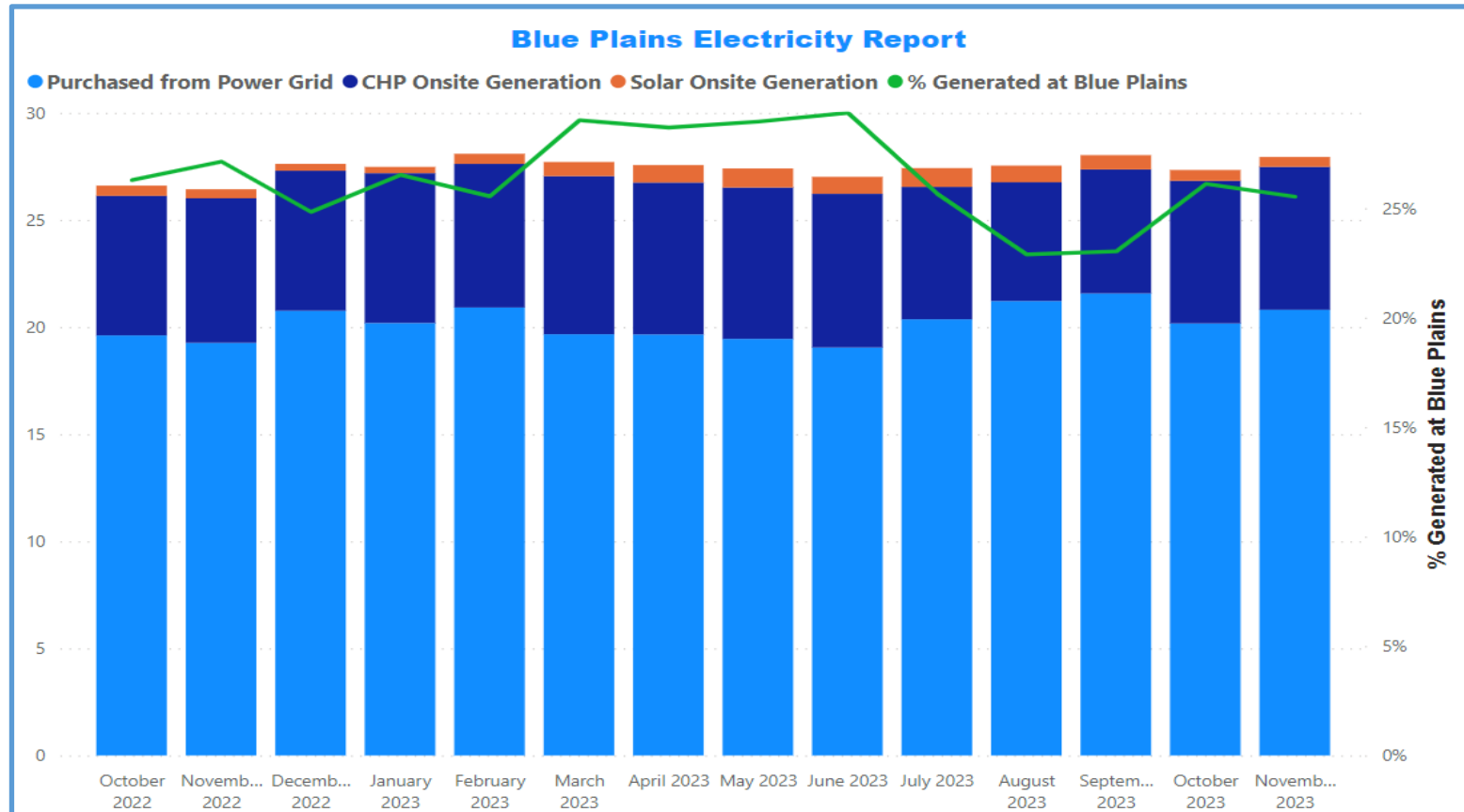
☐ CY23: approx. 2.86 MLbs TN



- ❑ Biosolids produced (Actual for FY23) ~ 427 wet tons/day
- ❑ Met EPA’s Class A Exceptional Quality requirements
- ❑ 64,722 wet tons marketed as BLOOM
- ❑ Estimate used for FY24 & FY25 ~ 450 wet tons/day



- ❑ CHP facility and the Phase I Solar Panels generated an average of 6.6 MW and 0.60 MW of net power respectively or 26.3 % of the total energy consumed at Blue Plains



☐ Asset Management/Reliability

- Continued to build upon the Asset Management Program with focus on Asset Reliability



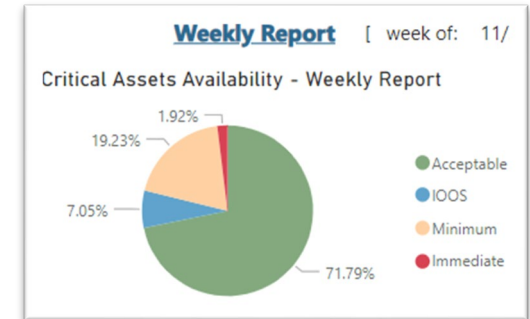
○ Operator Driven Reliability:

- iPads provided to all Operations Staff and Maintenance staff
 - Pads include Mobile Maximo, eLogger, EDS One Drive and other mobile apps.
 - Process of utilizing and enhancing use of iPads to improve field inspection and reporting, providing for more timely and more accurate WOs.
- O&M staff increasingly used plant asset data analytics to understand plant process systems and equipment performance and drive decisions

☐ Maintenance Objectives & Strategies

○ Ensuring Plant Capacity

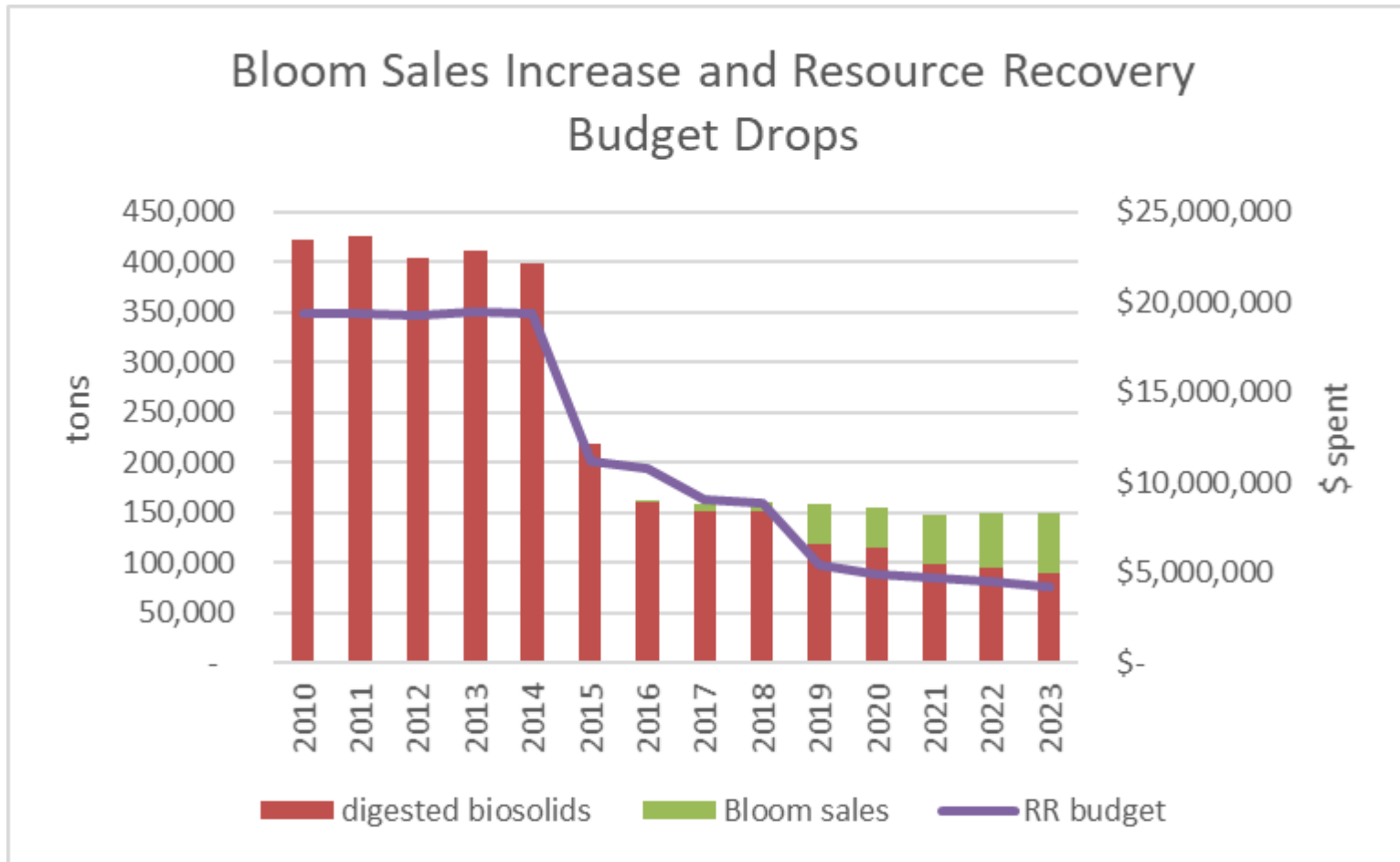
- Critical equipment availability: Target >95% and was met every month during FY 2023
Annual monthly average was at 97%



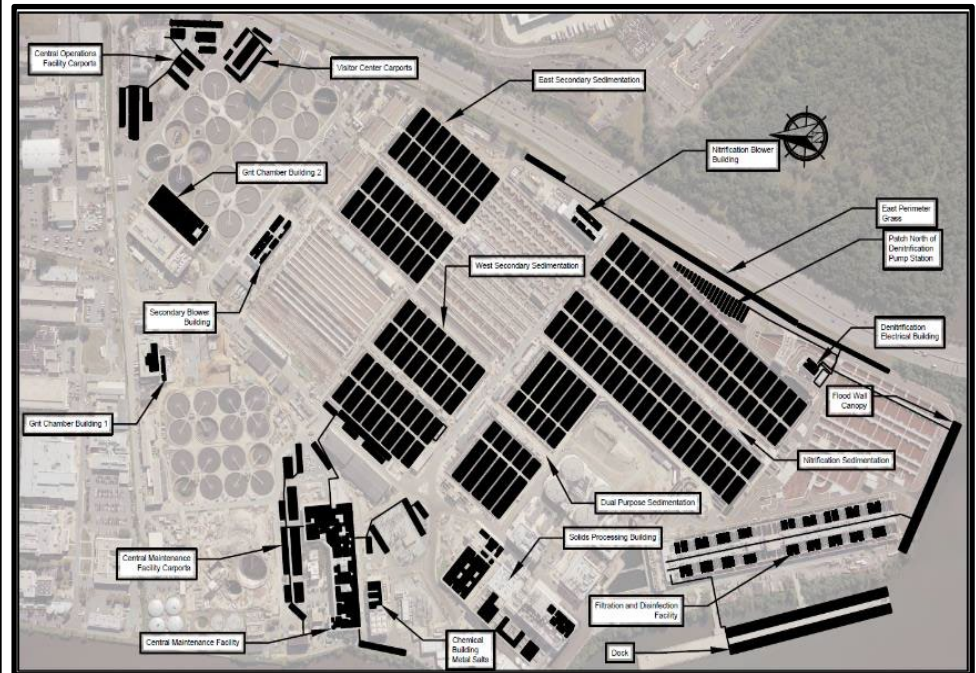
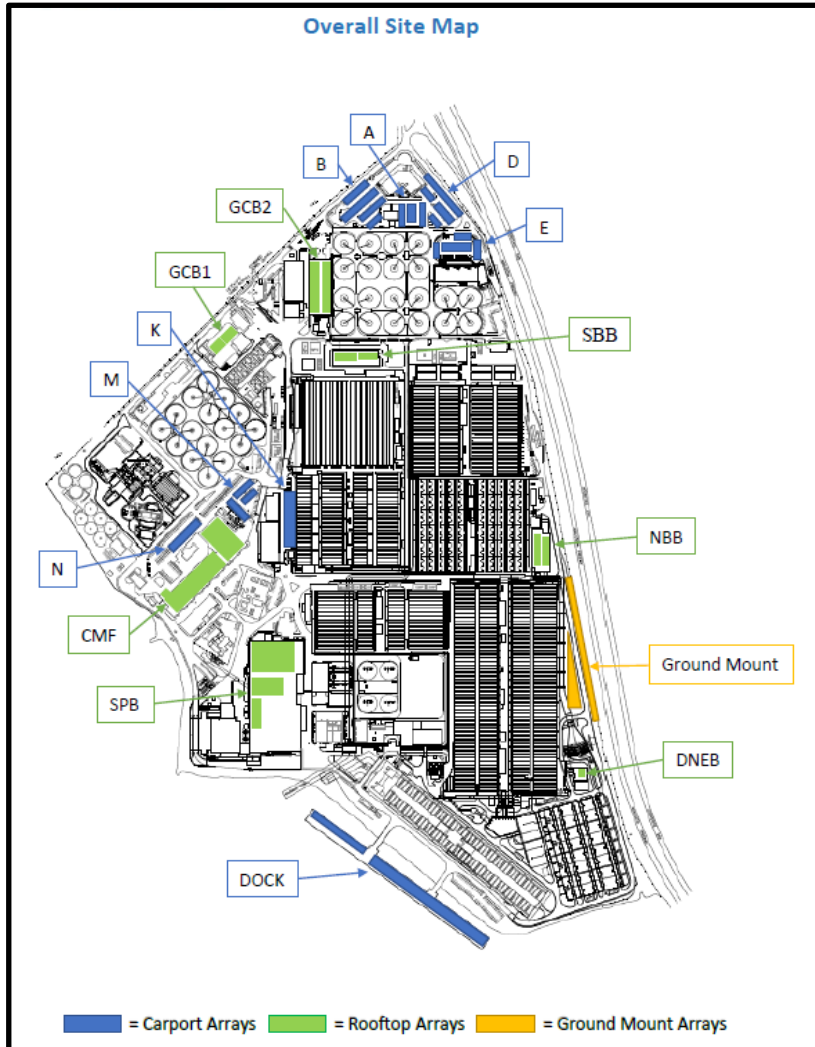
○ Sustaining and Improving Asset Reliability – The PDCA cycle of continuous Improvement.

- Continue initiatives and programs aimed at improving the effectiveness and efficiency of our activities.
- Continue providing training to develop and sustain skills that support the best maintenance practices.









- ☐ Phase I Solar (3.5 MW) fully operational
 - ☞ ~\$500K/yr savings in power costs
 - ☞ Reduction of carbon footprint

- ☐ Phase II option under consideration
 - ☞ Additional 12 MW potential
 - ☞ Potential for an additional \$1.2M/yr in power savings
 - ☞ Additional carbon footprint reduction

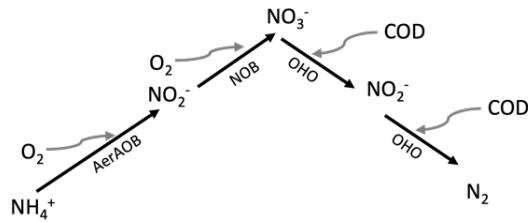
- ☐ This project and others planned to further increase Blue Plains on-site energy generation

Research journey

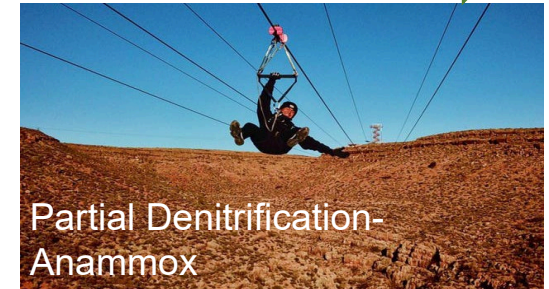
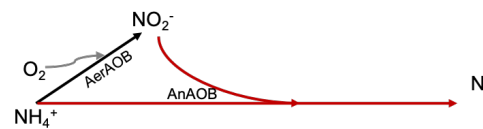


Conventional Nitrification-Denitrification

Resource intensive N removal (Current)

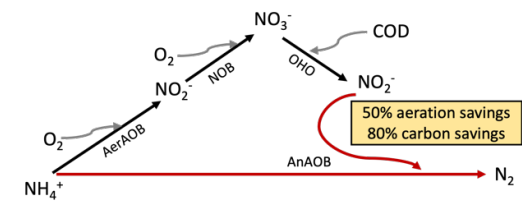


Partial Nitrification-Anammox



Partial Denitrification-Anammox

Resource efficient N removal via PdNA



- Robust and reliable
- Well understood process
- Safety factors built into infrastructure (volume)

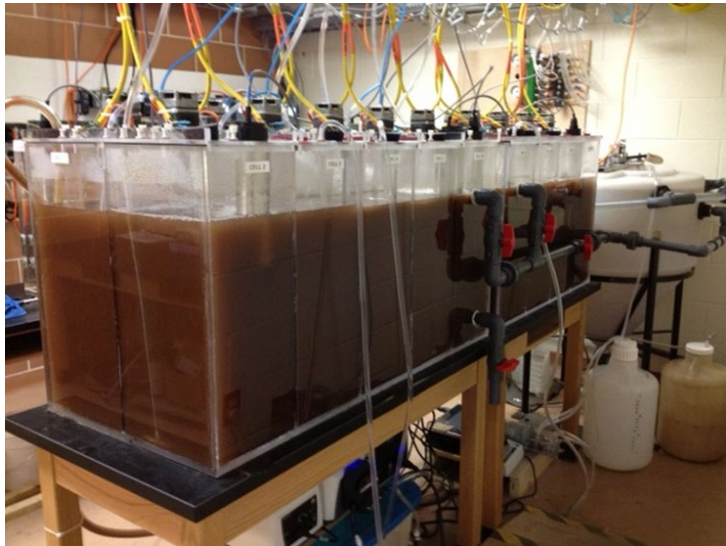
- Similar to DEMON
- Complex recipe
- Does not work in sub-optimal conditions

- Simple recipe
- Stepwise implementation
- Synergy with future goals

Research journey



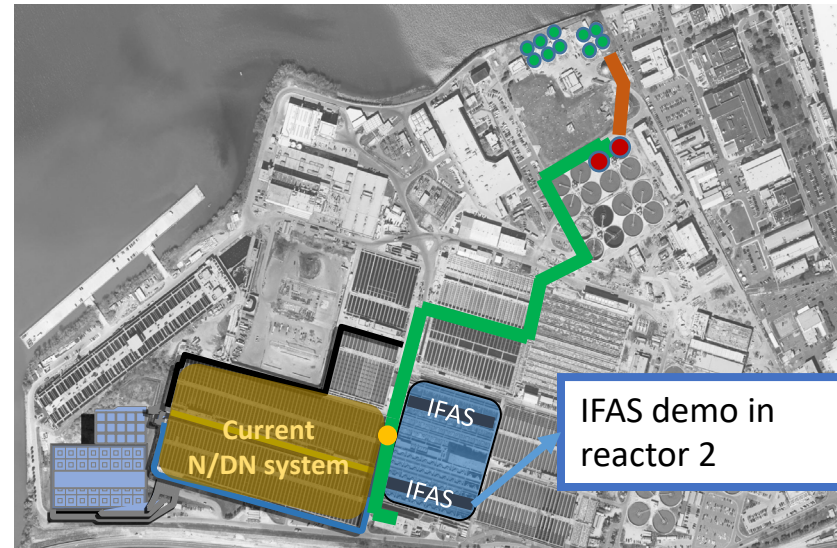
PdNA: Proof of principle pilot (2012-2024)



- PdNA kinetic understanding
- PdNA control development
- Carbon source testing
- Initial business case
- Startup strategy

1. Capacity enhancement of current infrastructure
2. MeOH saving (30-40% estimated based on pilot)
3. Carbon footprint reduction

PdNA: Pilot demonstration scale (2024-...)



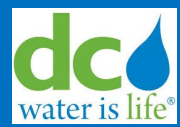
- IFAS design optimization
- Aeration and carbon dosing control testing
- Finalization of business case

10 Minutes Break

Capital Projects

Paul Guttridge

Director, CIP Infrastructure Management

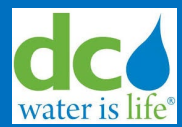


The Capital Improvement Program

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

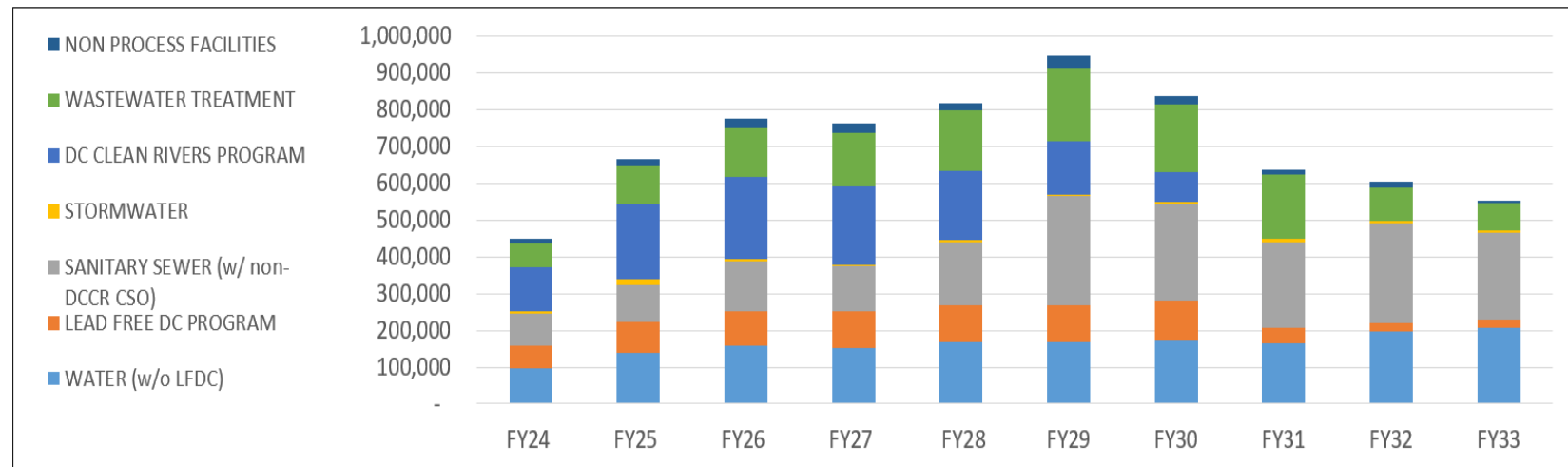
Cash Disbursements (\$ in thousands)

	FY 2024 - FY 2033 Disbursement Plan											Lifetime
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	10-yr Total	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	\$ 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	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	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	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	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	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	\$ 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
WASHINGTON AQUEDUCT	35,546	35,770	35,770	35,770	35,770	35,770	35,770	35,770	35,770	35,770	357,472	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	\$ 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	\$ 16,082,284



Proposed 10-year CIP for Capital Projects

	FY 2024 -2033 (\$1,000s)										
(Cash Disbursements \$ in thousands)	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	10-yr Total
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
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
DC CLEAN RIVERS PROGRAM	118,913	204,033	220,390	212,583	189,057	147,147	77,719	-	-	-	1,169,843
STORMWATER	7,293	13,565	7,958	3,804	4,532	3,268	6,697	9,432	6,772	5,231	68,551
SANITARY SEWER (w/ non-DCCR CSO)	85,479	101,610	134,787	122,671	173,731	295,469	264,115	231,811	269,312	236,846	1,915,829
LEAD FREE DC PROGRAM	62,339	83,333	93,925	98,921	99,443	101,674	104,867	42,753	22,166	22,166	731,587
WATER (w/o LFDC)	96,398	139,161	158,469	151,357	166,813	166,917	174,317	164,482	197,714	205,813	1,621,441
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



Potomac Interceptor & Other Very Large Sewer Projects

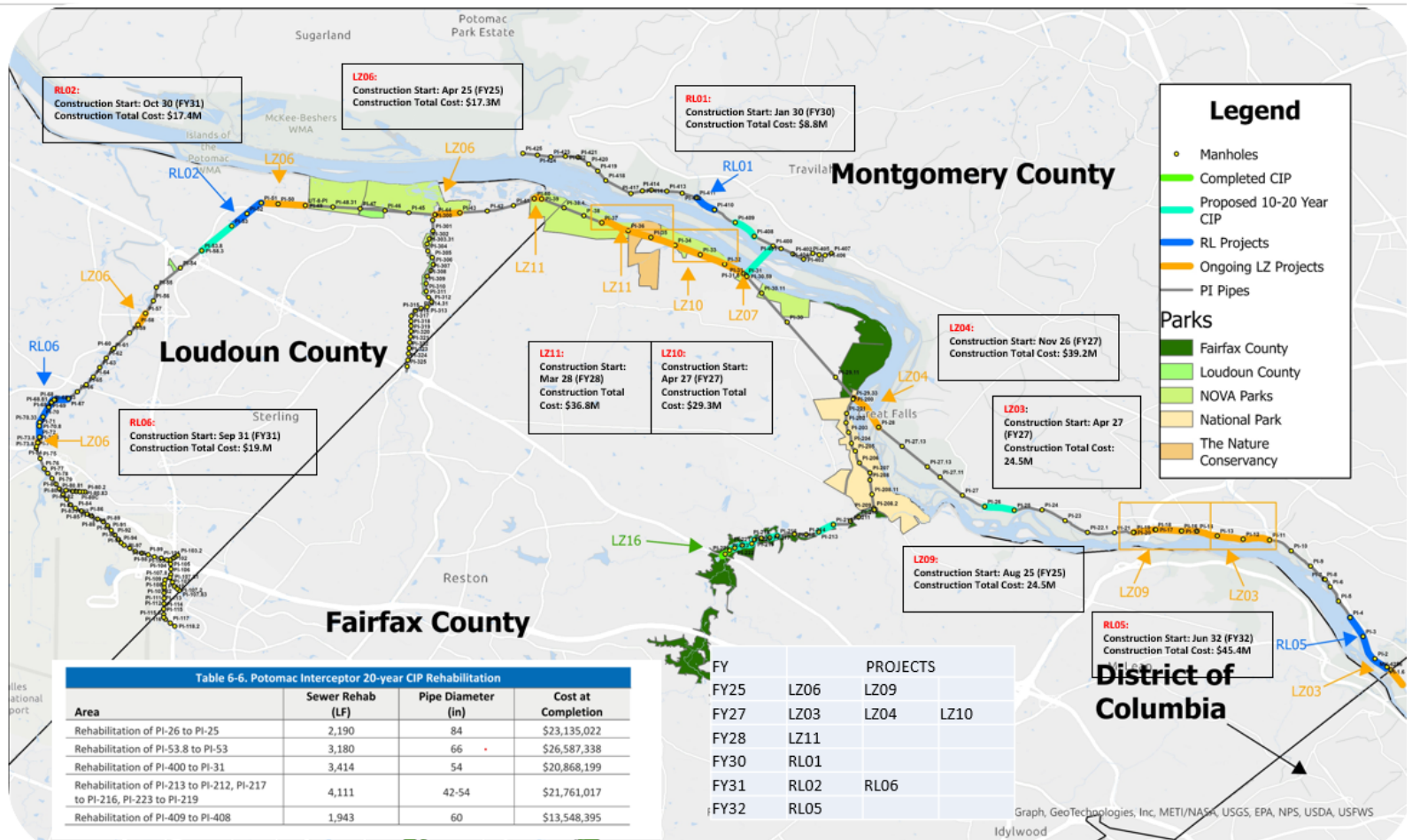
Getachew Melsew
Senior Manager, Planning

💧 For the FY 2024 – FY 2026 period, the estimated wholesale user share* of the capital disbursement plan of \$1.89B is \$271.3M, which is broken down by service area as follows:

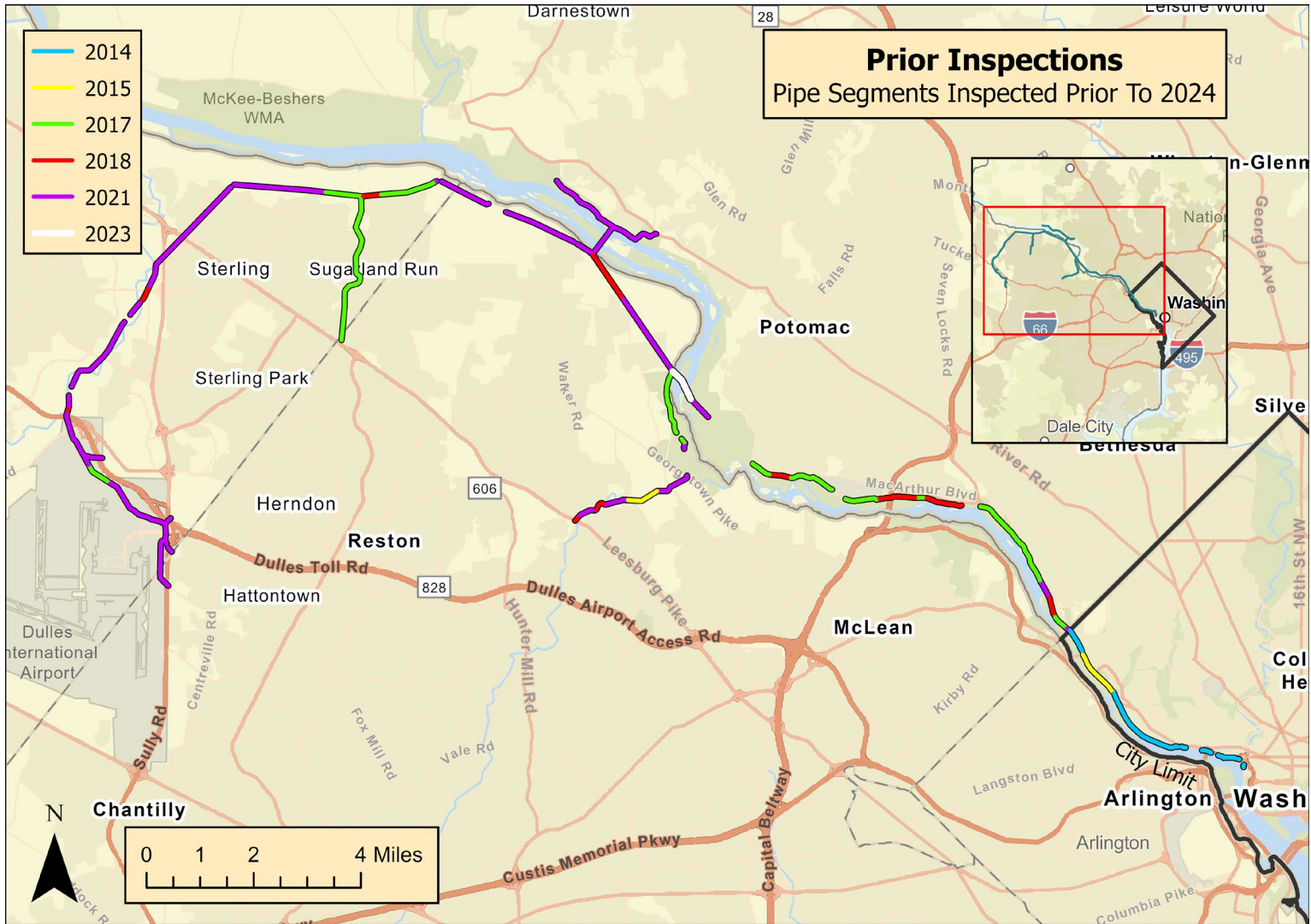
Area	Total FY24-26	FY24-26 IMA Share	IMA Percentage
Blue Plains Projects	\$301.9M	\$174.3M	57.7%
DCCR/CSO	\$568.5M	\$31.5M	5.5%
Non-Process (Fleet, COF, Main PS)	\$58.2M	\$2.3M	4.1%
Sewer Projects	\$296.7M	\$63.0M	20.6%
Water/Storm	\$633.6M	\$0M	0%
TOTAL	\$2.202M	\$331.5M	

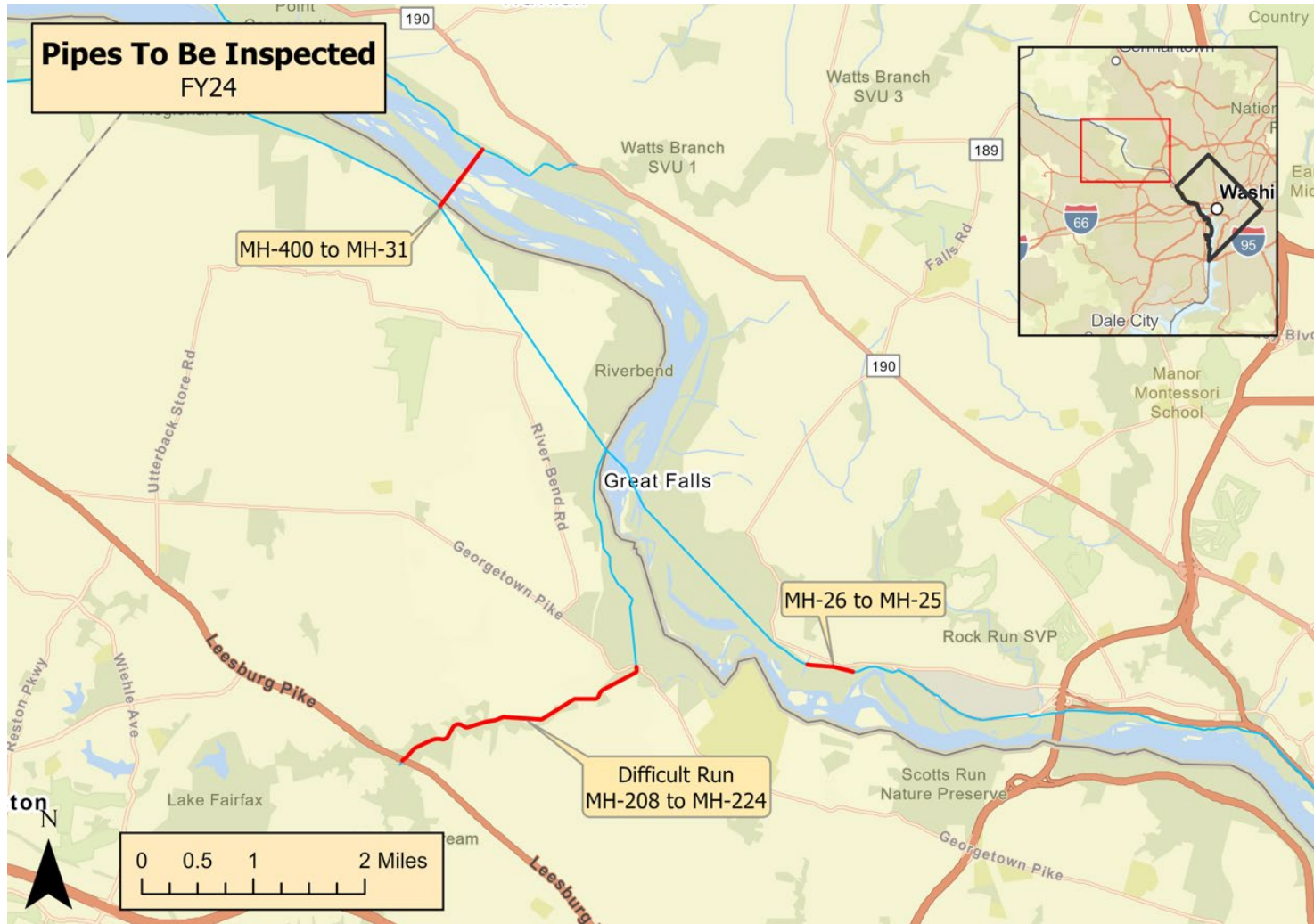
* Represents WSSC, Fairfax, Loudoun & PI Users. Capital construction costs only.

Potomac Interceptor Projects - Overview



Graph, GeoTechnologies, Inc, METI/NASS, USGS, EPA, NPS, USDA, USFWS
Idlywood





RA01 – Upper Potomac Interceptor Relief Sewer Condition Assessment

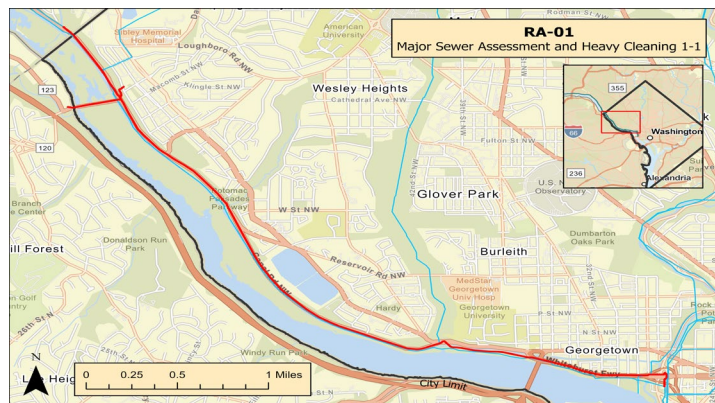
- Inspection of 34 manholes and access structures and approximately 28,000 LF of reinforced concrete and brick gravity sewers and tunnels
- UPIRS Inspection FY22 & FY23 (one segment to be inspected in FY24 after UPI diversion in Jul 2023)
- FY 2024 – FY 2026 Planned Disbursements - \$0.04M
- Total Estimated Project Cost - \$0.625M

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
6.47%	40.86%	39.39%	10.84%	2.44%

Project Status: Inspection

	Start	Finish
UPIRS Inspection	Apr. 2022	Mar. 2024



LZ02 – Rehab of PI Access Rd Phase 2

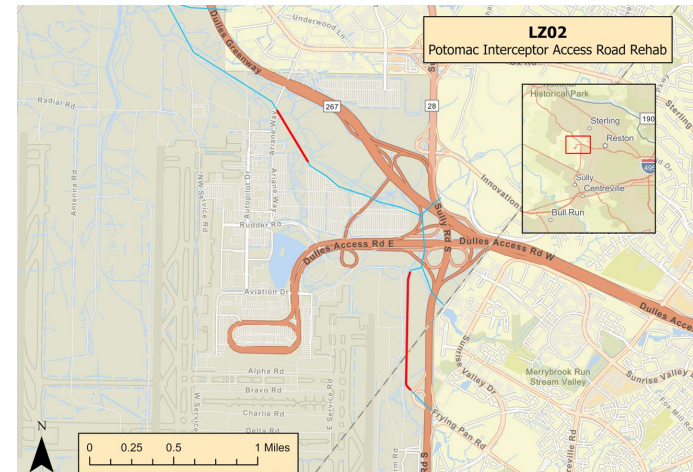
- Construction of Access of Roads to access manholes along the PI
- FY 2024 – FY 2026 Planned Disbursements - \$0.4M
- Total Estimated Project Cost - \$3.4M**
- Construction Physical Completion - 0%
- Total Wholesale Customer Share* - 99.64%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
0%	0%	100%	0%	0%

Program – Potomac Interceptor

	Start	Finish
Design	Dec. 2024	Dec. 2026
Construction	Apr. 2027	Apr. 2029



* This is planning level cost (Class 4) estimate.

LZ03 – PI Phase 1 Pipe Rehab at Clara Barton Pkwy

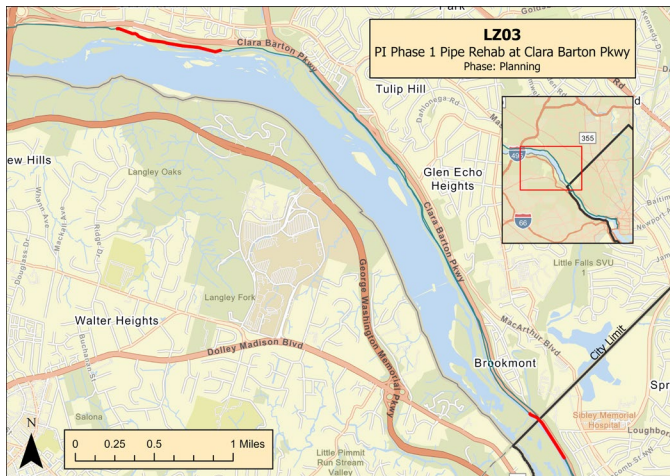
- Rehabilitation of 7,630 LF of sewer lines in National Park Property
- FY 2024 – FY 2026 Planned Disbursements - \$1.3M
- Total Estimated Project Cost - \$32M*
- Construction Physical Completion - 0%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
0.36%	34.80%	42.34%	18.37%	4.13%

Project Status: Design Phase

	Start	Finish
Design	Feb. 2018	Mar. 2026
Construction	Apr. 2027	Mar. 2029



LZ04 – PI Phase 2 Pipe Rehab at Potomac Crossing

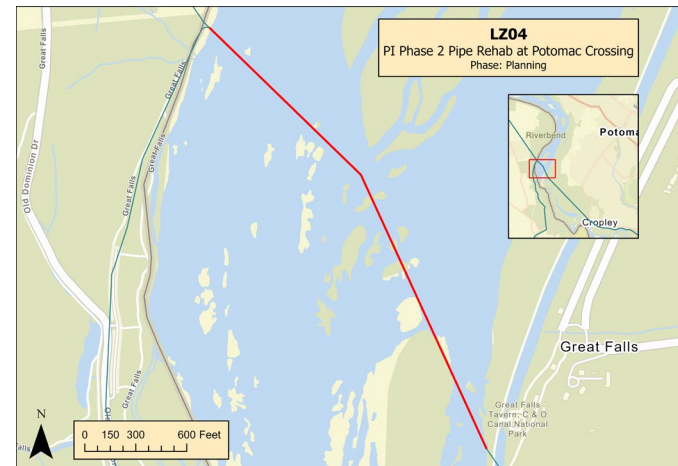
- Rehabilitation of the 78-inch sewer line crossing the Potomac river
- FY 2024 – FY 2026 Planned Disbursements - \$2.4M
- Total Estimated Project Cost - \$46M*
- Construction Physical Completion - 0%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
0%	30.45%	43.1%	21.69%	4.76%

Program – Potomac Interceptor

	Start	Finish
Design	Mar. 2020	May. 2026
Construction	Nov. 2026	May. 2031



* More accurate cost will be provided once the design is finalized

LZ06 – PI Phase 4 Pipe Rehab at Fairfax & Loudoun Co.

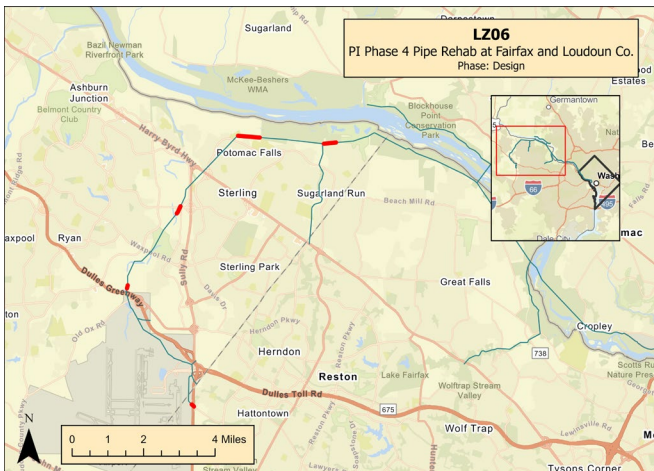
- Rehabilitation of 7,138 LF of sewer lines
- FY 2024 – FY 2026 Planned Disbursements - \$2.4M
- Total Estimated Project Cost - \$20.6M*
- Construction Physical Completion - 0%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
0%	0%	52.51%	40.08%	7.41%

Project Status: Design Phase

	Start	Finish
Design	Jan. 2020	Oct. 2024
Construction	April 2025	April 2027



LZ07 – PI Phase 5 Pipe Rehab between MH31 and MH30

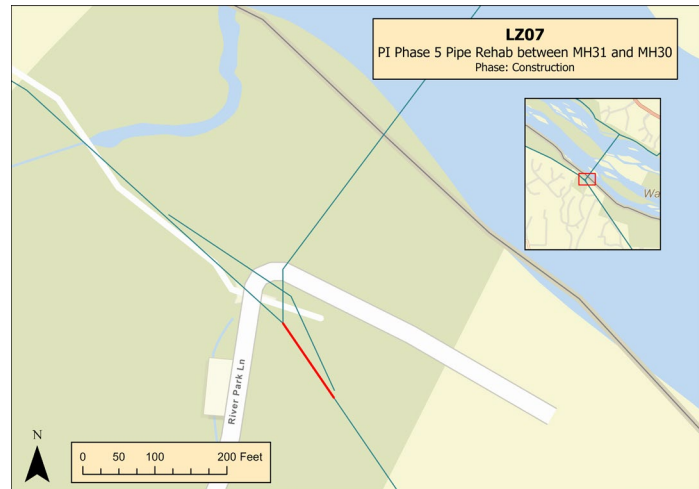
- Three new structures including new MH31 and energy dissipator
- FY 2024 – FY 2026 Planned Disbursements - \$10.6M
- Total Estimated Project Cost - \$42.2M
- Construction Physical Completion - 70%

Cost Split (Varies with project phase and components)

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
0%	###%	###%	###%	###%

Project Status: Construction Phase

	Start	Finish
Design	May 2020	Design-Build
Construction	Design-Build	Dec. 2024



* More accurate cost will be provided once the design is finalized

LZ09 – PI Phase 6 Pipe Rehab at Clara Barton Pkwy and I495

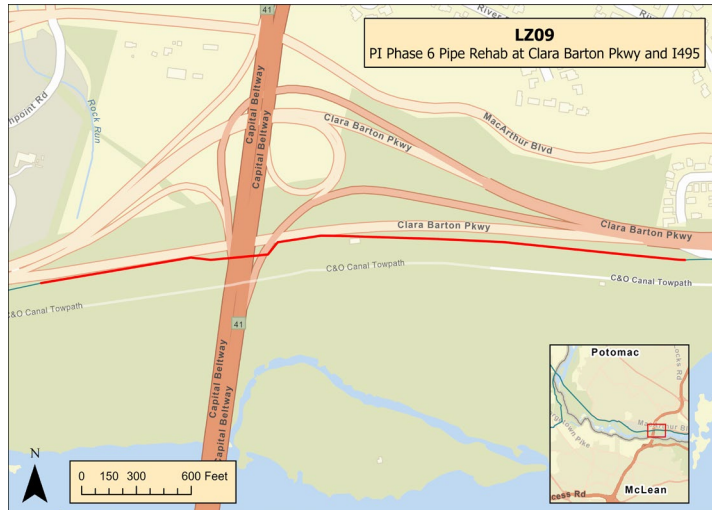
- Rehabilitation of 3,541 LF of sewer lines in National Park Property
- FY 2024– FY 2026 Planned Disbursements - \$9.8M
- Total Estimated Project Cost - \$33.2M*
- Construction Physical Completion - 0%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
0%	30.90%	45.10%	19.60%	4.40%

Project Status: Design Phase

	Start	Finish
Design	Aug. 2020	Jun. 2025
Construction	Aug. 2025	July 2027



LZ10 – Rehabilitation of PI between MH31.5 – MH34

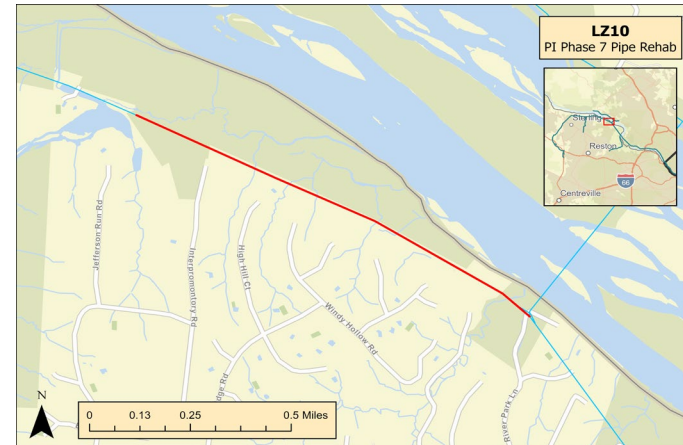
- Rehabilitation of 5,900 LF of sewer lines
- FY 2024 – FY 2026 Planned Disbursements - \$2.2M
- Total Estimated Project Cost – \$38.6M**
- Construction Physical Completion - 0%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
0%	0%	48.60%	46.40%	5.00%

Project Status: Planning Phase

	Start	Finish
Design	Dec. 2024	Dec. 2026
Construction	Apr. 2027	Oct. 2028



* More accurate cost will be provided once the design is finalized

LZ11 – Rehabilitation of PI between MH34 - MH40

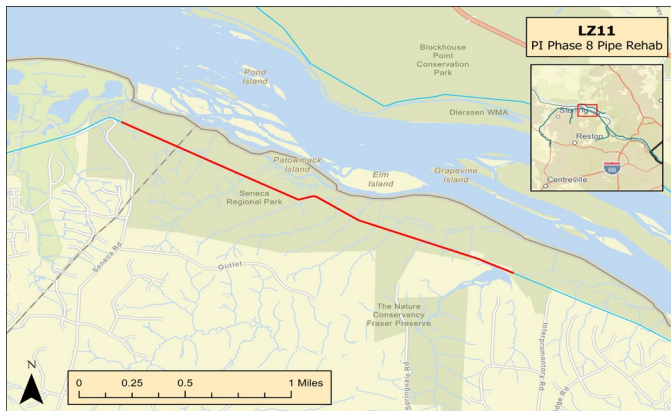
- Rehabilitation of 6,400 LF of sewer lines
- FY 2024 – FY 2026 Planned Disbursements - \$1.04M
- Total Estimated Project Cost – \$47.1M* budgeted
- Construction Physical Completion - 0%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
0%	0%	48.60%	46.4%	5.0%

Project Status: Planning Phase

	Start	Finish
Design	Nov. 2025	Nov. 2027
Construction	Mar. 2028	Sep. 2029



LZ13 – PI Manhole Rehabilitation

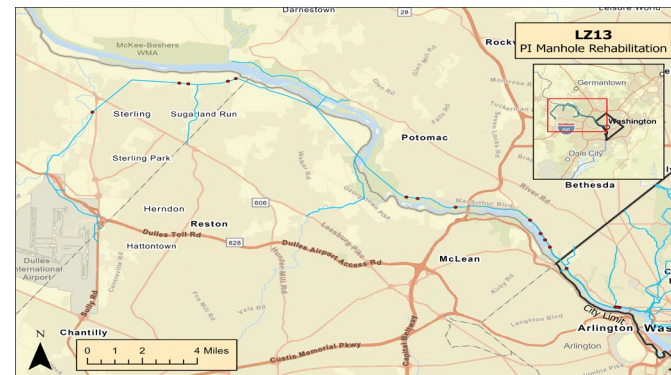
- Rehabilitation of 16 top priority manholes in the PI and UPIRS
- FY 2024 – FY 2026 Planned Disbursements - \$0.2M
- Total Estimated Project Cost - \$0.45M
- Construction Physical Completion - 0%
- Total Wholesale Customer Share - 100%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
1.94%	26.3%	42.14%	25.1%	4.52%

Project Status: Design Phase

	Start	Finish
Design	Mar. 2021	Sep. 2023
Construction	Sep. 2023	Sep. 2024



* This is planning level cost (Class 4) estimate

LZ14 – PI Cabin John Culvert Headwall & Embankment Repair

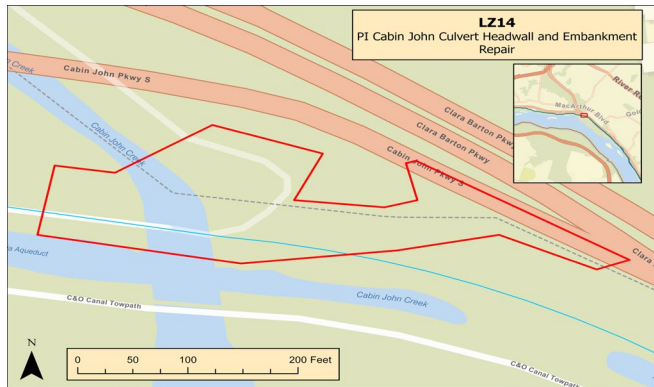
- Repair Cabin John culvert headwall & embankment
- FY 2024 – FY 2026 Planned Disbursements - \$0.3M
- Total Estimated Project Cost - \$2.6M
- Construction Physical Completion - 0%
- Total Wholesale Customer Share* - 100%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
0%	30.90%	45.10%	19.60%	4.40%

Project Status: Design Phase

	Start	Finish
Design	Mar. 2021	Dec. 2026
Construction	Dec. 2026	Jun. 2028



RL01 – Rehabilitation of PI between MH410 – MH411

- Rehabilitation of 1,750 LF of sewer lines
- FY 2024 – FY 2026 Planned Disbursements - \$0M
- Total Estimated Project Cost - \$11.2M*
- Construction Physical Completion - 0%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
0%	100.0%	0%	0%	0%

Project Status: Planning Phase

	Start	Finish
Design	Sep. 2027	Sep. 2029
Construction	Jan. 2030	Jan. 2032



* This is planning level cost (Class 4) estimate

RL02 – Rehabilitation of the PI between MH51 – MH53

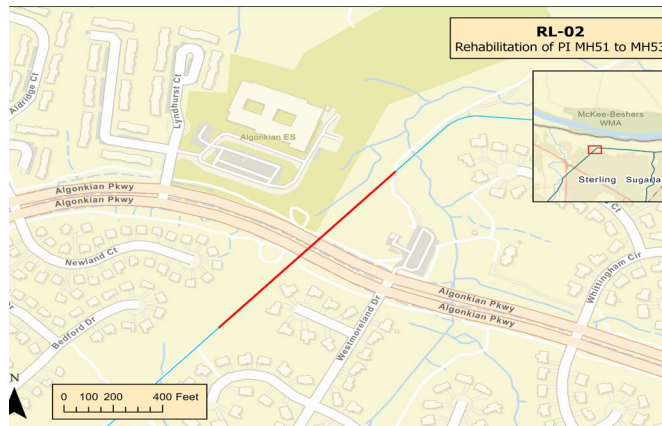
- Rehabilitation of 3,100 LF of sewer lines
- FY 2024 – FY 2026 Planned Disbursements - \$0M
- Total Estimated Project Cost - \$22.2M*
- Construction Physical Completion - 0%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
0%	0%	51.7%	39.1%	9.2%

Project Status: Planning Phase

	Start	Finish
Design	Jun. 2028	Jun. 2030
Construction	Oct. 2030	Oct. 2032



RL04 – PI Erosion Control Phase 2

- Scope to be determined.
- FY 2024 – FY 2026 Planned Disbursements - \$0.1M
- Total Estimated Project Cost - \$3.7M*
- Construction Physical Completion - 0%

Cost Split (to be determined)

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
0%	0%	###%	###%	###%

Project Status: Planning Phase

	Start	Finish
Design	Jul. 2025	Jul. 2027
Construction	Nov. 2027	Nov. 2029



* This is planning level cost (Class 4) estimate.

RL05 – Rehabilitation of PI between MH1.6 – MH4

- Rehabilitation of 5,900 LF of sewer lines
- FY 2024 – FY 2026 Planned Disbursements - \$0.01 M
- Total Estimated Project Cost - \$62.5M*
- Construction Physical Completion - 0%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
0%	100.0%	0%	0%	0%

Project Status: Planning Phase

	Start	Finish
Design	Feb. 2030	Feb. 2032
Construction	Jun. 2032	Jun. 2035

RL06 – Rehabilitation of PI Phase 2-6

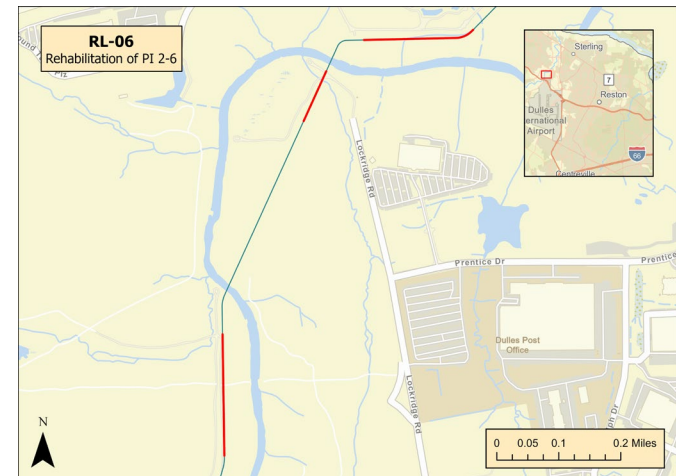
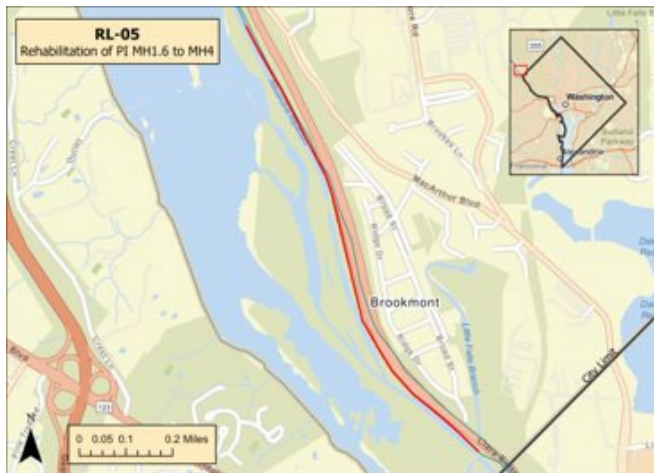
- Rehabilitation of 4,840 LF of sewer lines
- FY 2024 – FY 2026 Planned Disbursements - \$0M
- Total Estimated Project Cost - \$25.2M*
- Construction Physical Completion - 0%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
0%	0%	51.7%	39.1%	9.2%

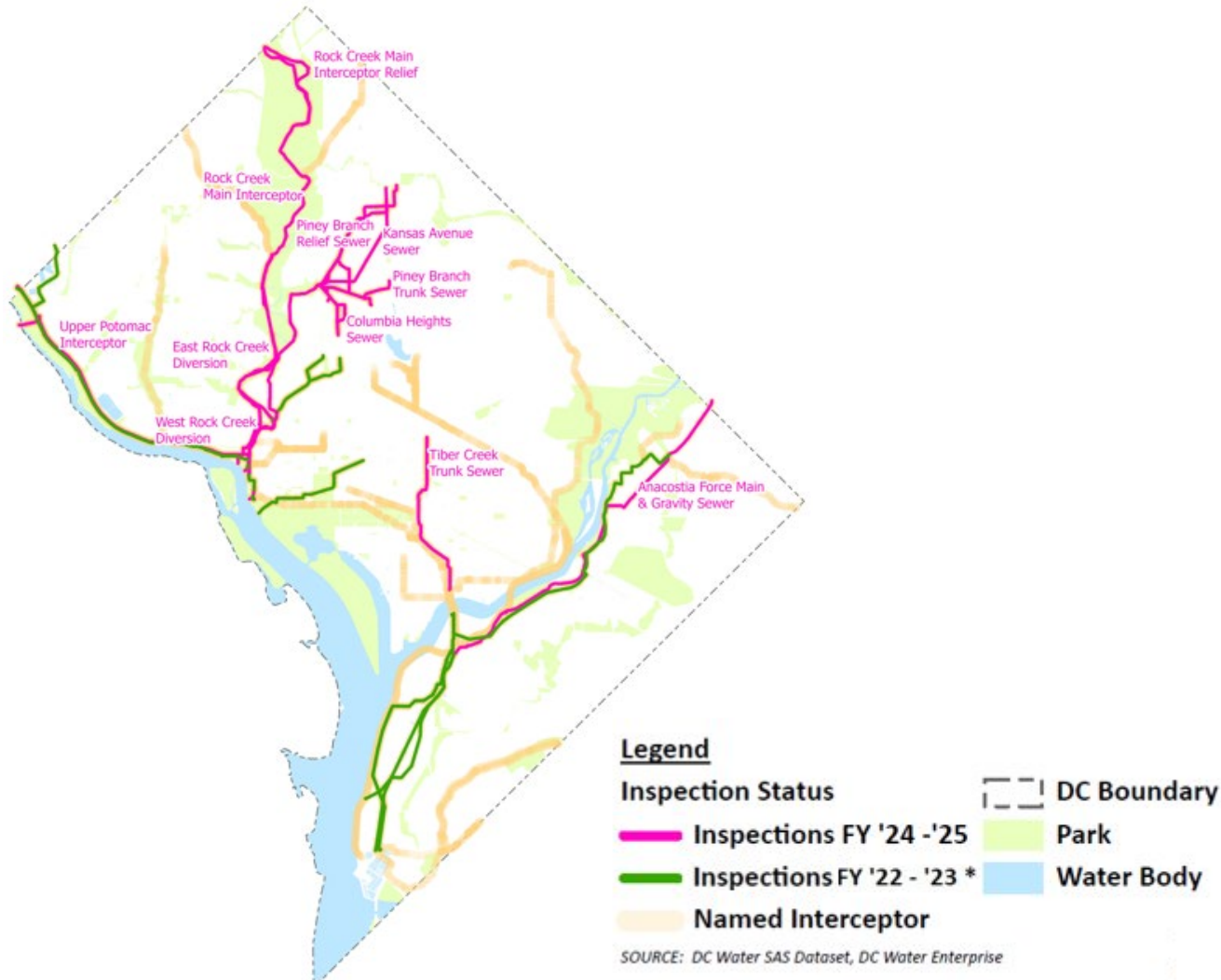
Project Status: Planning Phase

	Start	Finish
Design	May. 2029	May. 2031
Construction	Sep. 2031	Sep. 2033



* This is planning level cost (Class 4) estimate.

Very Large Sewers Condition Assessment



HS03 – Rehab of East and West Outfall Sewers

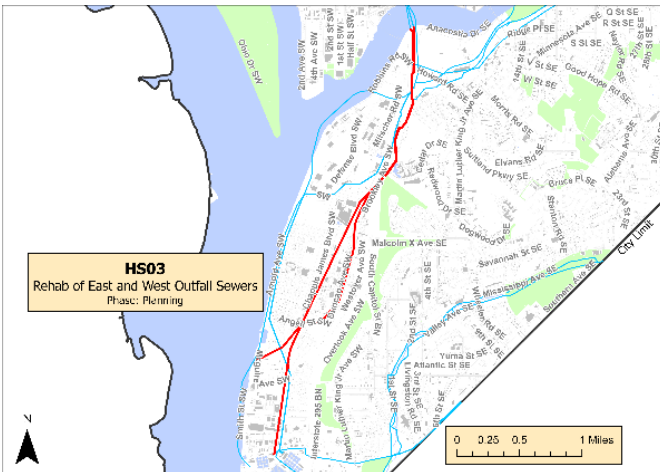
- Rehabilitation of 12,126 LF of sewer pipes
- FY 2024 – FY 2026 Planned Disbursements - \$0
- Total Estimated Project Cost - \$42.1M
- Construction Physical Completion - 0%

Cost Split *Averaged Values

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
91.2%*	8.8%*	0%	0%	0%

Project Status: Planning Phase

	Start	Finish
Design	Jun. 2028	Jun. 2030
Construction	Oct. 2030	Sep. 2034



HT01– Anacostia Force Main Rehab Phase I

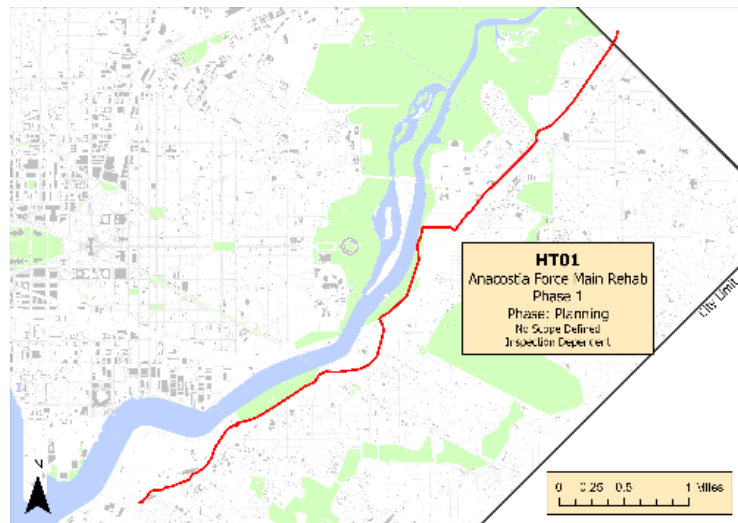
- Rehabilitation of sewer pipes and replacement of all ARVs. Total length to be determined based on future condition assessment.
- FY 2024 – FY 2026 Planned Disbursements - \$0.15
- Total Estimated Project Cost - \$116.1M
- Construction Physical Completion - 0%

Cost Split *Averaged Values

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
15.6%*	84.4%*	0%	0%	0%

Project Status: Planning Phase

	Start	Finish
Design	Feb. 2028	Feb. 2030
Construction	Jun. 2030	Jun. 2032



* More accurate cost will be provided once the design is finalized

RC01 – Rehab of RCMI and Beach Drive Sewers

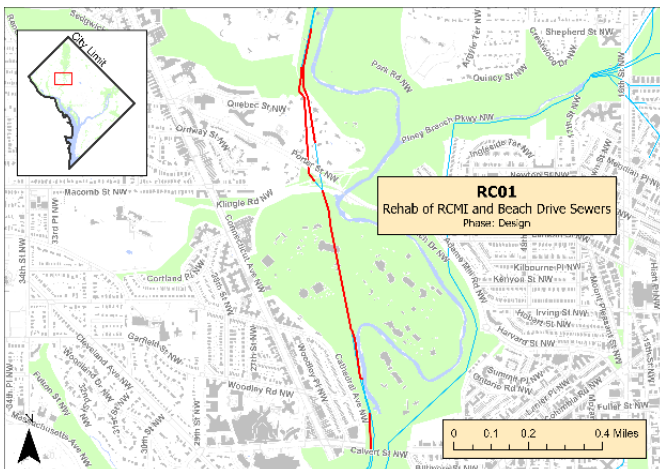
- Rehabilitation of 6,550 LF of sewer pipes
- FY 2024 – FY 2026 Planned Disbursements - \$1.5M
- Total Estimated Project Cost - \$36.6M
- Construction Physical Completion - 0%

Cost Split *Averaged Values

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
41.1%*	58.9%*	0%	0%	0%

Project Status: Planning Phase

	Start	Finish
Design	Feb. 2023	Oct. 2027
Construction	Oct. 2027	Mar. 2029



RD01 – Rehab of Rock Creek Main Interceptor

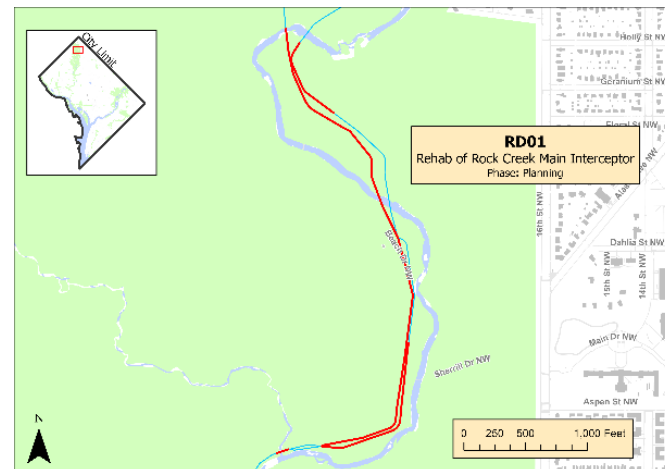
- Rehabilitation of 6,344 LF of sewer pipes
- FY 2024 – FY 2026 Planned Disbursements - \$0.6M
- Total Estimated Project Cost - \$20M
- Construction Physical Completion - 0%

Cost Split *Averaged Values

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
12.7%*	87.3%*	0%	0%	0%

Project Status: Planning Phase

	Start	Finish
Design	Aug. 2025	Aug. 2029
Construction	Dec. 2029	Dec. 2032



* More accurate cost will be provided once the design is finalized

RD03 – Oxon Run Sewer Rehab

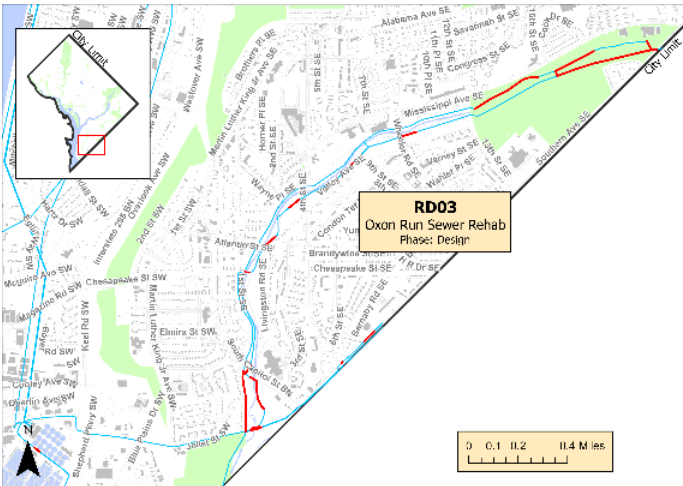
- Abandonment of 2,320 LF and rehabilitation or protection of 7,250 LF of sewer pipes
- FY 2024 – FY 2026 Planned Disbursements - \$1.8M
- Total Estimated Project Cost - \$30.9M
- Construction Physical Completion - 0%

Cost Split *Averaged Values

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
24.9%*	75.1%*	0%	0%	0%

Project Status: Design Phase

	Start	Finish
Design	Jul. 2020	Apr. 2027
Construction	Apr. 2027	Oct. 2028



RD04 – NIBS/SIBS Rehab

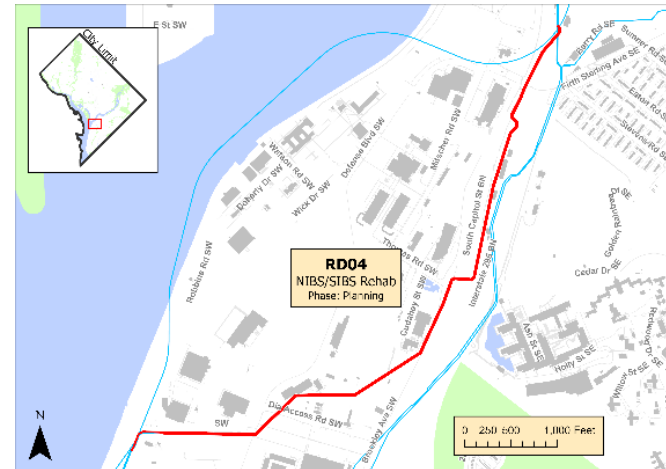
- Rehabilitation of 14,830 LF of sewer pipes
- FY 2024 – FY 2026 Planned Disbursements - \$1.9M
- Total Estimated Project Cost - \$36.5M
- Construction Physical Completion - 0%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
24.2%	75.8%	0%	0%	0%

Project Status: Planning Phase

	Start	Finish
Design	Jan. 2026	Jan. 2028
Construction	May 2028	May 2031



* More accurate cost will be provided once the design is finalized

RE01 – East and West Outfall Relief Sewer Phase I

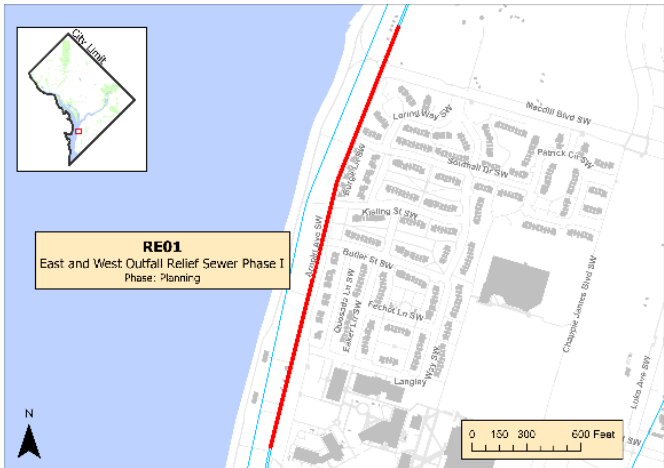
- Rehabilitation of 4,872 LF of sewer pipes
- FY 2024 – FY 2026 Planned Disbursements - \$10.7M
- Total Estimated Project Cost - \$57.8M*
- Construction Physical Completion - 0%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
39.4%	44.8%	12.0%	3.2%	0.7%

Project Status: Planning Phase

	Start	Finish
Design	Dec. 2024	Dec. 2026
Construction	Apr. 2027	Apr. 2030



RE05 – East and West Outfall Relief Sewer Emergency Rehab

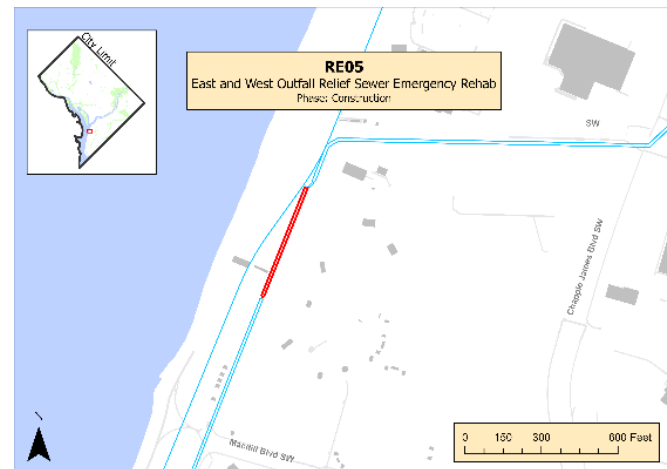
- Emergency rehab of 500 LF of sewer pipes
- FY 2024 – FY 2026 Planned Disbursements - \$23.7M*
- Total Estimated Project Cost - \$26.3M
- Construction Physical Completion - 30%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
39.4%	44.8%	12.0%	3.2%	0.7%

Project Status: Planning Phase

	Start	Finish
Design	Oct. 2023	Jan. 2025
Construction	Jul. 2023	Jan. 2025



* More accurate cost will be provided once the design is finalized

W102 – East and West Outfall Relief Sewer Phase II

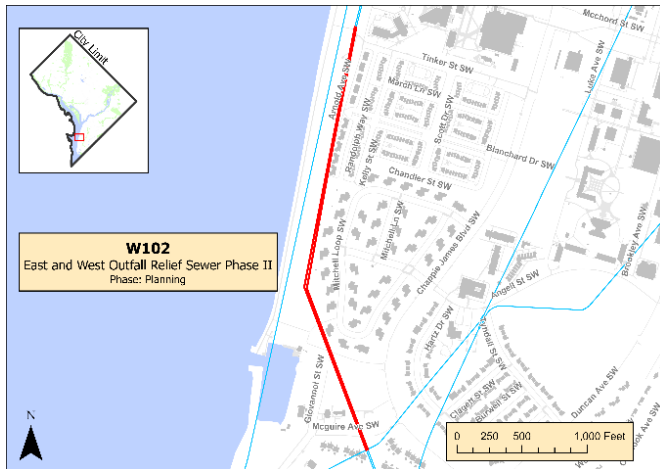
- Rehabilitation of 6,725 LF of sewer pipes
- FY 2024 – FY 2026 Planned Disbursements - \$0M
- Total Estimated Project Cost - \$103.8M*
- Construction Physical Completion - 0%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
39.4%	44.8%	12.0%	3.2%	0.7%

Project Status: Planning Phase

	Start	Finish
Project	Oct. 2030	Sep. 2037



X201 – Rehab of Little Falls Trunk Sewer, AMI, and EWORS Phase III

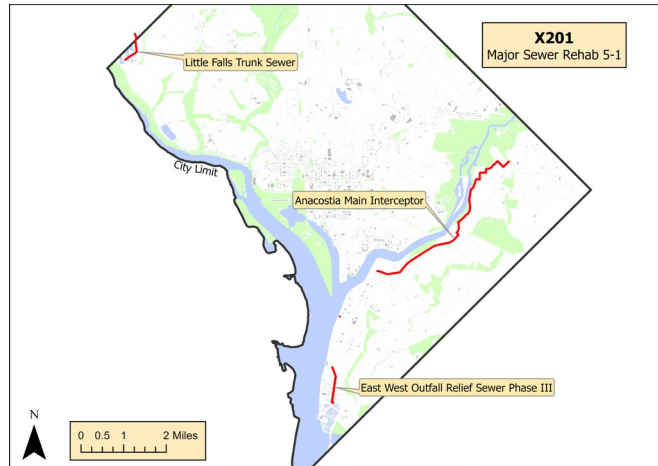
- Rehabilitation of 4,000 LF of sewer pipes
- FY 2024 – FY 2026 Planned Disbursements - \$0M
- Total Estimated Project Cost - \$10M*
- Construction Physical Completion - 0%

Cost Split

DC %	WSSC %	Fairfax %	Loudoun %	Other PI Users %
76.4%	22.9%	0.6%	0.15%	0.03%

Project Status: Planning Phase

	Start	Finish
Project	Oct. 2028	Oct. 2037



* More accurate cost will be provided once the design is finalized

Blue Plains Projects

Ryu Suzuki

Director, Wastewater Engineering

IZ02 – East & West Influent Screens

- FY 2024 – FY 2026 Planned Disbursements - \$1.2M
- Total Estimated Project Cost - \$15.5M
- Construction Physical Completion 100%
- Total Wholesale Customer Share^{1*} - 58.8%

Program – Liquid Processing

	Start	Finish
Design	Jun. 2018	Jan. 2019
Construction	Oct. 2019	Mar. 2023

BX – Gravity Thickener Upgrades Phase II

- FY 2024 – FY 2026 Planned Disbursements - \$2.3M
- Total Estimated Project Cost - \$79M
- Construction Physical Completion - 99%
- Total Wholesale Customer Share* - 58.8%

Program – Solids Processing

	Start	Finish
Design	Feb. 2011	Nov. 2018
Construction	Sep. 2019	Apr. 2025



* Represents WSSC, Fairfax, Loudoun & PI

IY03– High and Low Pressure Reclaimed Final Effluent Pumping System Upgrade

- FY 2024 – FY 2026 Planned Disbursements - \$7.9M
- Total Estimated Project Cost - \$23M
- Construction Physical Completion - 63%
- Total Wholesale Customer Share* - 58.8%

Program – Liquid Processing

	Start	Finish
Design	Jan 2018	Nov 2020
Construction	Jun 2021	May 2025



UC06 - Filter Influent Pumps 1-10

- FY 2024 – FY 2026 Planned Disbursements - \$0.9M
- Total Estimated Project Cost - \$29M
- Construction Physical Completion - 98%
- Total Wholesale Customer Share* - 58.8%

Program – Liquid Processing

	Start	Finish
Design	Oct. 2013	Feb. 2019
Construction	Oct. 2019	Jan 2024



* Represents WSSC, Fairfax, Loudoun & PI

BC01 – Headworks Influent Structures

- FY 2024 – FY 2026 Planned Disbursements - \$13.2M
- Total Estimated Project Cost - \$23.6M
- Construction Physical Completion - 0%
- Total Wholesale Customer Share* - 58.8%

Program – Liquid Processing

	Start	Finish
Design	July 2019	Sept 2023
Construction	Jul. 2024	Jul. 2027

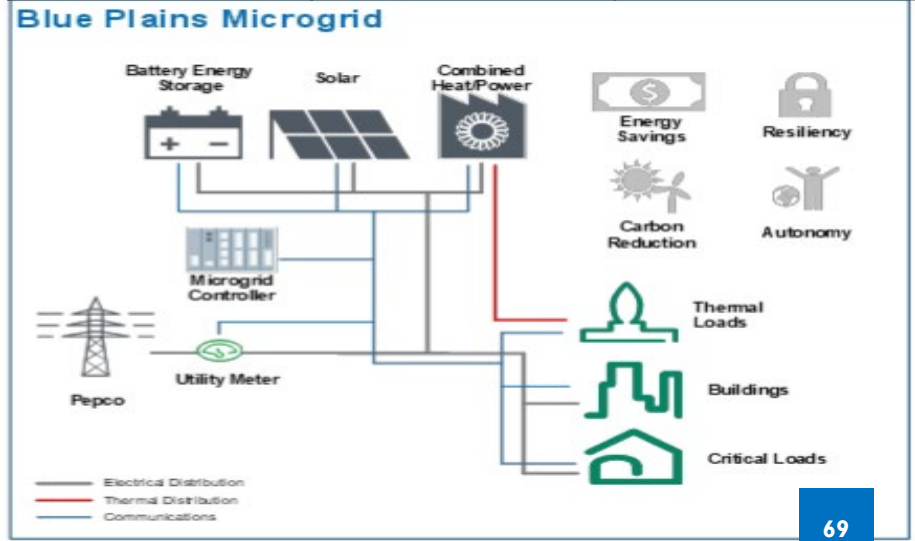


IC01 – Electrical Improvements and Microgrid Implementation

- FY 2024 – FY 2026 Planned Disbursements - \$3.1M
- Total Estimated Project Cost - \$24M
- Construction Physical Completion - 0%
- Total Wholesale Customer Share* - 58.8%

Program – Liquid Processing

	Start	Finish
Concept Design	Jan 2023	Aug. 2025
Construction	May 2026	May 2028



* Represents WSSC, Fairfax, Loudoun & PI

BQ02 – Headworks Electrical Upgrades

- FY 2024 – FY 2026 Planned Disbursements - \$11.9M
- Total Estimated Project Cost - \$69.8M
- Construction Physical Completion - 0%
- Total Wholesale Customer Share* - 58.8%

Program – Liquid Processing

	Start	Finish
Design	Jun. 2020	Oct. 2024
Construction	Jul. 2025	Jul. 2029



TZ06 – COF/IT Electrical System Upgrades

- FY 2024 – FY 2026 Planned Disbursements - \$11.1M
- Total Estimated Project Cost - \$16.2M
- Construction Physical Completion - 0%
- Total Wholesale Customer Share* - 35%

Program – Plantwide Projects

	Start	Finish
Design	Sep. 2018	Oct. 2023
Construction	Oct. 2024	Apr. 2027



* Represents WSSC, Fairfax, Loudoun & PI

VI01 – Rehabilitation and Emergency Response (MFU8)

- FY 2024 – FY 2026 Planned Disbursements - \$7.7M
- Total Estimated Project Cost - \$10.3M
- Construction Physical Completion - 0%
- Total Wholesale Customer Share* - 58.8%

Program – Liquid Processing

	Start	Finish
Design	Oct. 2023	Nov. 2027
Construction	Oct. 2023	Nov. 2027



J205 – PSW/PSL/PSC Piping Replacements

- FY 2024 – FY 2026 Planned Disbursements - \$12.0M
- Total Estimated Project Cost - \$19.0M
- Construction Physical Completion – 12.5%
- Total Wholesale Customer Share* - 58.8%

Program – Plantwide Projects

	Start	Finish
Design	May 2021	Aug. 2028
Construction	Mar. 2022	Aug. 2028



* Represents WSSC, Fairfax, Loudoun & PI

IY10 Filter Underdrain and Backwash System Upgrades (FUBS)

- FY 2024 – FY 2026 Planned Disbursements - \$21.9M
- Total Estimated Project Cost - \$121.5M
- Construction Physical Completion - 0%
- Total Wholesale Customer Share* - 58.8%

Program – Plantwide Projects

	Start	Finish
Design	Mar. 2022	Jul. 2024
Construction	May 2025	Dec. 2029

LD01 Pre-Dewatering Additional Centrifuges

- FY 2024 – FY 2026 Planned Disbursements - \$6.2M
- Total Estimated Project Cost - \$9.2M
- Construction Physical Completion - 0%
- Total Wholesale Customer Share* - 58.8%

Program – Plantwide Projects

	Start	Finish
Design	Mar. 2021	Feb. 2024
Construction	Aug. 2024	Feb. 2027



* Represents WSSC, Fairfax, Loudoun & PI

JF01 Construction of Flood Seawall Segments A, B & D

- FY 2024 – FY 2026 Planned Disbursements - \$20.2M
- Total Estimated Project Cost - \$32.4M
- Construction Physical Completion - 0%
- Total Wholesale Customer Share* - 58.8%
- Potential FEMA grant - 75% of \$20M

Program – Plantwide Projects

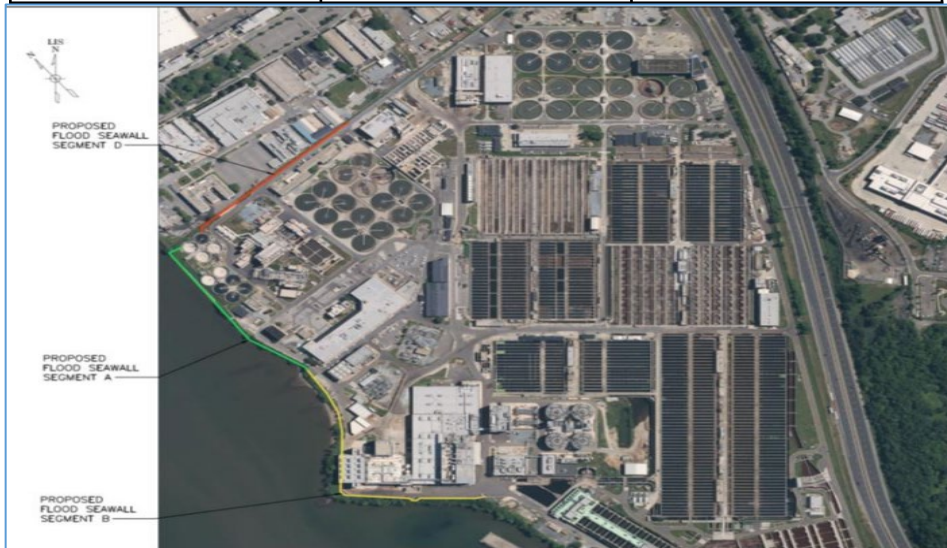
	Start	Finish
Design-Build	Dec. 2024	Oct. 2027

I302 Biosolids Curing Pad and Solar PV

- FY 2024 – FY 2026 Planned Disbursements - \$9.1M
- Total Estimated Project Cost - \$11.8M
- Construction Physical Completion - 0%
- Total Wholesale Customer Share* - 58.8%

Program – Plantwide Projects

	Start	Finish
Design	Mar. 2022	Nov. 2023
Construction (MFU 8)	Jun. 2024	Jun. 2026



* Represents WSSC, Fairfax, Loudoun & PI

Joint Use Pump Stations

**Ryu Suzuki, Director Wastewater
Engineering**

**Duncan Mukira Supervisor, Wastewater
Engineering**

FQ, EK, RS, SD, & RU – Main Pump Station		
<ul style="list-style-type: none"> • FY 2023 – FY 2025 Planned Disbursements - \$12.7M • Total Estimated Project Cost - \$148M • Construction Physical Completion – 28% • Total Wholesale Customer Share* - 10.3% 		
	Start	Finish
Construction	Jul. 2009	Apr. 2029

EJ02, EQ, RH01& RH02 – Potomac Pump Station		
<ul style="list-style-type: none"> • FY 2023 – FY 2025 Planned Disbursements - \$4.8M • Total Estimated Project Cost - \$11.5M • Construction Physical Completion – 28% • Total Wholesale Customer Share* - 50.2% 		
	Start	Finish
Construction	Oct. 2010	Sep. 2027



* Represents WSSC

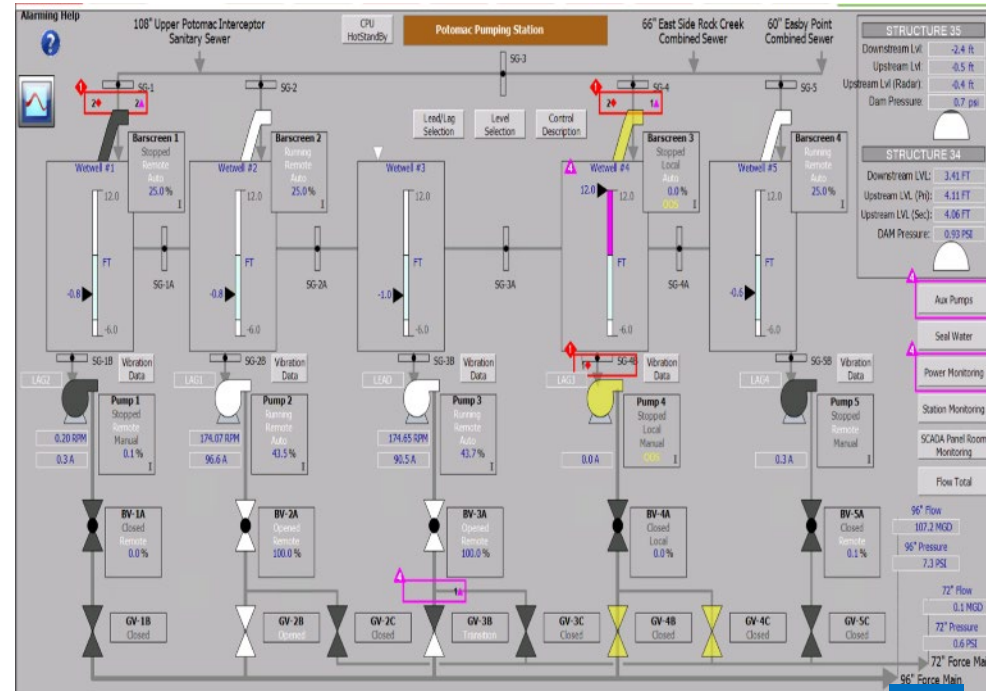


* Represents WSSC, Fairfax, Loudoun

MC – SCADA System Upgrades

- FY 2023 – FY 2025 Planned Disbursements - \$1.5M
- Total Estimated Project Cost - \$8.1M
- Construction Physical Completion – 40%
- Total Wholesale Customer Share* - 6%

	Start	Finish
Design/ Construction	Jun. 2017	Mar. 2027



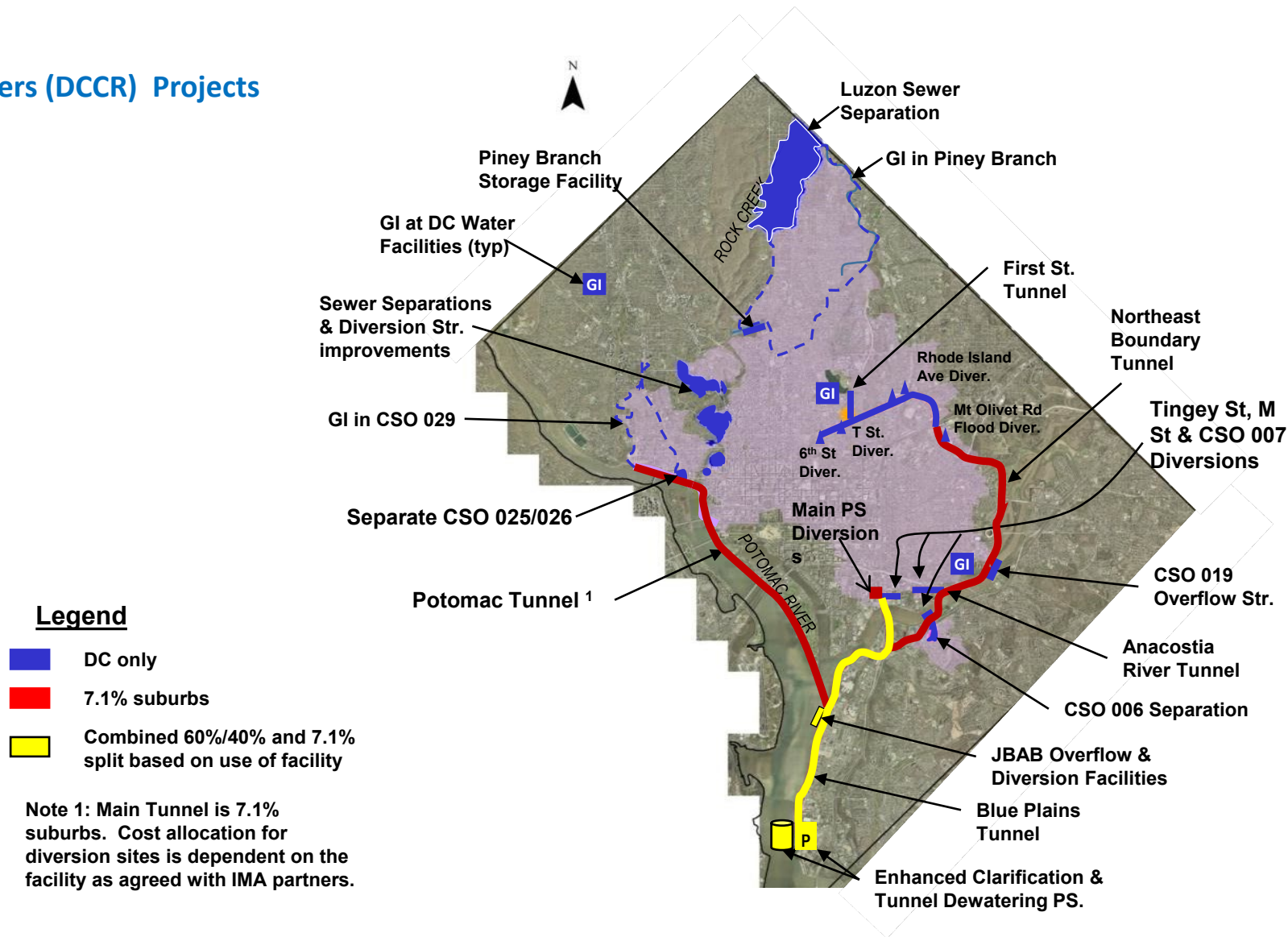
* Represents WSSC, Fairfax, Loudoun & PI

DCCR/CSO Projects

Moussa Wone

Vice President, DC Clean Rivers Project

DC Clean Rivers (DCCR) Projects



💧 Anacostia River Tunnel – commissioned Mar 20, 2018

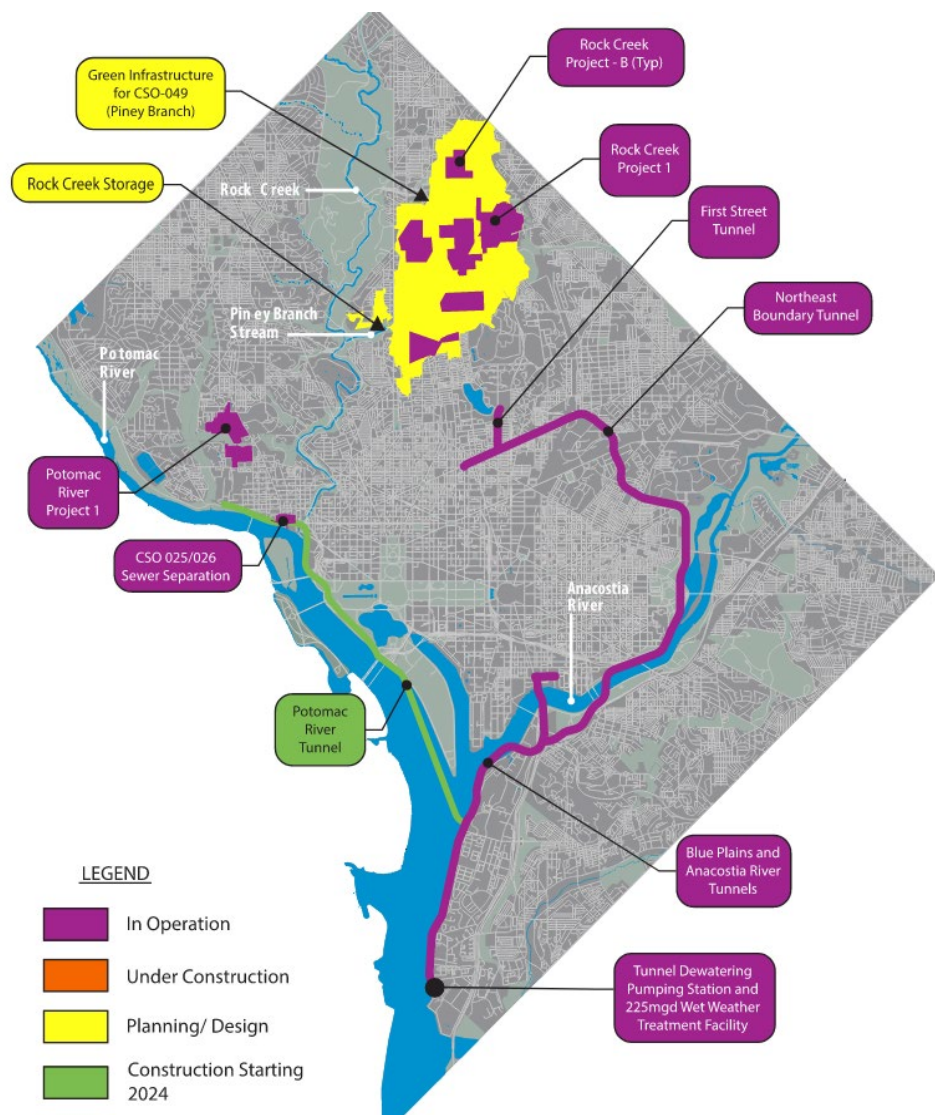
- Controls all CSOs along the Anacostia River
- Over 100 million gallons of storage
- Captured approximately 15.7 billion gallons of CSO and approximately 10,137 tons of trash, debris, and other solids from Mar 2018 to Nov 2023

💧 Northeast Boundary Tunnel - commissioned Sept 15, 2023

- Adds about 90 million gallons of storage
- Commissioned September 15, 2023, ahead of March 23, 2025, Consent Decree deadline.
- Remaining work includes WSVCF & site restoration

💧 Potomac River Tunnel

- Contract A (Utilities) – Substantial Completion attained on May 26, 2023
- Contract B (Tunnel)
 - Notice to Proceed (NTP) issued on November 9, 2023
 - Construction: 2024 – 2030



CZ – Potomac River Tunnel Contract B - Tunnel System Construction

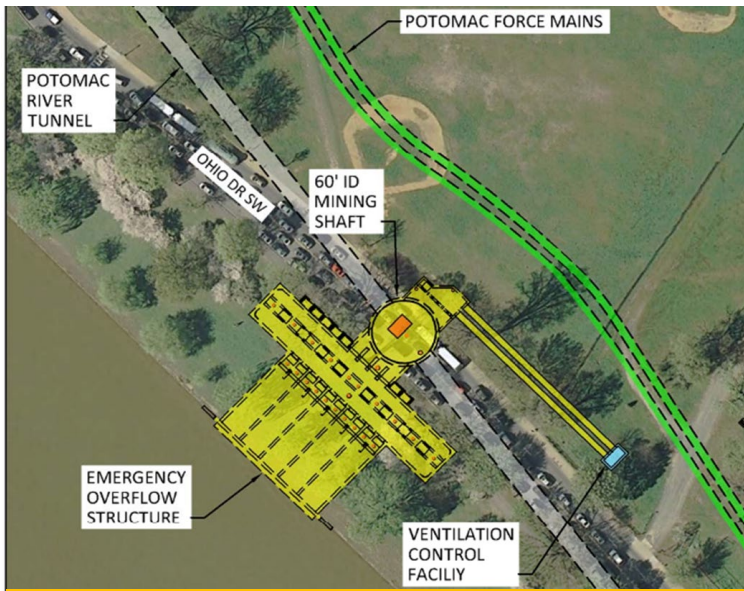
- FY 2024 – FY 2026 Planned Disbursements - \$468.8M
- Total Estimated Project Cost- \$1.1B
- Physically Complete – 0% (NTP was Nov 9, 2023)
- Total Wholesale Customer Share* - 6.1%

Phase	Start	Consent Decree Deadline
Construction	Nov 2023	Feb 2030

CY – Divisions J – Northeast Boundary Tunnel

- FY 2024 – FY 2026 Planned Disbursements - \$31.3M
- Total Estimated Project Cost- \$1.9B
- Physically Complete – 99%
- Total Wholesale Customer Share* - 3.3%

Phase	Start	Consent Decree Deadline
Construction	Sep 2017	Placed in Operation Sep 2023 ahead of Mar 2025 Consent Decree Deadline



Potomac River Tunnel Mining Site (future)



10/9/23 11:46 AM
806 Rhode Island Ave NE, Washington, DC 20018, USA

* Represents WSSC, Fairfax, Loudoun & PI

Appendix

CFO & EVP, Finance Procurement and Compliance	Matthew T. Brown	Matthew.Brown@dcwater.com	202-787-2714
Chief Operating Officer, and EVP	Jeffrey F. Thompson	Jeffrey.Thompson@dcwater.com	202-787-2604
Senior Technical Advisor to the Chief Operating Officer	Salil Kharkar	Salil.Kharkar@dcwater.com	202-787-4146
Vice President, Wastewater Operations	Nicholas Passarelli	Nicholas.Passarelli@dcwater.com	202-787-4140
Vice President, Engineering	David Parker	David.Parker@dcwater.com	202-787-2038
Vice President, Clean Rivers	Moussa Wone	Moussa.Wone@dcwater.com	202-787-4729
Vice President and Controller	Genes Malasy	Genes.Malasy@dcwater.com	202-787-2338
Vice President, Budget	Lola Oyeyemi	Lola.Oyeyemi@dcwater.com	202-787-2152
Director, Engineering & Technical Services	William Elledge	William.Elledge@dcwater.com	202-787-2730
Director, CIP Infrastructure Management	Paul Guttridge	Paul.Guttridge@dcwater.com	202-787-2691
Senior Manager, Planning	Getachew Melsew	Getachew.Melsew@dcwater.com	202-787-2132
Manager, Budget (Operating)	Pade Zuokemefa	Pade.Zuokemefa@dcwater.com	202-787-2288
Acting Manager, Budget (Capital)	Patrice O'Neal	Patrice.O'Neal@dcwater.com	202-787-2163
Manager, Risk	Tanya DeLeon	Tanya.DeLeon@dcwater.com	202-787-2051
Manager, Potomac Interceptor	Eyasu Yilma	Eyasu.Yilma@dcwater.com	202-612-3520
Manager, Grants and Wholesale Billing	Tika Acharya	Tika.Acharya@dcwater.com	202-787-2258
Senior Program Manager, Financial Reporting	Andrew Birbalsingh	Andrew.Birbalsingh@dcwater.com	202-787-2328
Senior Financial Analyst, Grants and Wholesale Billing	Raymond Reyes	Raymond.Reyes@dcwater.com	202-787-2724
Staff Accountant, Grants and Wholesale Billing	Saroj Bhandari	Saroj.Bhandari@dcwater.com	202-787-2041
Finance Liaison, Budget	Rodea Hines	Rodea.Hines@dcwater.com	202-787-2523

Rolling Owner Controlled Insurance Programs

**Tanya DeLeon
Manager, Risk**

An Owner Controlled Insurance Program - OCIP is an alternative insurance program in which a project owner provides and maintains insurance coverages to protect the owner, design builders, prime contractors and subcontractors working on identified projects; OCIP's are typically used on large construction projects involving multiple contractors and subcontractors.

OCIPs provide an opportunity to achieve:

- Strengthened construction risk management, risk reduction, alternative insurance program
- Multiple interest coverage using master insurance policies
 - allows for multiple insureds to be bundled (or wrapped up) into one combined and controlled program
- Mutually identified insurance coverage including higher limits
- Uniform insurance claims handling, loss prevention and safety
- Joint defense, limited cross-liability and coordinated post-loss management

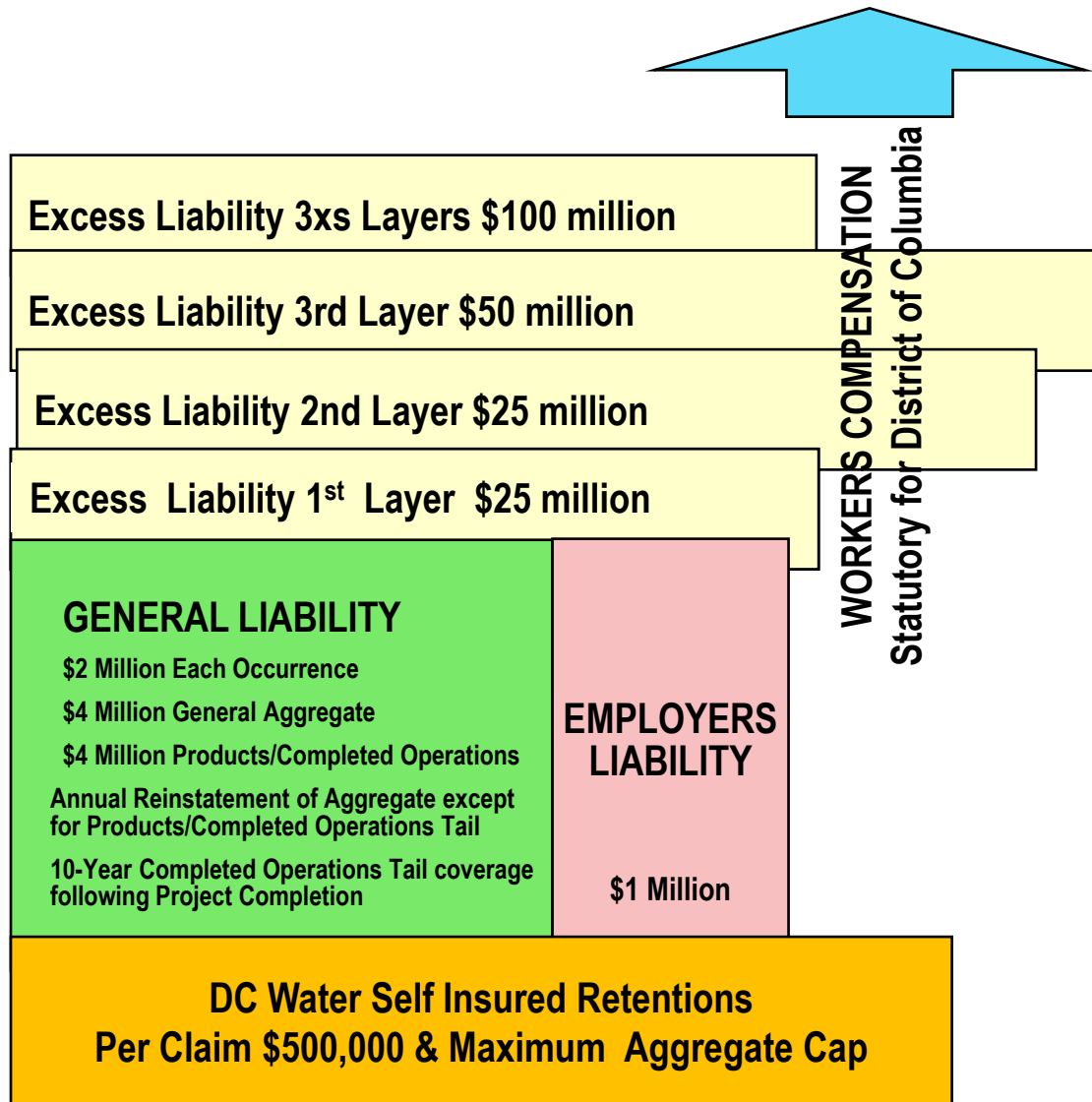
A “Rolling” OCIP (ROCIP) covers a long-term capital improvement program or similar group of separate projects.

- Insurance Plan Components
 - Combined Workers Compensation and General Liability **paid** loss rating plan includes a fixed premium rate based upon Contractor site payroll
 - Deductible \$500,000 per line per loss deductible \$750,000 all lines per loss “clash”
 - Maximum aggregate stop loss rate locked, amount variable based on actual contractor payroll
- General Liability Limits are \$2 million/\$4 million per Occurrence/ Aggregate
 - Extended Term Completed Operations
- Excess General Liability limits are \$200 million – **ROCIP 4 limit increased**
- Excess General Liability limits are \$200 million – **ROCIP 5 limit continued**
- Workers Compensation limits are statutory (DC)
- Employers Liability limits are \$1 million
- Excess General Liability limits are \$200 million – **ROCIP 6 limit continued**
- Workers Compensation limits are statutory (DC)
- Employers Liability limits are \$1 million
- Contractor’s Pollution Liability Limits are \$10 million per occurrence
- Builder’s Risk Liability Limits are \$100 million
- Excess General Liability limits are \$200 million – **PRT OCIP limit continued**
- Workers Compensation limits are statutory (DC)
- Employers Liability limits are \$1 million

- 💧 ROCIP I from FY 2005 to FY 2008
- 💧 ROCIP II from FY 2009 to FY 2011
- 💧 ROCIP III from FY 2012 to FY 2016

- 💧 ROCIP IV from November 15, 2015 to November 15, 2020.
 - (Auto 6 months extension until April 15, 2021)
 - (Additional extension until October 15, 2022 based upon market conditions)
 - (Additional extension until October 15, 2023 based upon market conditions)

- 💧 ROCIP V from November 15, 2020 to November 15, 2023
- 💧 ROCIP VI from November 1, 2023 to November 1, 2028
- 💧 PRT OCIP from November 1, 2023 to November 1, 2030



- Broader Insurance Coverage with Higher Limits
 - All enrolled contractors have dedicated limits and comprehensive coverage
 - \$200 million in excess liability coverage under the ROCIP
 - Completed Operations coverage extended to Statute of Repose (Ten Years)

- Lower Construction Costs with Reduced Avoided Insurance Costs
 - Purchasing insurance for the Contractors on a wholesale basis generates insurance savings for DC Water; on target for significant avoided costs savings as demonstrated by successful avoided contractor costs for ROCIP 1,2,3,4 & 5
 - DC Water has maximized its purchasing power because of the large volume of the Capital Improvement Program

- Enhanced Risk Services for Claims Handling and Loss Prevention
 - Quarterly insurance claim review with Insurers/ Adjusters
 - All enrolled contractors are required to adhere to DC Water safety standards for their safety programs for their work
 - Centralized oversight of all Contractor safety
 - Additional safety staff reflects strong commitment to safety by DC Water

💧 Reduced Litigation

- Single insurance carrier for all enrolled Contractors minimized claim costs
No subrogation suits, Status ~14 Open claims

💧 Insurance requirements are no obstacle for Contractors

- Allows and encourages Design Builders & Prime Contractors to hire sub-contractors that might not be able to work without ROCIP program in place
- Contractors without high limits of insurance can win bids
- Helps local small business build experience to develop their businesses
- Qualified Minority Business Enterprise and Women Business Enterprise participants may evolve and end up bidding as Prime Contractors on future jobs
- DC Water Minority Business Enterprise and Women Business Enterprise participation rate has been above national wrap-up average participation rate

	ROCIP 1 10/15/09 to 10/15/09	ROCIP 2 10/15/09 to 4/15/16	ROCIP 3 10/15/12 to 10/15/15	ROCIP 4 11/15/15 to 10/15/20 NEBT 12/30/22	ROCIP 5 11/15/20 to 11/15/23	ROCIP 1- 5 Total
# of Projects Included	65	47	46	46	55	259
# of Contractors Covered	393	688	688	806	101	2676
Construction Value	\$598 million	\$1.18 billion	\$1.19 billion	\$1.26 billion	\$563 million	\$4.8 billion
Contractor Payroll	\$102 million	\$ 213 million	\$220 million	\$266 million	\$15.1 million	\$773 million
Verified Avoided Insurance Cost	\$5.4 million	\$9.8 million	\$5.1 million	\$5.8 million	\$1.9 million	\$28.0 million

- **Billing Methodology –**
 - Prior- billed after program is closed
 - Current (since 2020):- estimate bill and true up after program closed and audited

- **Past Billing (ROCIP (I, II, III, IV and V)-**
 - We billed \$15.8 million to IMA Partners for ROCIP I, II, and III during FY2020 Q3 Capital Billing (July 2020) out of total costs of \$58.4 million.
 - We billed IMA Partners for estimated \$3 million in ROCIP IV costs during FY2021 Q3 Capital Bill in July 2021.
 - We billed \$157k to IMA Partners in ROCIP I, II, III, IV and V during FY2023 Q4 Capital Billing in October 2023.

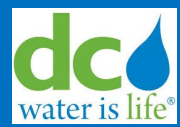
- **FY24 ROCIP Billing (ROCIP V estimate and residual for prior programs)-**
 - Current total FY24 ROCIP disbursements eligible for billing are follows:

ROCIP Program	FY24 Disbursement As of 12/31/23
ROCIP I	\$ -
ROCIP II	\$ -
ROCIP III	\$ 8,528
ROCIP IV	\$ 222,518
ROCIP V	\$ 396,283
ROCIP VI	\$ 17,791,136
Total	\$ 18,418,464

\$ in thousands

FY 2024 PROJECTED IMA-ELIGIBLE OPERATING COSTS					
DEPARTMENT	Proposed				Total
	Budget	WSSC	Fairfax	Loudoun	
Wastewater Treatment - Operations	96,277	40,340	9,243	4,535	54,117
Wastewater Treatment - Process Engineering	8,065	3,379	774	380	4,533
Maintenance Services (DMS)	23,147	9,699	2,222	1,090	13,011
Wastewater Engineering	3,746	1,570	360	176	2,106
Resource Recovery	6,538	2,739	628	308	3,675
Subtotal Direct Costs	137,773	57,727	13,226	6,489	77,442
Indirect Costs	-	11,545	2,645	1,298	15,488
User Fees	-	2,097	383	171	2,651
Subtotal DC Water Costs	-	71,369	16,255	7,958	95,582
Contracted Biosolids Cost Managed by WSSC	-	(3,678)	0	0	(3,678)
FY 2024 Estimated Blue Plain O&M Costs	-	67,692	16,255	7,958	91,904
FY 2024 Estimated MJUF O&M Costs	-	3,572	2,216	1,579	7,366
FY 2024 Estimated MJUF II O&M Costs	-	18	4	2	25
FY 2024 Estimated Revenues and Collections from the IMA's		71,282	18,475	9,539	99,295

**Based on approved budget for FY24.

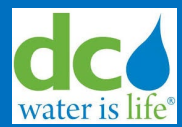


FY 2025 O&M Wholesale-Eligible

\$ in thousands

FY 2025 PROJECTED IMA-ELIGIBLE OPERATING COSTS					
DEPARTMENT	Proposed				Total
	Budget	WSSC	Fairfax	Loudoun	
Wastewater Treatment - Operations	99,254	40,868	9,945	4,775	55,588
Wastewater Treatment - Process Engineering	8,534	3,514	855	411	4,779
Maintenance Services (DMS)	24,763	10,196	2,481	1,191	13,869
Wastewater Engineering	3,722	1,533	373	179	2,085
Resource Recovery	7,775	3,202	779	374	4,355
Clean Water Technology	5,055	2,081	507	243	2,831
Subtotal Direct Costs	149,103	61,394	14,940	7,173	83,507
Indirect Costs	-	12,279	2,988	1,435	16,701
User Fees	-	2,129	389	173	2,691
Subtotal DC Water Costs	-	75,801	18,316	8,781	102,899
Contracted Biosolids Cost Managed by WSSC	-	(4,544)	0	0	(4,544)
FY 2025 Estimated Blue Plain O&M Costs	-	71,258	18,316	8,781	98,355
FY 2025 Estimated MJUF O&M Costs	-	3,772	2,340	1,667	7,778
FY 2025 Estimated MJUF O&M Costs	-	18	4	2	25
FY 2025 Estimated Revenues and Collections from the IMA's		75,047	20,660	10,450	106,158

*Based on current proposed budget for FY26.



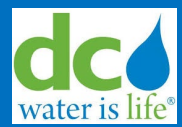
FY 2024 Capital Wholesale-Eligible*

\$ in thousands

FY2024

Categories	Proposed Budget	WSSC	Fairfax	Loudoun	Total
Project Costs & Labor*	448,646	49,237	14,066	7,634	70,937
Equipment	26,937	4,854	1,082	531	6,467
Subtotal (Excludes Capital Indirect)	475,583	54,091	15,148	8,165	77,404
Indirect		4,535	1,022	526	6,083
Total Costs	475,583	58,626	16,170	8,691	83,487
FY 2024 Estimated Capital Costs for Wholesale Customers		\$ 58,626	\$ 16,170	\$ 8,691	\$ 83,487

*Based on Current 10-Year CIP Projection.



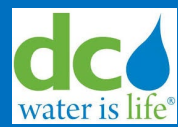
FY 2025 Capital Wholesale-Eligible*

\$ in thousands

FY2025

Categories	Proposed Budget	WSSC	Fairfax	Loudoun	Total
Project Costs & Labor*	639,893	61,520	14,263	6,786	82,569
Equipment	24,532	4,669	1,044	514	6,227
Subtotal (Excludes Capital Indirect)	664,425	66,189	15,307	7,300	88,796
Indirect		5,666	1,036	468	7,170
Total Costs	664,425	71,855	16,343	7,768	95,966
FY 2025 Estimated Capital Costs for Wholesale Customers		\$ 71,855	\$ 16,343	\$ 7,768	\$ 95,966

*Based on current 10-year CIP Projection.



10-Year Disbursement Plan

	FY 2024 - FY 2033 Disbursement Plan											Last Years 10-yr	(Increase)/ Decrease	Lifetime Budget		
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	10-yr Total					
NON PROCESS FACILITIES																
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		
	\$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		
WASTEWATER TREATMENT																
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	\$1,166,208	\$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		
	\$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		
COMBINED SEWER OVERFLOW																
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	\$100,267,378	\$100,267,378	\$40,017,935	\$164,526,690		
	\$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		
STORMWATER																
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		
	\$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 SEWER																
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		
	\$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																
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		
	\$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																
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)					

IY10 Filter Underdrains and Backwash System (FUBS)

- FY 2023 – FY 2025 Planned Disbursements - \$10M
- Total Estimated Project Cost - \$87.6M
- Construction Physical Completion - 0%
- Total Wholesale Customer Share* - 58.8%

Program – Liquid Processing

	Start	Finish
Design	March 2022	June 2024
Construction	March 2025	March 2029



* Represents WSSC, Fairfax, Loudoun & PI