

2024 **TAP** into
BUSINESS



2024 TAP into BUSINESS



Caprecia Poole-Williams

Chief Procurement Officer

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Courtney Edmonds

Director, Office of Supplier
Diversity & Inclusion

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T. Eloise Foster

Chair | Montgomery County

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Eyad Mizian, P.E., Esq.
Chief Engineer



Tap Into Business

Engineering and Construction

Eyad Mizian, P.E., Chief Engineer

June 26, 2024

Agenda

- Department Overview
- Upcoming Projects/Solicitations
- Current Challenges
- Successful Partnerships
- Vision for the Future

Engineering and Construction Department Overview

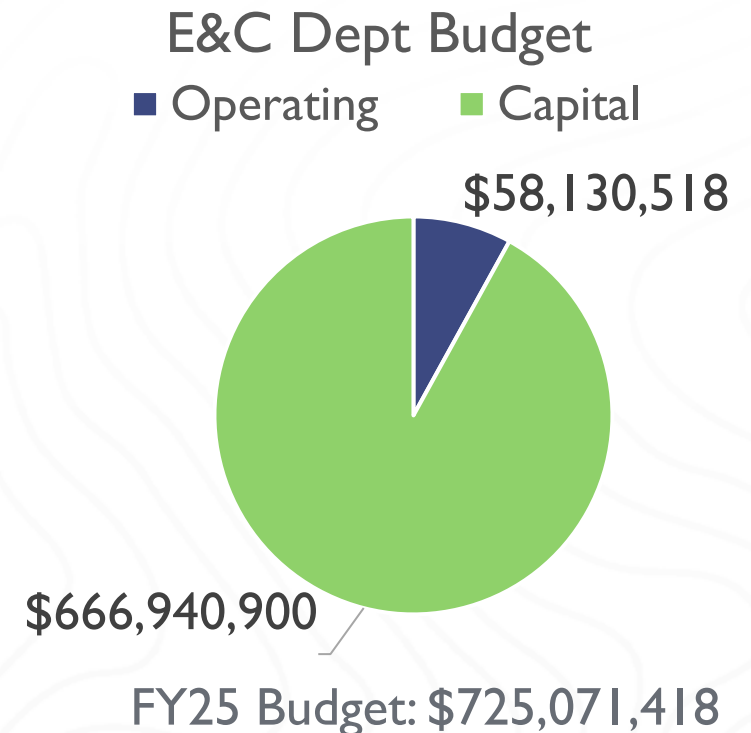
Mission Statement

- Provide engineering and regulatory expertise to plan, design, and build necessary infrastructure as well as operational support for delivering safe water and wastewater services in a timely, cost-effective, and environmentally sound manner.

Engineering & Construction (E&C) Dept:

- 370 Positions
- 19 Vacancies*
- 100+ contract employees
- 8 Divisions and the Office of the Chief Engineer

*As of 06/20/2024



Engineering and Construction Department Organizational Chart



Upcoming Solicitations – Facility Design and Construction



Solicitation Name	Estimated Date	Value
Progressive Design-Build: Parkway WRRF Facility and Electrical Upgrades	FY 25 Q1	\$55M - \$65M
Construction: Western Branch WRRF Potable Water System Upgrades	FY 25 Q1	\$4M - \$7M
Construction: Andrews Elevated Water Storage Facility Rehabilitation	FY 25 Q1	\$5M - \$10M
Construction: Brink Elevated Water Storage Facility Rehabilitation	FY 25 Q1	\$5M - \$10M
Construction: Damascus Town Center WWPS Replacement	FY 25 Q1	\$8M - \$10M
Construction: Greenbelt Standpipe Storage Facility Rehabilitation	FY 25 Q2	\$5M - \$10M
Construction: North Woodside Standpipe Storage Facility Rehabilitation	FY 25 Q2	\$5M - \$10M
Construction: Western Branch WRRF Raw Influent Building VFD Cooling	FY 25 Q2	\$2M - \$4M
Construction: Piscataway WRRF Train 1 and 2 480V Blowers	FY 25 Q2	\$15M - \$20M
Construction: Mill Branch WWPS HVAC & Odor Control Improvements	FY 25 Q2	\$2M
Construction: Patuxent WRP Chemical Building HVAC Improvements	FY 25 Q2	\$2M
Construction: Green Branch WWPS HVAC & Odor Control Improvements	FY 25 Q2	\$3M

Upcoming Solicitations – Facility Design and Construction



Solicitation Name	Estimated Date	Value
Construction: Central Avenue WPS Valve Vault Replacements	FY 25 Q2	\$20M-\$25M
Construction: Anacostia II WWPS Electrical Upgrades	FY 25 Q2	\$30M-\$35M
Construction: Potomac WFP Headhouse Power Feed	FY 25 Q3	\$7M-\$10M
Construction: Western Branch WRRF Main Substation Replacement	FY 25 Q3	\$30M-\$35M
Construction: Parkway WRRF Influent Station and Plant Water Upgrades	FY 25 Q4	\$20M-\$25M

Upcoming Solicitations –Pipeline Design Division



Solicitation Name	Estimated Date	Value
I02-Inch Anacostia Trunk Sewer Replacement and Rehabilitation	FY 25 Q4	\$2M - \$3M
Water and Sewer Engineering Services BOA	FY 25 Q3	TBD
Sewer Management Program	TBD	\$15M - \$20M
Sewer Environmental Services	FY 25 Q3	\$5M - \$10M
Staff Augmentation Services	FY 25 Q3	\$2M - \$4M
Replacement Planning BOA	FY25 Q4	\$2M -\$4M

Upcoming Solicitations –Pipeline Construction Division



Solicitation Name	Estimated Date	Value
Inspection Services Contract IC2025A25	FY 25 Q1	\$8M - \$13M
Environmental Sensitive Areas IDIQ	FY 25 Q4	\$120M - \$180M
Lead Service Line Replacement Public Side	FY 25 Q1	\$60M - \$80M
Water Main Replacement & Rehabilitation IDIQ	FY 25 Q2	\$50M - \$100M
Water Main Replacement (Individual Projects)	FY 25 Q1- Q4	\$80M - \$110M
Sewer Roads Rehabilitation IDIQ	FY 25 Q1	\$60M - \$90M
Commercial Landscaping and Restoration Services	FY 25 Q1	\$5M - \$8M
Area Water and Sewer House Connection Construction	FY 25 Q1	\$5M - \$11M
Lateral - Water and Sewer Connection Construction Renewal	FY 25 Q1	\$15M - \$25M

Pipeline Construction Division

Water Main Replacement – Individual Projects



Project Overview: Individual bids for the construction of distribution and transmission water main replacement projects. These projects will be bid independently.

Project Spend Portfolio: \$80M - \$110M bid through this fiscal year.

Project Name and ID	Estimated Bid Date
Cherry Hill Rd. WMR - BR6325A17	FY 25 Q2
Meadowood Drive - BRCRLR6708A19	FY 25 Q2
Thurston WMR - BR6652A18	FY 25 Q3
Edwards Dr WMR - BR6473A18	FY 25 Q3
Rock Creek Valley WMR - BR6614A18	FY 25 Q3
Chestnut Street WMR - BR6943A20	FY 25 Q4
Traymore St WMR - BR6713A19	FY 25 Q4
Cheltenham WMR - BR6655A19	FY 25 Q4
Trailway Drive WMR - BR6521A18	FY 25 Q3

Pipeline Construction Division

Water Main Replacement – Individual Projects (continued)



Project Name and ID	Estimated Bid Date
Red Coat Lane WMR - BR6652A19	FY 25 Q4
Locris Dr WMR - BR6479A18	FY 25 Q3
Righters Mill WMR - BR6653A19	FY 25 Q4
Vistula Drive WMR - BR5993A16	FY 25 Q4
Jervis St WMR - BR7706A24	FY 25 Q3
White Oak 20" WMR - BT6618A18	FY 25 Q2
Sunflower Drive 16" WMR - BT7038A21	FY 25 Q4
East-West Highway 16" - BT6608A18	FY 25 Q3
Annapolis Road 16" TWMR Phase 2 - BTBR7141B21	FY 25 Q4

Current Challenges

Facility Design & Construction Division

- Long lead time for medium and high voltage electrical gear, particularly transformers and switchgear. Innovative procurement and contracting strategies to help mitigate this.
- Compliance with the American Iron and Steel Act and the Build America Buy America Act as they relate to project funding.

Pipeline Design Division

- Permitting and Easement Acquisition
- Contracting Availability

Current Challenges



Pipeline Construction Division

Supply Chain Issues

- Long lead times for Pre-stressed Concrete Cylinder Pipe adaptors
- Moved to contractor-supplied materials on most projects
- Large valves and fittings have increased lead times
- Pritec coated pipe continues to have long lead times
- DIP lead time has decreased for small diameter pipe

Some Sewer and Water Projects with MDE or Federal Funding

- American Iron and Steel certification requirements must be highlighted in the Contract
- Build-America, Buy-American Act (BABAA) to be part of specific water and sewer projects
- Design documents should include a list of materials subject to these provisions. Verify named manufacturers meet these requirements
- Increase time between Bid and Award

Current Challenges

Planning Division

Private-Side Replacement

- Customer Engagement and Participation
- External Funding for Private-Side Replacement
- Full compliance per LCRI

Engineering & Environmental Services Division

Changing Regulations

- PFAS
- Emerging Contaminants
- Lead and Copper Rule
- Microplastics

Successful Partnerships

- Understand WSSC Water's business
- Mentor and partner with SLMBE
- Reach out and meet with Department Heads and Division Managers
- Attend outreach and pre-proposals and ask questions
- Add value through innovation, knowledge transfer, cost reduction, etc., when responding to a RFP and delivering on projects
- Include Lessons Learned in your RFP and delivering projects
- Be proactive in proposing new ideas and solutions
- Assist with external funding sources (federal/state)
- Be patient – Nothing is promised. Success takes time
- If unsuccessful on a RFP, request a debriefing; *IFBs are lowest bid so there is no debriefing available*

Key Success Factors For Vendors

- Register in the Supplier Portal
- Submit questions to Procurement in a timely manner
- Familiarity with contract and established procedures and design standards
- QA/QC of deliverables and progress estimate is a MUST
- Prompt attention to issues raised in design and submittals.
- Responsiveness to field issues and requests for information during construction.
- Pay attention to permit requirements that impact construction.
- Monitor Subcontractor Payment Verification in the WSSC supplier portal.
- Communication that is timely and accurate.

Vision for the Future and Goals

- Invest in reliable and sustainable infrastructure to protect the environment and deliver best services
- Plan and deliver on CIP projects in an efficient manner to ensure infrastructure reliability
- Optimizing operations by leveraging best practices and innovative technologies to meet the growing services need for our thriving communities
- Implement environmental justice, equity, diversity, and inclusion in the work we do and for the communities we serve
- SLMBE to take a larger role with WSSC Water including priming contracts
- Smaller contracts to encourage increased participation
- Work in a collaborative environment to ensure mutual success





2024 TAP into BUSINESS



Glen Diaz

Utility Services Director



Tap Into Business

Utility Services Department

Glen Diaz, Director

June 26, 2024

Agenda

- Department Overview
- Upcoming Projects/Solicitations
- Current Challenges
- Vision for the Future

Utility Services Department Overview

Mission Statement

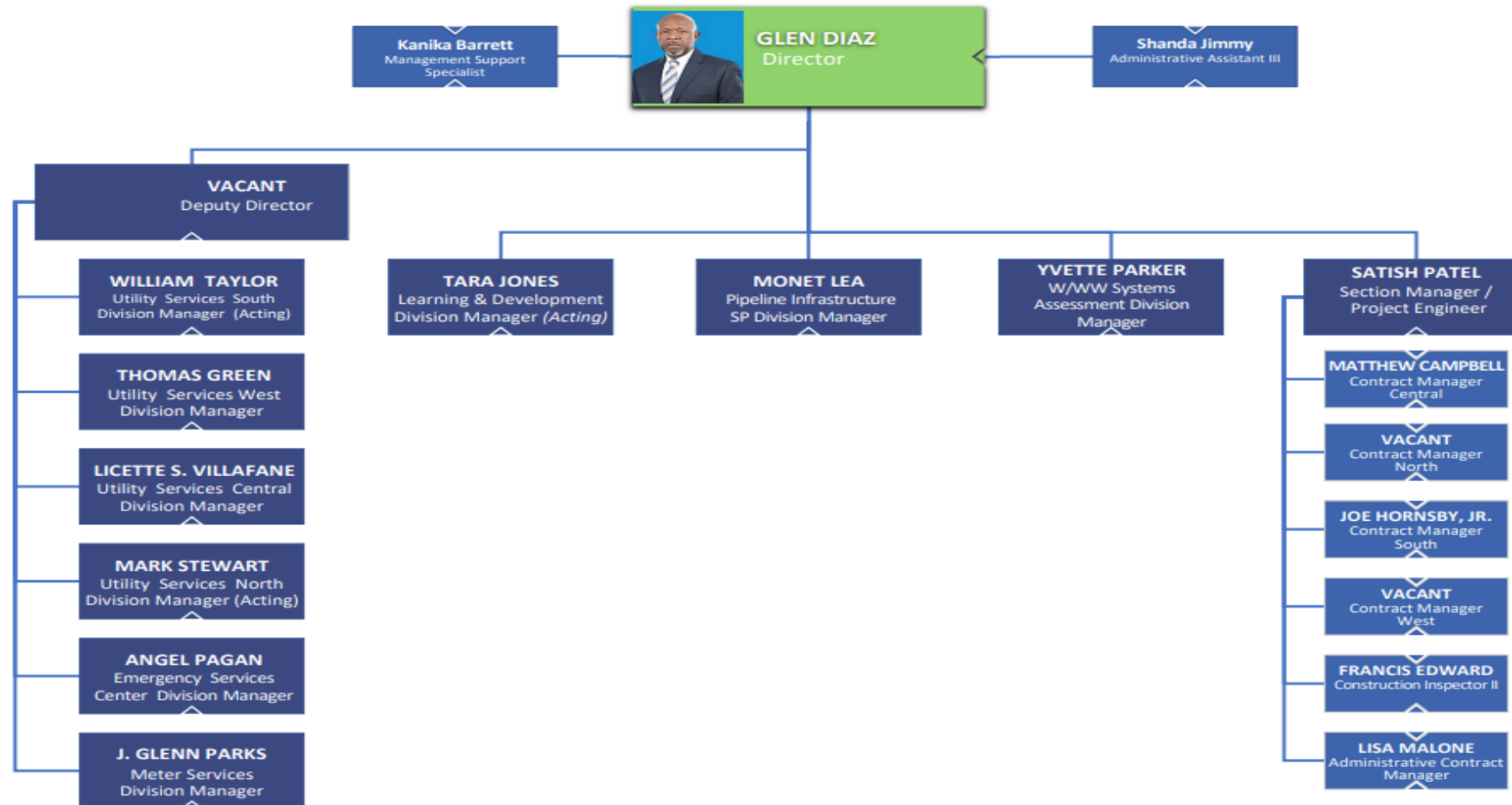
We are entrusted by our community to maintain the water / wastewater infrastructure and protect the environment to deliver dependable and safe water to our customers.

Our Motto is

“Utility Services, a Step Beyond Customer Service.”

Utility Services Department Overview

UTILITY SERVICES DEPARTMENT



Upcoming Solicitations

The following list provides an example of Professional Services we are planning to award in Fiscal Year 2025.

Solicitation/Project Name	Description
Small and Large Water Meter Purchase	<ul style="list-style-type: none"> Contractor shall furnish and deliver small and large water meters along with all required meter registers, accessories and spool pieces that meet or exceed WSSC Water Meter Specifications.
Condition Assessment of Large and Air Release Valves	<ul style="list-style-type: none"> Contractor shall provide project management support and perform inspection rehabilitation, condition assessment, and large valve inspection repairs.

Upcoming Solicitations

The following list provides an example of Goods and Services we are planning to award in Fiscal Year 2025.

Solicitation/Project Name	Description
Large Diameter Metallic Main Tool Provider	<ul style="list-style-type: none"> • Contractor to perform pipe inspection services of metallic watermains 30 inch – 96 inches. • Contractor will use innovative invasive/non-invasive technologies for assessing the condition of lined and unlined metallic water mains.
Small Diameter Metallic Main Tool Provider	<ul style="list-style-type: none"> • Contractor shall provide project management support and perform inspection rehabilitation, condition assessment, and large valve inspection repairs.

Upcoming Solicitations



The following list provides an example of Professional Services we are planning to award in Fiscal Year 2025.

Solicitation/Project Name	Description
Sewer Lateral Inspection	<ul style="list-style-type: none">• Contractor to perform cleaning and closed-circuit television (CCTV) inspection, tap cutting and location of existing sanitary sewer laterals and mains.
Traffic Control Services	<ul style="list-style-type: none">• Contractor shall provide temporary traffic control services on an as needed basis.• The contractor will provide labor, equipment and materials necessary to execute the required Traffic Control Plan.
Leak Detection Services	<ul style="list-style-type: none">• Contractor shall identify possible potable water leaks in the Commission's water distribution system using aerial remote imaging technology.• The Contractor will perform a data analysis reports and provide appropriate techniques to conduct leak verifications.

Upcoming Solicitations

The following list provides an example of Construction Services we are planning to award in Fiscal Year 2025.

Solicitation/Project Name	Description
By-Pass Pumping Services	<ul style="list-style-type: none"> • Contractor shall provide Sewer Bypass Pumping, temporary water bypass, and dewatering services on an as-needed basis. • The Contractor shall provide all materials, labor, equipment, power, tools, and maintenance to implement a temporary by-pass pumping system
Fire Flow Testing	<ul style="list-style-type: none"> • Contractor shall conduct fire flow testing to determine pressure and flow-producing capabilities within the WSSC Water distribution system

Current Challenges

- Attracting enough vendors to bid on WSSC Water contracts
- Supply Chain Issues
 - Disruptions that cause increased costs to goods and services
 - Long lead times for large pipes, valves, and fittings
 - Long lead times for water meters and transmitters
- Access to water and sewer assets
- Permit and Easement Acquisition

Vision for the Future and Goals



Delivering safe, reliable, and sustainable water and wastewater services to support our Smart One Water Mission

- Optimizing Maintenance Practices
 - Implementing proactive and predictive maintenance strategies
 - Using AI tools for water and sewer assessment
 - Smart sensors for sewer flow monitoring
 - Predictive modeling for sewer maintenance
 - Using state-of-the-art technologies for pipeline inspections
 - Leak detection, Pipe wall assessment, PCCP monitoring
 - Timely detection and repair of leaks and breaks
- Protecting our Environment
 - Consent Decree Compliance
 - Asset protection and stream restoration
 - Timely detection and mitigation of sanitary sewer overflows
- Delivering Total Customer Satisfaction
 - Stakeholder engagement and inclusion

Vision for the Future and Goals



Delivering safe, reliable, and sustainable water and wastewater services to support our Smart One Water Mission

- Implementing an Enhanced Meter Infrastructure

Goals:

- Prioritize and replace large meters
- Develop and implement a strategy to enhance the residential meter infrastructure to increase accuracy and support monthly billing

Approach

- Procure Meter Inventory to support infrastructure replacement program
- Advertise Request for Information (RFI) – (Complete)
 - Gather information on metering infrastructure considerations to assist with the enhancement of our meter infrastructure
- Advertise Request for Proposal (RFP)
 - Use information received from the RFI to develop the scope of work





2024 TAP into BUSINESS



Thomas L. Kuczynski
Chief Information Officer



Tap Into Business

Information Technology

Thomas L. Kuczynski, Chief Information Officer

June 26, 2024

Agenda

- Vision, Mission & Promise
- Organization Overview
- Challenges & Opportunities
- Anticipated Solicitations

Vision, Mission & Promise

Vision

"To enable the Commission's Smart One Water vision through innovative DIGITAL solutions, that ensure a sustainable, efficient, and customer-centric focus."

Mission

"Our mission is to empower WSSC Water with cutting-edge technology solutions that enhance operational efficiency, drive innovation, and deliver superior customer and employee experiences in an ethical, reliable, and sustainable way."

Promise

"We promise to deliver secure, innovative, and reliable IT solutions, ensuring efficiency, user satisfaction, and continuous technological advancement for all clients."



Organization

Chief Information Officer

Tom Kuczynski

Infrastructure Services
Mark Turner

Applications Services
Mano Chelladurai

Governance Services
Michael Vernon

Cyber Security Services
Christine Grooby

Finance & Procurement Services
Nneka Assing

Strategy & Architecture Services
Vacant



Challenges & Opportunities

- Enable and support the Commission's Smart One Water Vision
- Facilitate a transition to the Cloud where appropriate
- Consolidate the application portfolio
- Transition to an Agile organization
- Drive Digital Transformation and Innovation

Anticipated Solicitations



Solicitation	Estimated Posting Timeframe
Cityworks Implementation Services	Q1 – 2025
Utility Customer Service Suite Support Services	Q1 – 2025
Utility Customer Service Suite Upgrade Services	Q1 – 2025
Packet Viper – Geo-location filtering	Q1 - 2025
Auditorium AV Design and Implementation Services	Q1 – 2025
Consolidated Customer Payment, Bill Print and Mailing Services	Q2 – 2025
Emergency Management Platform	Q2 – 2025

2024 **TAP** into
BUSINESS



2024 TAP into BUSINESS



Kishia Powell

General Manager and CEO



Tap Into Business 2024 Water Infrastructure Investment is a Rising Tide

June 26, 2024

Kishia L. Powell, WSSC Water
General Manager/CEO



WSSC WATER AT A GLANCE

 106 years of no drinking water quality violations, ever.



8th

Largest water utility in the United States



1.9M

Residents served



162 MGD

Water provided each day



1000 Sq. Miles

Size of WSSC Water's Service Area



1,700+

Members of Team H₂O deliver on our mission



\$114.9B

WSSC Water supports the economic output of Prince George's and Montgomery counties



\$1.8B

FY2025 Operating & Capital Budget



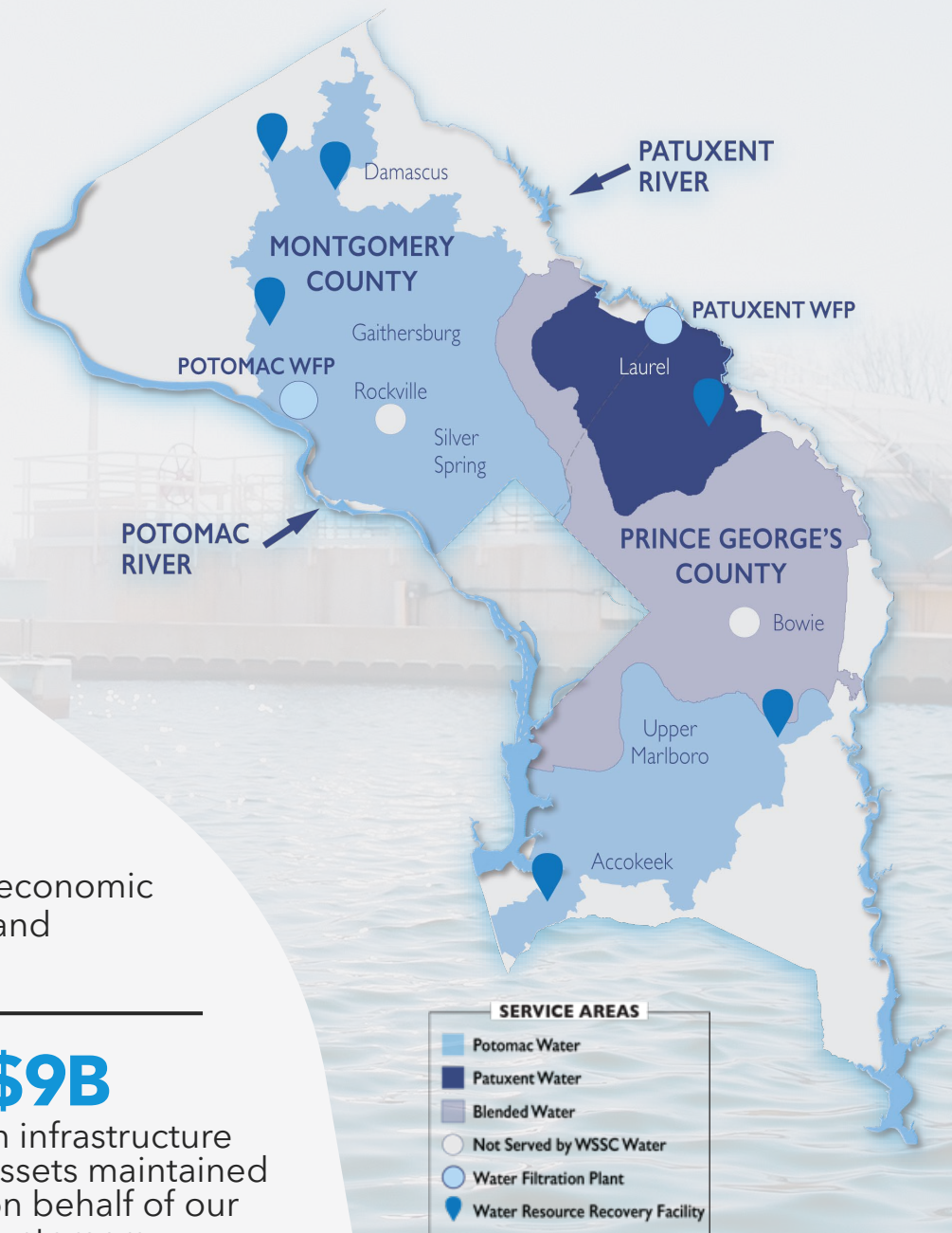
\$5.9B

6-Year Capital Improvements Program



\$9B

In infrastructure assets maintained on behalf of our customers



WSSC Water's STRATEGIC PRIORITIES



Workforce
Development &
Culture



Affordability &
Financial Viability



Optimizing
Operations



Customer
Engagement &
Partnerships



Digital
Transformation



Sustainability &
Resiliency



Justice, Equity,
Diversity and
Inclusion (JEDI)



Asset Management
& Infrastructure
Reliability

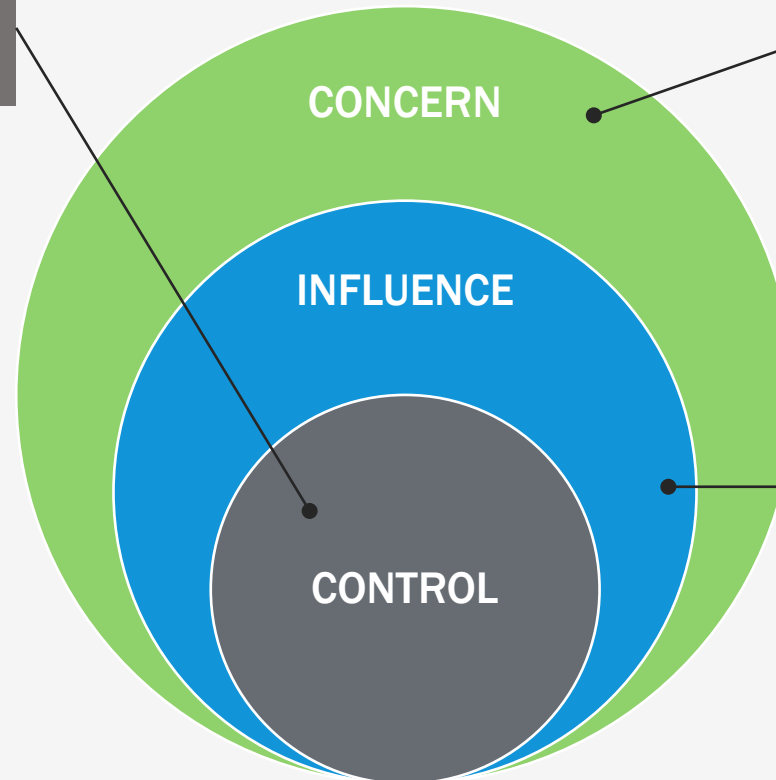
WSSC Water – AN ANCHOR INSTITUTION



Our sphere of CONTROL

Direct control; choices we make about how to manage.

- System (water/wastewater) management
- Permit compliance
- CIP Planning and prioritization
- Service delivery
- Water quality
- Operationalizing equity both internally and externally – pay, opportunity, etc.
- Addressing environmental injustices
- Stakeholder engagement
- SLBE/MBE Utilization



Our sphere of CONCERN

Awareness of impacts and interests.

- Politics
- Regulation
- Climate change
- External funding

Our sphere of INFLUENCE

Awareness of impacts and interests.

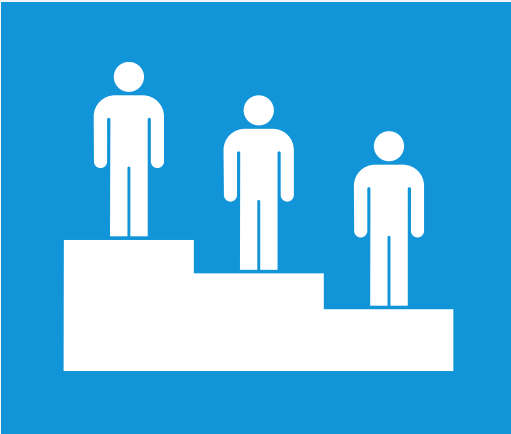
- Economic impact and development
- Affordability
- Social responsibility
- Racial justice
- Jobs
- Governance

Equity and Justice



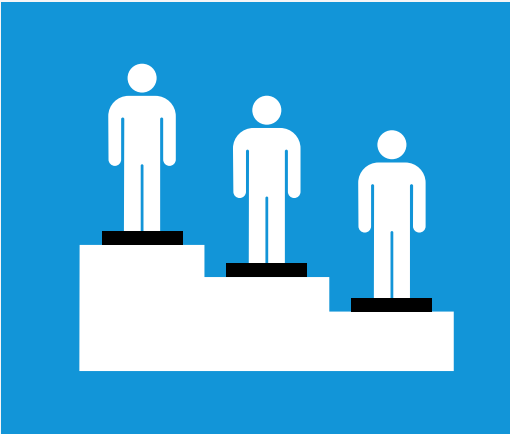
Inequality

Unequal access to opportunities.



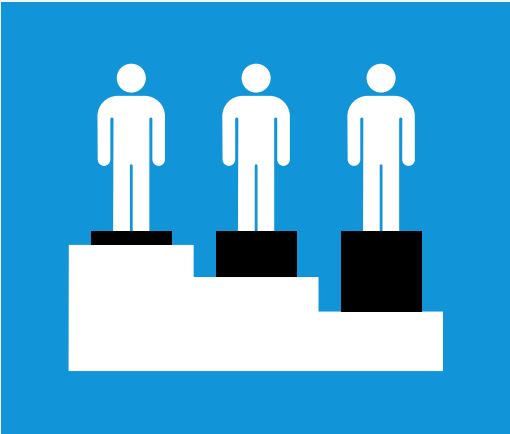
Equality

Everyone gets the **same** – regardless if it's needed or right for them.



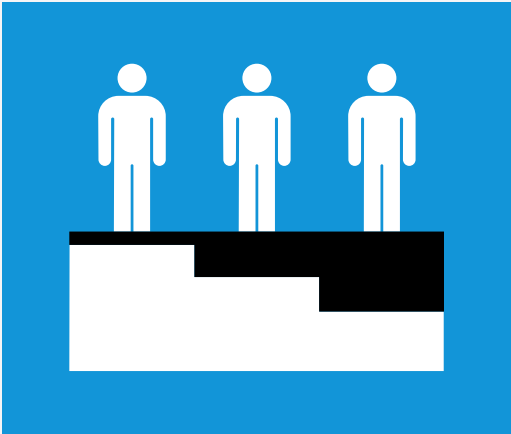
Equity

Everyone gets what **they need** – understanding the barriers, circumstances, and conditions.



Justice

Identifying and addressing the root causes of inequality and taking steps to eliminate them.



Drivers of E&EJ at WSSC Water: *Why, What, Where and How?*



Montgomery
County
Equity Focus
Areas



Prince
George's
County
Revitalization
Tax Credit
Ares



Metropolitan
Washington
Council of
Governments
Equity Emphasis
Areas



Customers/
Disadvantaged
Communities



State of
Maryland
Priority
Funding
Areas



U.S. Environmental
Protection Agency
BIL, IRA, Justice40
Environmental
Justice



Justice40 - Initiative



The Justice40 Initiative was established by President Biden in [Executive Order 14008 on Tackling the Climate Crisis at Home and Abroad](#). Justice40 covered programs are Federal programs that make covered investments in any one of the seven categories. **Goal is for 40% of the benefits of certain federal investments flow to disadvantaged communities.**

73 Environmental Protection Agency
Covered Programs

11 Army Corps of Engineers Covered
Programs

Justice40 Categories

Climate Change, Clean Energy and Energy Efficiency,
Clean Transit, Affordable and Sustainable Housing,
Training and Workforce Development, Remediation and
Reduction of Legacy Pollution, Development of Critical
Water/Wastewater Infrastructure

140+ Department of Energy Covered
Programs

39 Department of Transportation
Covered Programs

Public Law 117-58 117th Congress - Law



- An Act of Congress
 - ‘Infrastructure Investment and **Jobs Act**’
 - Bipartisan Infrastructure Law
 - Focus on disadvantaged communities appears 78 times

(13) SECRETARY.—The term “Secretary” means the Secretary of Commerce.

(14) SOCIALLY OR ECONOMICALLY **DISADVANTAGED** BUSINESS CONCERN.—The term “socially or economically **disadvantaged** business concern” means a for-profit business enterprise—

(A)(i) that is not less than 51 percent owned by 1 or more socially or economically **disadvantaged** individuals; or

(ii) that is socially or economically **disadvantaged**; or

(B) the management and daily business operations of which are controlled by 1 or more socially or economically **disadvantaged** individuals.

SEC. 50104. ASSISTANCE FOR SMALL AND DISADVANTAGED COMMUNITIES.

(a) EXISTING PROGRAMS.—Section 1459A of the Safe Drinking Water Act (42 U.S.C. 300j-19a) is amended—

(1) in subsection (b)(2)—

(A) in subparagraph (B), by striking “and” at the end;

(B) in subparagraph (C), by striking the period at the end and inserting a semicolon; and

(C) by adding at the end the following:

“(D) the number of points of entry must not be less than 1

INDI-
cally
has
1

TITLE IX—GENERAL PROVISIONS—THIS DIVISION DIVISION K—MINORITY BUSINESS DEVELOPMENT

Sec. 100001. Short title.

Sec. 100002. Definitions.

Sec. 100003. Minority Business Development Agency.

TITLE I—EXISTING INITIATIVES

SEC. 100003. MINORITY BUSINESS DEVELOPMENT AGENCY.

(a) IN GENERAL.—There is within the Department of Commerce the Minority Business Development Agency.

(b) UNDER SECRETARY.—

(1) APPOINTMENT AND DUTIES.—The Agency shall be headed by the Under Secretary of Commerce for Minority Business Development, who shall—

(A) be appointed by the President, by and with the advice and consent of the Senate;

(B) except as otherwise expressly provided, be responsible for the administration of this division; and

(C) report directly to the Secretary.

(2) COMPENSATION.

PUBLIC LAW 117-58—NOV. 15, 2021

“(ii) the State of an eligible entity, on behalf of that eligible entity.”;

(2) in subsection (c), in the matter preceding paragraph (1), by striking “An eligible entity” and inserting “Except for purposes of subsections (j) and (m), an eligible entity”;

(3) in subsection (g)(1), by striking “to pay not less than **45 percent**” and inserting “except as provided in subsection (1)(5) and subject to subsection (h), to pay not less than 10 percent”;

(4) by striking subsection (k) and inserting the following:

Megatrends

Shaping the Future
of the Water Sector



Workforce
Development

Diversity, Equity,
Inclusion
& Justice



Emerging
Contaminants



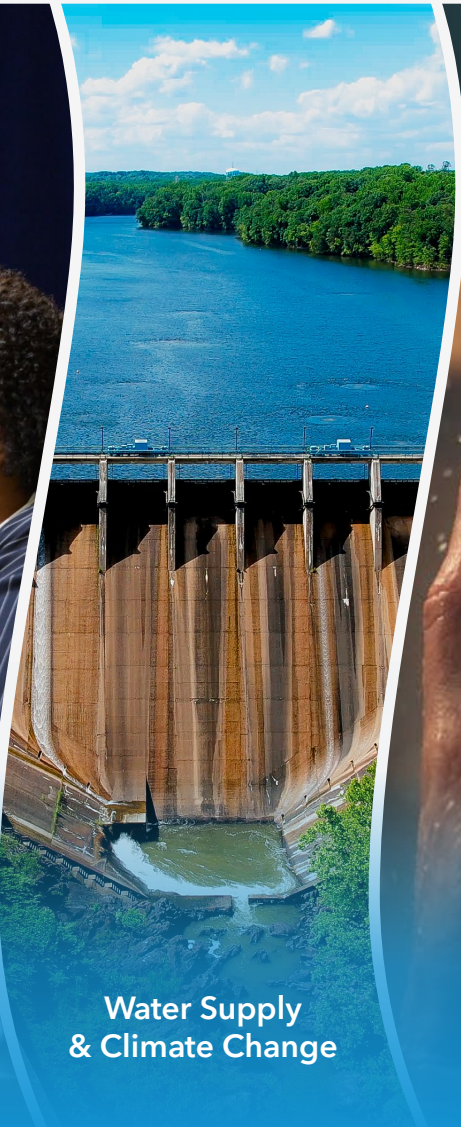
Balancing
Affordability with
Investments in
Aging Infrastructure



Circular Economy



Governance



Water Supply
& Climate Change

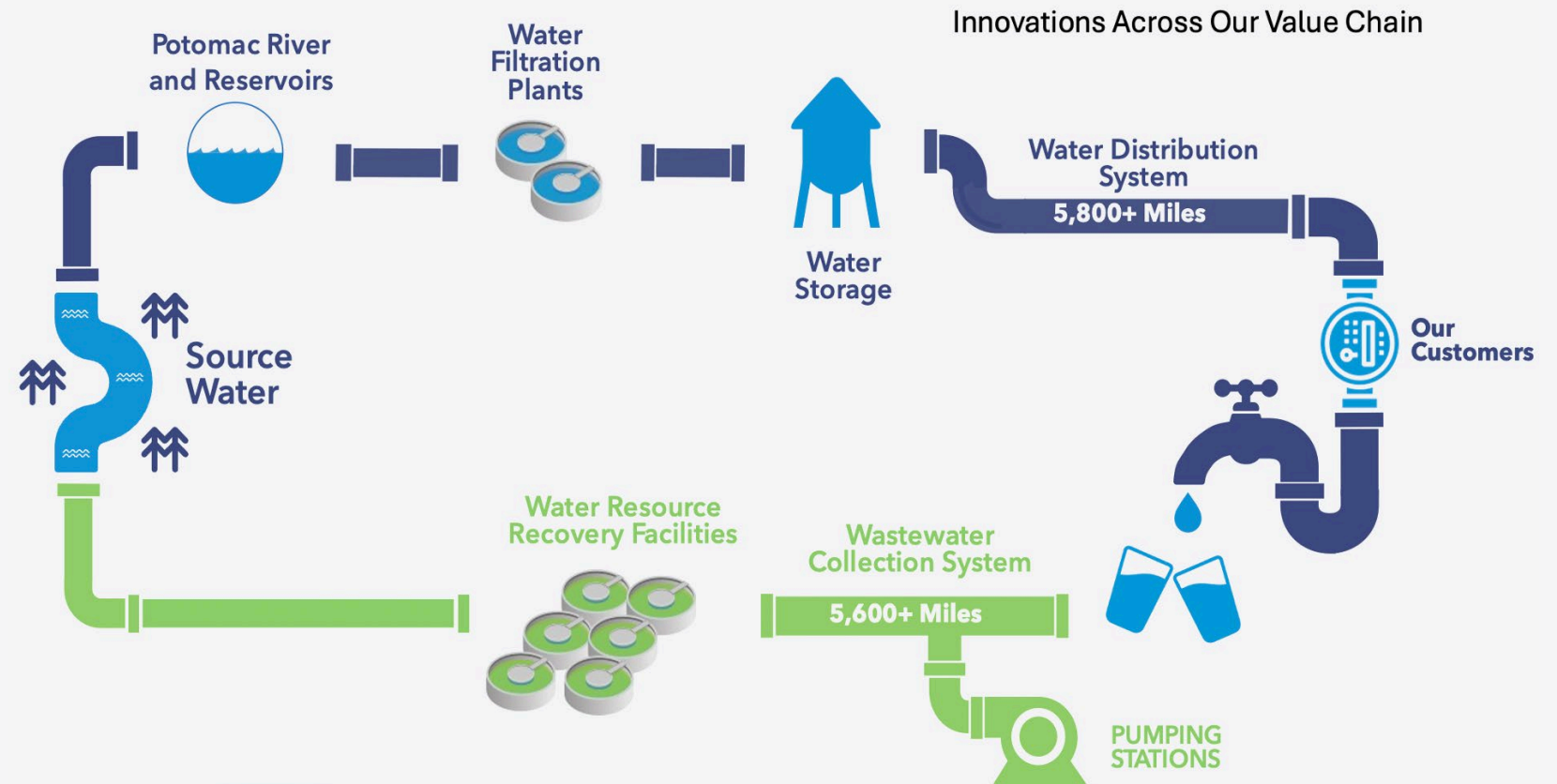


Technology
& Digital
Transformation

WSSC Water's Smart One Water Initiative

Smart One Water is a collaborative, sustainable approach for resilient, reliable water management, seamlessly integrating innovation, technology, and data-driven tools.

It promotes equity for both communities and ecosystems, fostering continuous improvement.



Main domains of the Circular Economy

- PROCESS
- NEXTGEN PROCESS
- ULTIMATE PROCESS



Domains of the Circular Economy

<https://uwmh.eu/research-innovation/57-water-in-the-circular-economy.html>

Water Investment Matters



15-18 jobs per \$1M Spent



Every job we create in the water sector helps add another 3.68 jobs in the national economy.



Every \$1 spent on infrastructure improvements in the US generates \$6 in returns.





WHERE'S THE FUNDING

THE VALUE OF WATER



2024 TAP into BUSINESS

Roundtable Discussions



2024 TAP into BUSINESS

Breakout Sessions Topics and Locations

1. Technology and Innovation

Location: Fenton Room

2. Engineering, Construction, and Utility Services

Location: Ellsworth Room

3. General Services Department

Spring Room