Heavy Civil GC/CM Services for Mouth of Duwamish Combined Sewer Overflow (MDCSO)

Wet Weather Treatment Station

May 22, 2025



Department of
Natural Resources and Park
Wastewater Treatment
Division



Agenda

- Program Overview
- Project Background
- GC/CM Qualification
 - Meets Applicable Criteria
 - Management Plan
- Public Benefits
- Summary

King County Wastewater Treatment Division

Mission

We protect public health and the environment by collecting and cleaning wastewater while recovering valuable resources for a healthy and thriving Puget Sound Region.

Service

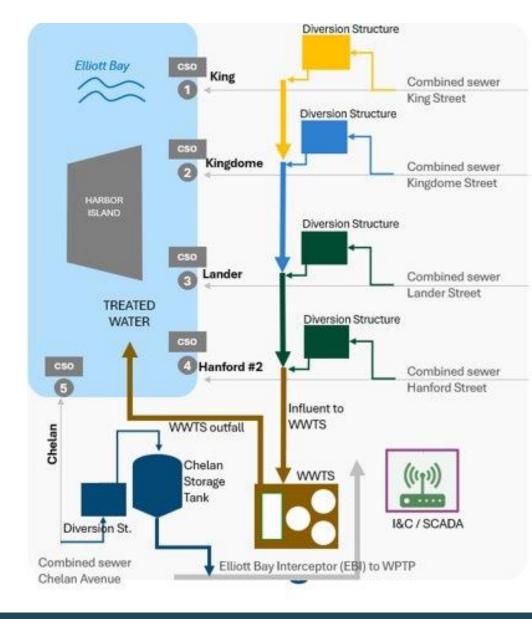
24/7/365 essential wastewater service to almost 2 million people and businesses in King County, plus portions of Pierce and Snohomish counties.



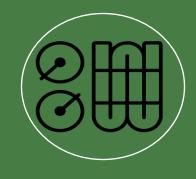
King County Wastewater Treatment
Division Service Area

Program Overview

- Deliver facilities to **control sewer overflows** during wet weather in the Duwamish River.
- Governed by a consent decree between King County, the EPA, and Ecology that set specific project requirements and deadlines of substantial completion in 2034 for this program.
- Achieve regulatory compliance per RCW 90.48 and WAC 173-245.
- Manage multiple projects in a coordinated way, with benefits that could not occur if the projects were handled separately.



MDCSO Packages



Wet Weather Treatment Station

- Pumping
- Screening
- Sedimentation
- •EQ
- UV Disinfection
- Solids Storage
- •Electrical Systems



Effluent Conveyance & Outfall

- •Effluent Conveyance to the WWTS Outfall (open cut & trenchless)
- •WWTS Effluent Outfall and Diffuser



Influent Conveyance

- •EBI to WWTS Conveyance
- Hanford to WWTS Conveyance
- •Improvements for each HLKK Regulator Station
- •EBI Diversion Structure
- •Lander and Hanford Diversion Structures



Chelan CSO

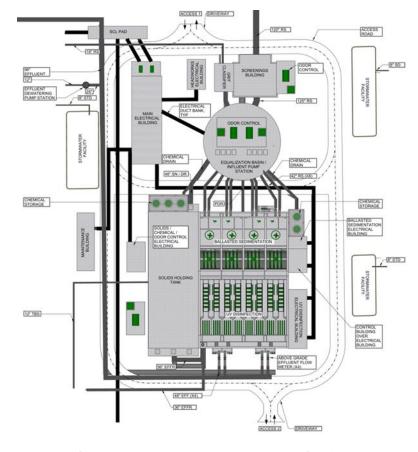
- •Chelan Storage Tank
- •Chelan Conveyance
- •Chelan Diversion Structure
- •Chelan Regulator Station Improvements

Project Background

Project Overview

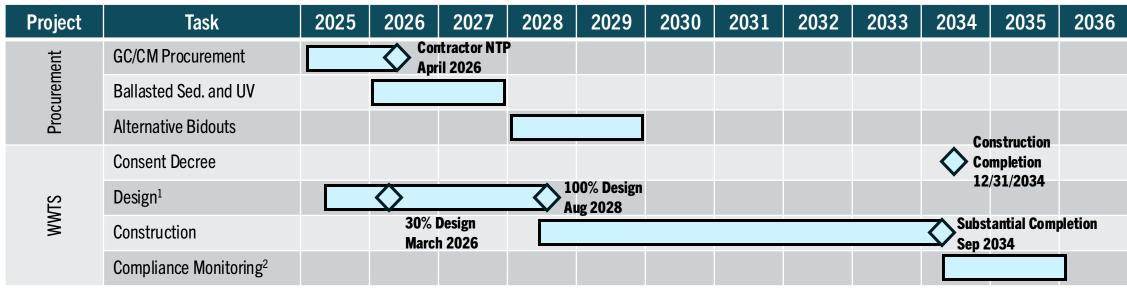
The MDCSO-WWTS is a project to construct a new 240 MGD capacity wet weather treatment station by 12/31/2034. The facility will operate intermittently, providing physical treatment steps (screening, solids removal, and disinfection) during heavy storms, to prevent untreated overflows into the east waterway at the mouth of the Duwamish River.

- Demolition of existing structures and foundations
- Shoring and excavation work (including contaminated soil)
- Ballasted sedimentation, UV disinfection, solids handling, and odor control systems
- Key constructability considerations include 125-foot depth secant pile shoring or diaphragm slurry wall



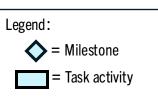
Site Plan – Wet Weather Treatment Station

Key Schedule Milestones



¹ Design duration is 30% Design through Final Design.

RFP Advertisement Date is scheduled for September 2025.



² Compliance monitoring to occur over two wet weather seasons; end date subject to change.

GC/CM Qualification

Meets Applicable Criteria

Qualifying Criteria

- ✓ Complex scheduling, phasing, and coordination
- ✓ GC/CM involvement during design is critical
- ✓ Complex technical work environment
- ✓ Heavy Civil

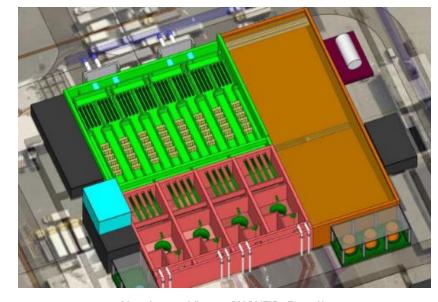
X Historical Significance – N/A



1. Complex Scheduling/Phasing

Accelerated schedule is critical to meet Consent Decree milestones

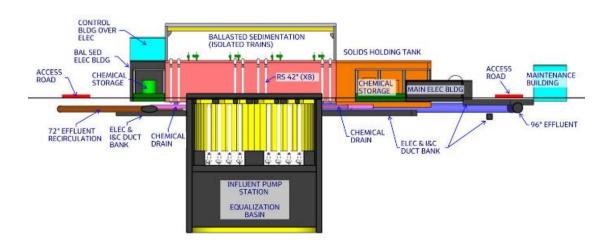
- Critical path for program delivery, must be operational for downstream packages to function
- Connections / integration with conveyance must be completed during dry season
- Complex environmental permitting requirements, including the relationship between design and permitting across multiple packages



Northeast View of WWTS, Detail

2. GC/CM Involvement is Critical

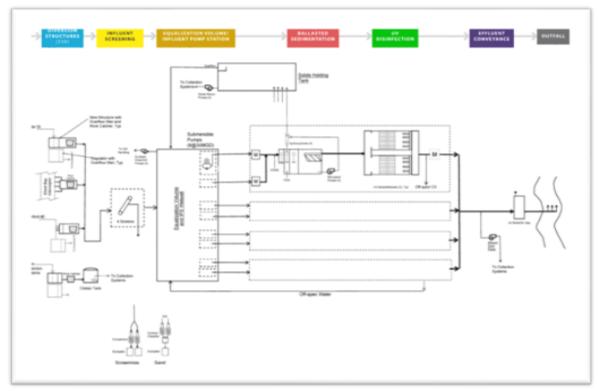
- Develop and refine sequencing of the work to meet consent decree schedule requirements
- Initiate critical early work
- Value engineering and constructability reviews
- Improved cost estimating
- Collaborative risk management
- Engage local contracting community through subcontracting



Proposed WWTS South Facing Section

3. Complex & Technical Environment

- Contamination exists in a portion of the proposed site, extent and nature of mitigation is unknown
- Site location is close to the Duwamish waterway, potential for seismically induced lateral spread and liquified soil
- Site borders multiple rail lines requiring complex permitting
- Tight urban site with constrained access and phased laydown/staging



Proposed WWTS Process Flow Diagram

4. Heavy Civil

- Work is primarily infrastructure
- GC/CM control of critical path (early work packages, procurements, etc.)
- Increased self performance threshold improves schedule certainty
- Technical complexity and Consent Decree deadline require flexible and responsive delivery

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WWTS Hydraulic Grade Line (Partial)

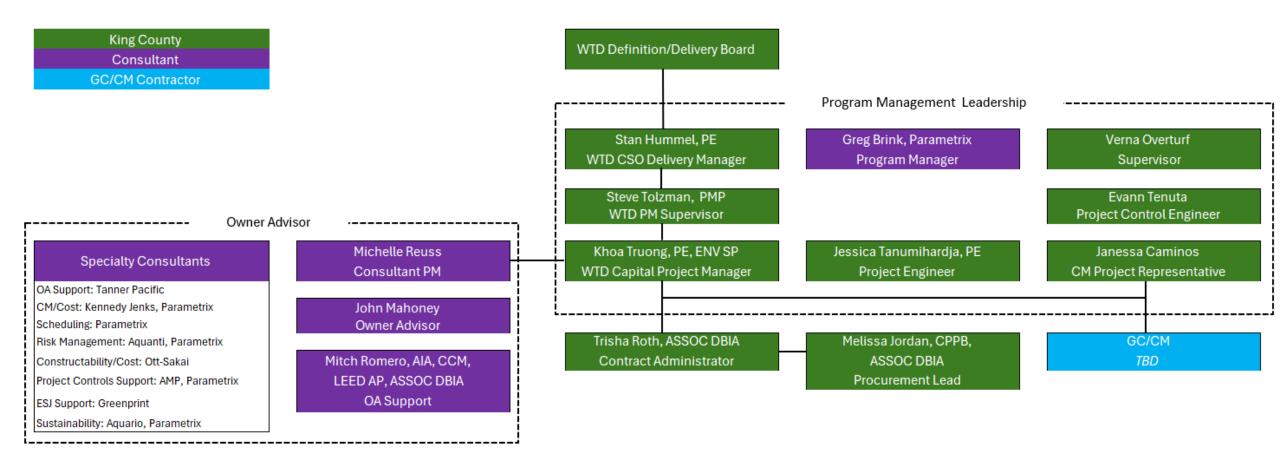
Supportive contractor feedback through industry outreach including tactical RFIs



GC/CM Qualification

Management Plan

Org Chart



Qualified Team

- Stan Hummel (CSO Delivery Manager) 33 yrs, 3 GC/CM projects
- Steve Tolzman (Program Manager) 20+ yrs project management
- Khoa Truong (Project Manager) 18 yrs, 2 GC/CM projects
- Jessica Tanumihardja (Project Engineer) 10 yrs, Elliott West CSO Facility GC/CM
- Janessa Caminos (Construction Manager) 10 yrs, 2 GC/CM projects
- Melissa Jordan (Procurement Lead) -17 yrs public procurement experience, 4 GC/CM projects
- Trisha Roth (Contract Administrator) 20 yrs, 2 GC/CM projects
- Greg Brink (Program Manager) 20 yrs, 5 GC/CM projects
- Michelle Reuss (Consultant Project Manager) 25 yrs, 2 GC/CM projects
- John Mahoney (Owner Advisor) 25 yrs, 2 GC/CM projects
- Mitch Romero (Owner Advisor Support) 30 yrs, 13 GC/CM projects
- Anne Timmermans (Construction Manager) 21 yrs, 7 GC/CM projects
- Nicki Pozos (Program Equity Manager) 20 yrs, 5 GC/CM projects

Budget & Funding

- Current Proposed Budget \$2.01B
- Total GC/CM Budget \$1.17B
 - Includes preconstruction services and sales tax
- Project will be funded by King County Wastewater utility rates

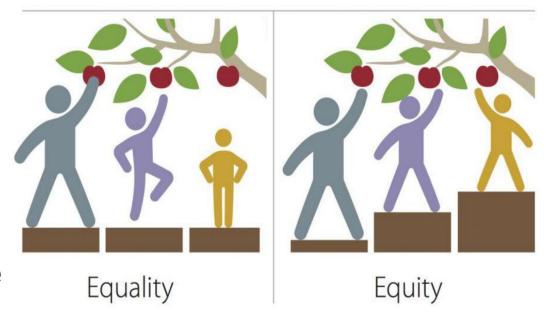
MDCSO-WWTS: AACE Class V Cost Estimate				
Construction Costs	\$1,283.2M			
Non-Construction Costs	\$238.5M			
Right-of-Way	\$68.4M			
Contingency	\$405.6M			
Initiatives	\$15.4M			
Total 1,2	\$2.01B			

¹ Includes escalation

² Estimate based on ~15% Design

Equity & Social Justice

- Pro-Equity Contracting Goals
- Expand opportunities and maximizing participation for Certified DBE, MBE and WBE firms throughout design and construction
- Mentor Protégé program
- Good Faith Efforts will be monitored throughout the project
- ESJ Coordinator/Manager will be required
- Compliance monitoring in King County's
 Diversity Compliance Management System



"I want to open the doors of opportunity to every single person in King County, Washington. That's why I issued an executive order strengthening pro-equity contracting, so that our minority-and women-owned businesses can substantially increase their participation in County contracts."

- Former King County Executive Dow Constantine

Diverse Business & Utilization

Project Name	Contract Value	Commitment	Achievement	Contract Status
Wastewater Treatment Division Projects				
Georgetown Wet Weather Treatment Station (GWWTS)	\$107,543,926	$\begin{array}{l} \text{MBE} - 4.7\% \\ \text{WBE} - 1.4\% \end{array}$	$\begin{array}{l} \text{MBE} - 6.7\% \\ \text{WBE} - 3.0\% \end{array}$	100% complete
GWWTS - Conveyance	\$22,362,090	MBE – 10% WBE – 6%	MBE – 17.4% WBE – 7.5%	100% complete
Eastside Interceptor Section 2 Rehab Phase II	\$20,536,847	SCS - 8%	SCS - 11.8%	100% complete
WPTP Primary Sedimentation Area Roof Structure	\$23,006,376	DBE - 0% SCS - 20%	DBE - 3.4% SCS - 19.6%	100% complete
Other King County Projects				
RapidRide H Line Bus Rapid Transit Improvements	\$27,765,898	SCS - 15%	SCS – 29%	95% complete
Children and Family Justice Center	\$188,595,995	SCS – 17% MBE – 10% WBE – 6%	SCS – 16% MBE – 0.023% *SCS/MBE – 4% WBE – 2.26%	97% complete
Harborview Medical Center Maleng Single Patient Rooms PDB	\$63,682,724	MBE – 20% WBE – 5%	MBE – 21% WBE – 5.7%	100% complete



Master Community Workforce Agreement

Priority Hire

Addresses construction workforce shortage, diversifies the construction workforce, and provides disadvantaged communities access to opportunities

Prioritizes individuals living in economically distressed King County areas (Priority Hire zip codes)

Provisions in King County Code (KCC 12.18A) and Contract Specifications including all terms and conditions of the Master Community Workforce Agreement (MCWA)

Workforce Requirements

Apprenticeship: Apprentices must work a minimum of 15% of the total labor hours.

Priority Hire Apprenticeship: Priority Hire Apprentices shall work 27% of all apprenticeship labor hours.

Priority Hire Journey Workers: Priority Hire Journey Workers shall work 18% of all journey labor hours.

Preferred Entry: 20%

Public Benefits

Public Benefits

GC/CM

- Schedule
- Risk management
- Enhanced cost control
- Maintaining level of service

Heavy Civil

- More delivery control
- Improved flexibility in planning and sequencing work
- Improved market attractiveness per industry feedback
- Self perform work increases schedule predictability

Alternative Subcontracting

Benefits

- Secure continued involvement of key staff
- Engagement in planning for constructability
- Early procurement of long lead materials
- Specialized skill requirements
- Supports price and schedule certainty

Proposed Alt. Subcontracts

- Mechanical
- Electrical
- Structures
- Specialized Equipment

Supportive contractor feedback through industry outreach including tactical RFIs

Summary

Summary

Meets Qualifying Criteria

- ✓ Complex Schedule
- ✓ Technically Complex
- ✓ GC/CM Involvement During Design is Critical
- ✓ Seeking Heavy Civil Approval
- ✓ Public Benefits: Risk Management, Time, Cost

Alternative Subcontracting

✓ Public Benefit: Electrical, Mechanical, Specialty Equipment, and Structures

