



Facility Design & Construction Division

# Multiple Contracts

Engineering & Construction: **Facility Design & Construction Division**

**March 17, 2026**

# Strategic Plan for Our **Smart One Water** Future



## Vision

In every home, in every business, we make everything possible by ensuring access to dependable and safe water for everyday life.

## Smart One Water Mission

WSSC Water ensures all communities thrive by ethically delivering safe, reliable and sustainable water and wastewater services.

## Promise

Continue the legacy of treasuring our water, customers and employees through dedicated service for current and future generations.

## Values

Just. Accountable. Caring. Community Focused. Excellent. Trustworthy.

## Strategic Priorities



**Workforce  
Development**



**Culture  
Shift**



**Affordability &  
Financial  
Viability**



**Sustainability &  
Resiliency**



**Asset  
Management &  
Infrastructure  
Reliability**



**Optimizing  
Operations**



**Customer  
Engagement &  
Partnerships**



**Digital  
Transformation**

# Agenda

1. Western Branch Potable Water System Upgrade
2. Western Branch Process Train Improvements
3. Anacostia II WWPS Electrical Upgrades
4. Anacostia II WWPS Surge Tanks Removal



# Western Branch Potable Water System Upgrade

Facility Design & Construction Division

**Jabriel Green**, Associate Project Manager



# Team Introductions

# Team Introductions

## Facility Design & Construction Division

- **Theon Grojean**, Division Manager
- **Austin Freeman**, Section Manager
- **Jabriel Green**, Associate Project Manager



# Project Objectives

# Project Objectives

- Construct new potable water system consisting of two new water supply wells to a depth of 350ft.
- Install new treatment building including process tanks for treatment and approximately 4000 linear ft of new distribution piping.
- Install all electrical and mechanical components related to the wells and distribution system including pumps and duct banks.
- Perform all necessary sitework such as clearing and grubbing, grading, E&S controls and pavement restoration.



# Project Overview

# Project Overview

- Western Branch Water Resource Recovery Facility uses groundwater as its source of potable water.
- An on-site water well pumps and distributes water to the different buildings within the facility.
- For process-related water needs, there is an independent system that uses plant effluent as its source.
- Approximately 341ft deep and was drilled in 1966. It was designed for 5 MGD and provides both potable and process water for the plant.
- Plant expanded to 30 MGD in the mid-1970s, and the system was dedicated to only supply potable water to the plant, including fire hydrants on the east side.
- Existing well lies within the flood plain.
- Sampling of the water system tested positive for total coliforms.
- The piping and components within the vault are corroded.





# Keys to Success

# Keys to Success

- Work completed as required in the task schedule
- Task cost is within budget
- Minimum or no scope changes on the task
- Quality of work meets the contract requirements/ Quality Control
- Open communications with WSSC managing and inspection staff
- Provide the proper resources for each task
- Address problems within a reasonable time period
- Document project activities



# Contract Compliance

# Contract Compliance

- Submit monthly invoices
- Address task orders in a reasonable time as stated in contract.
- Perform task order scope of work
- Assure contract is completed within the specified time.
- Assure approved materials are installed on the project
- Assure quality standards are met on all activities





# Western Branch Process Train Improvements

**Misrak Shiferaw**, Senior Civil Engineer



# Team Introductions

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## Facility Design & Construction Division

- Theon Grojean, Division Manager
- Austin Freeman, Section Manager
- Misrak Shiferaw, Senior Civil Engineer



# Project Objectives

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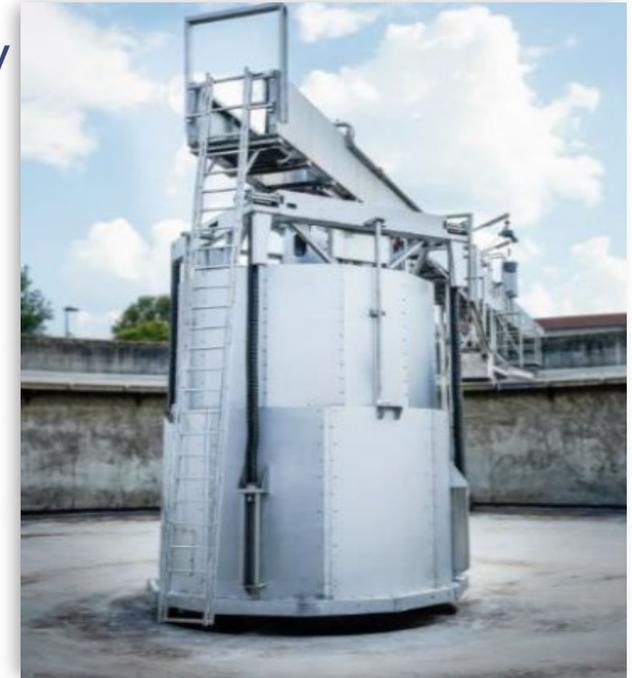
- Rehabilitation of aging concrete structures
- Replacement of Clarifiers launders, slide gates, and railing repairs
- Replacement of diffusers and mixers
- HRAS Modifications for CS
- Replacement of blowers and MCCs
- Improvements to the in DENSE™ system
- Replacement of the final clarifier mechanism with Spiral scraper blade, launder covers, scum pumping system.

6600 Crain Hwy, Upper Marlboro, MD 220772



# Project Objectives

- Installation of a telescoping center well (Hydrograv Adapt system) in at least one of the final clarifiers .
- Installing a new high flow relief piping system to convey flows in excess of 90 mgd .
- And all other associated work to make a complete and operable system including associated HVAC, Electrical, bypass pumping and Instrumentation systems
- Perform all necessary sitework such as clearing and grubbing, grading, E&S controls and pavement restoration





# Project Overview

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- The Western Branch Water Resource Recovery Facility has a permitted capacity of 30.6 mgd annual average and originally provided for up to 60 mgd peak hourly flow conditions, the facility also receives high flow wet-weather events in recent years. The existing facility was built in the early 1970s and has numerous structures and equipment that have reached their useful life needing replacement. The proposed improvement will improve the functioning and treatment capability of the biological process trains during weather-related high flow events, improve flow distribution throughout the secondary clarifier, and extend the useful life of structures and equipment at the facility.



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# Project Compliance

# Project Compliance

- Submit monthly invoices
- Project is funded through the Maryland SRF Program, as such as all contractors must adhere to federal Davis-Bacon prevailing wage rates, comply with Build America, Buy America Act Provisions and fulfill DBE participation requirements.
- Perform scope of work in a reasonable time as stated in the contract
- Assure approved materials are installed on the project
- Assure quality standards are met on all activities





# Anacostia II WWPS Electrical Upgrades

**Brian Worthington**, Facility Construction Manager



# Team Introductions

# Team Introductions

## Facility Design & Construction Division

- **Theon Grojean**, Division Manager
- **Austin Freeman**, Section Manager
- **Brian Worthington**, Facility Construction Manager



# Project Objectives

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- Removal and replacement of 13.8kV Outdoor Switchgear within an Integrated Power Assembly (Switchgear Enclosure)
- Removal and replacement of 4.2kV Outdoor Switchgear within an Integrated Power Assembly (Switchgear Enclosure)
- Removal and Replacement of 2 13.8kV to 4.2kV Transformers
- New foundations for switchgears and housings.
- Various other siteworks





# Project Overview

# Project Overview

- The Anacostia II Wastewater Pump Station (WWPS) is WSSC Water's largest WWPS with peak flows up to 306 MGD.
- The Anacostia II WWPS delivers the majority of WSSC's wastewater to Blue Plains in D.C.
- The majority of the station's electrical equipment was installed with the original construction in late 1970s and is beyond its useful life.
- Electrical Equipment components are becoming increasingly difficult to source due to obsolescence.
- Failure of any of the electrical components could cause serious issues.
- Based on the above need, this project provides the replacement and upgrade of the Anacostia II Wastewater Pumping Station Electrical system.





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# Anacostia II WWPS Surge Tanks Removal

**Wanpin Lee**, Facility Construction Manager



# Team Introductions

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## Facility Design & Construction Division

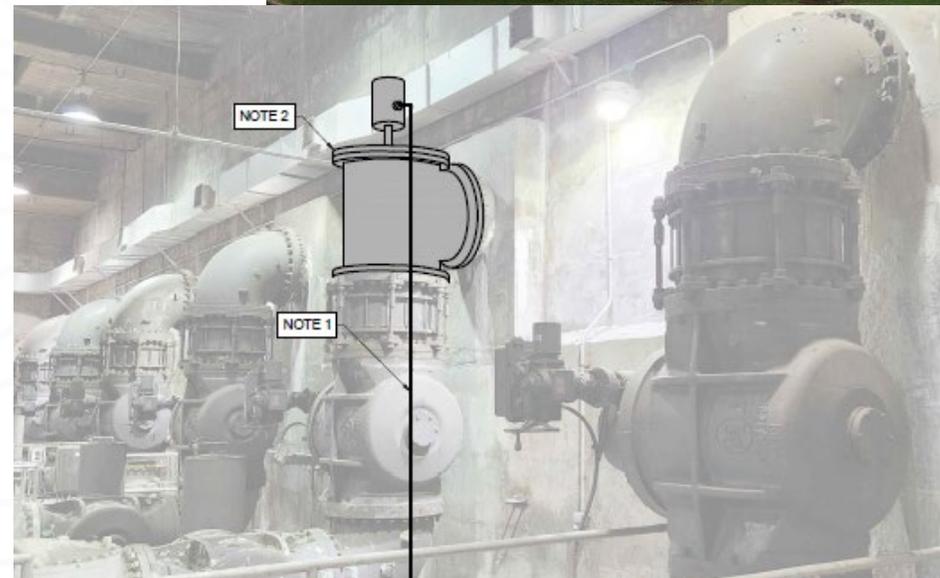
- **Theon Grojean**, Division Manager
- **Claude Modise**, Section Manager
- **Wanpin Lee**, Facility Construction Manager



# Project Objectives

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- Demolition of the eight (8) existing surge tanks
- Installation of ten (10) Combination Air Valves
- Perform all necessary sitework such as clearing and grubbing, grading, E&S controls and pavement restoration

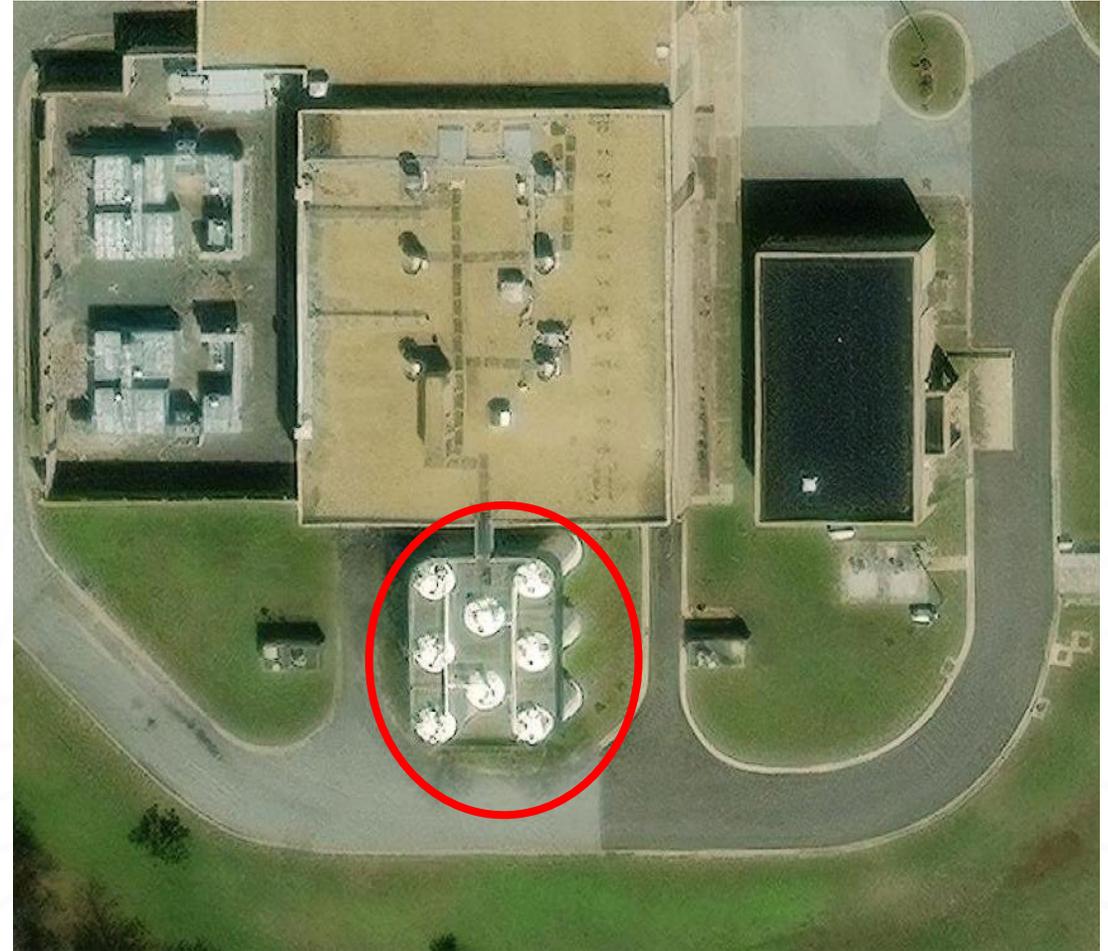




# Project Overview

# Project Overview

- Location: Anacostia II Wastewater Pump Station (WWPS) , Capitol Heights, MD 20743
- The surge tanks are located south of the Anacostia II Wastewater Pump Station (WWPS) and have not been used since installation
- Project Scope: remove surge tanks, lead based paint containment, restore site, and install air valves





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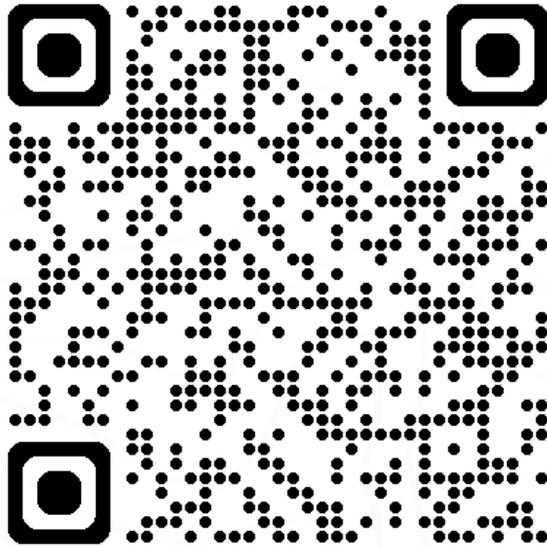




# Supplier Portal and OpenGov Platforms

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**Scan** to register with the Supplier Portal

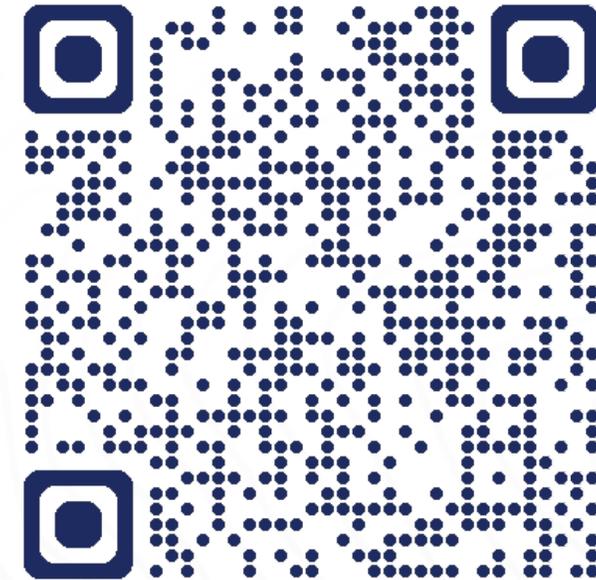


or **Visit:**

<https://www.wsscwater.com/supplier>



**Scan** to register with OpenGov



or **Visit:**

<https://procurement.opengov.com/portal/wsscwater>





# Questions?

For past event's presentations and sign in sheets, visit  
[www.wsscwater.com/work-us/procurement/outreach-events](http://www.wsscwater.com/work-us/procurement/outreach-events)

