

Division of Water Update

ASCE Luncheon, December 4, 2025

David Opferman, P.E., BCEE, LEED AP
Manager - Water Supply Engineering Section



Water System Overview

■ Source

- Two watersheds
- Four Class 1 Dams
- Four reservoirs
- One wellfield

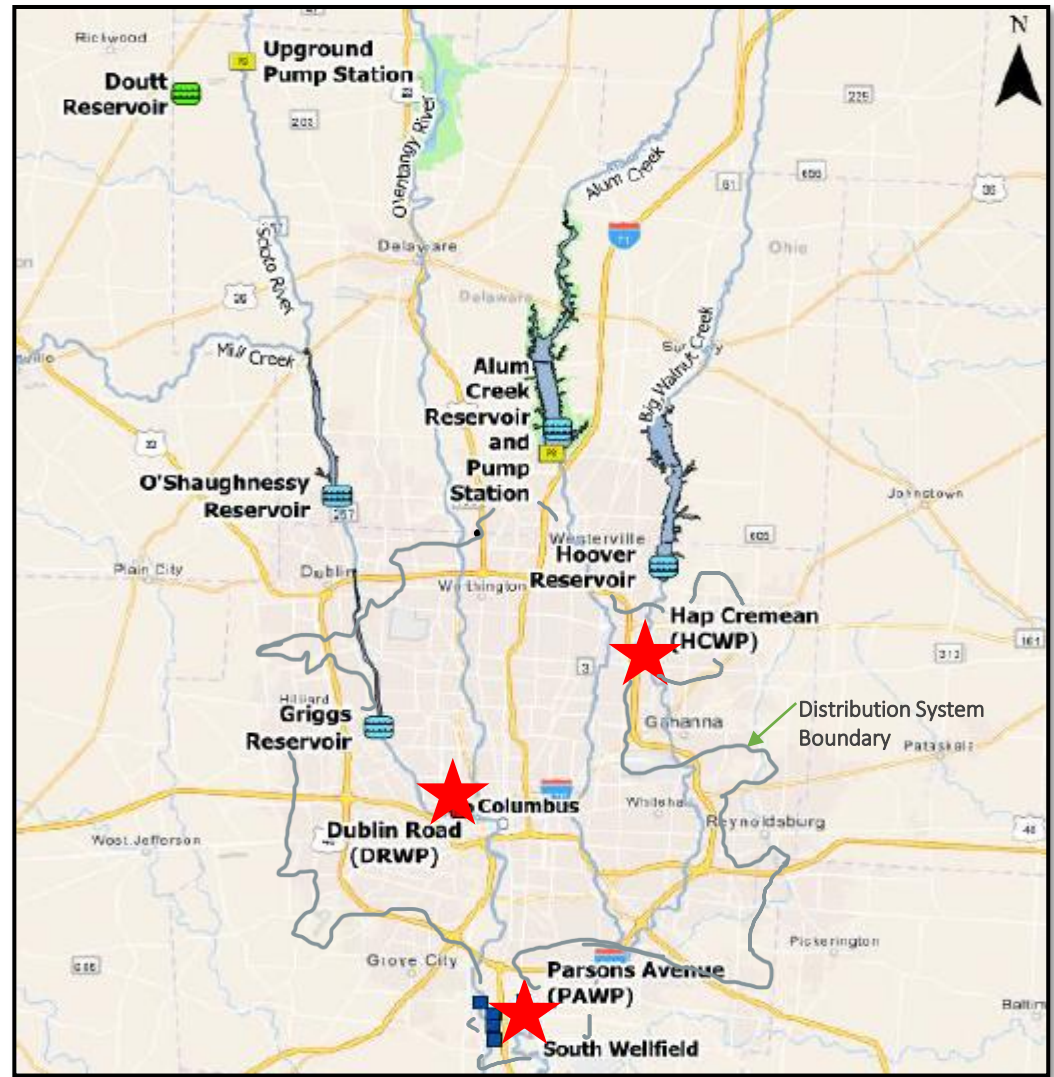
■ Treatment

- Three water plants

■ Distribution

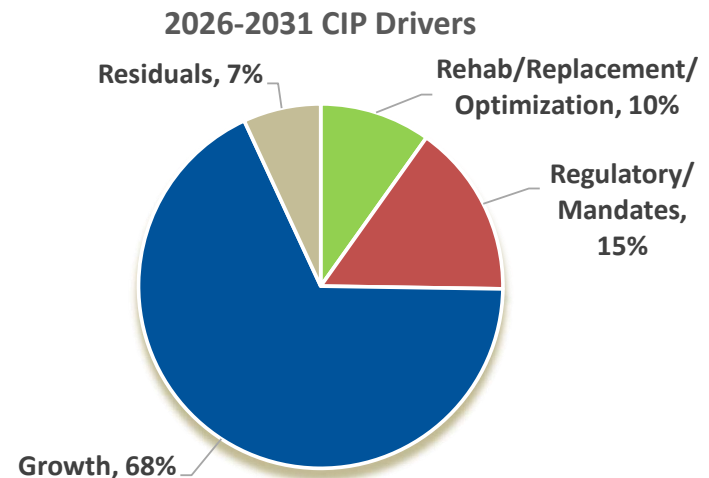
- 1.4million customers
- 3,600 Miles of water main
- 27 Booster stations
- 38 Water tanks

Water Supply Facilities



Primary Capital Investment Drivers

- Regional growth (population, commercial & industrial demands)
- Aging infrastructure
- Regulatory requirements
- Residuals management



Key Ongoing Projects / Initiatives



Key Ongoing Projects / Initiatives

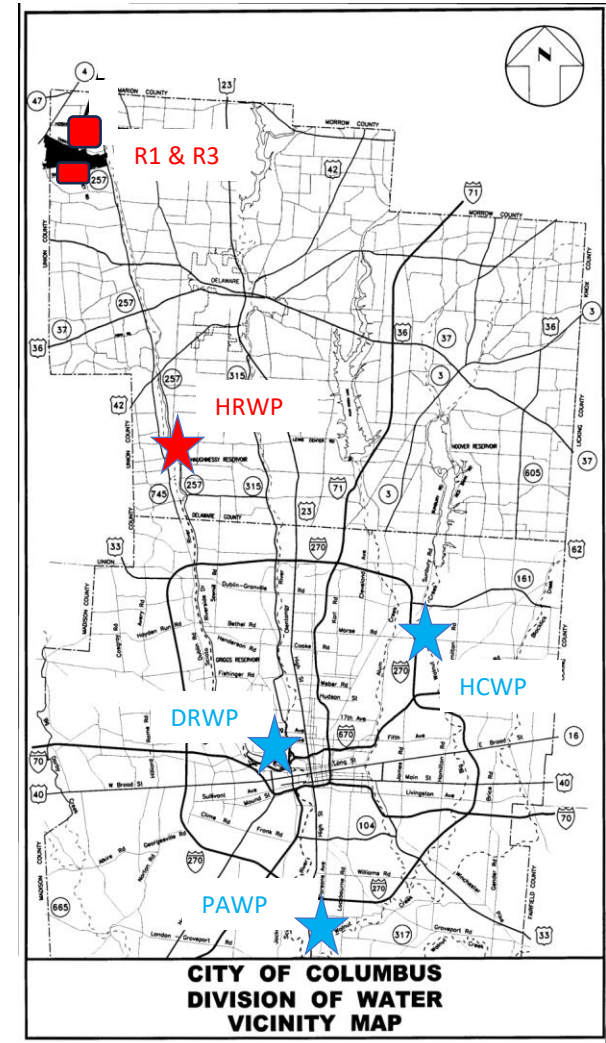
– Source & Treatment

■ Source

- Collector Well 112
- Upground Reservoirs R1 and R3

■ Treatment

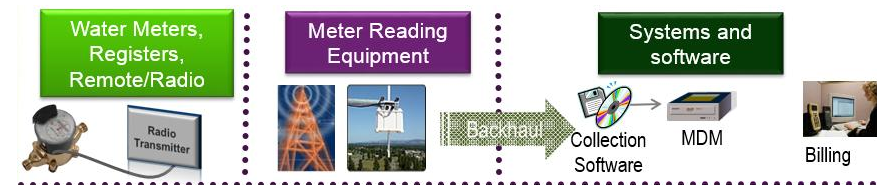
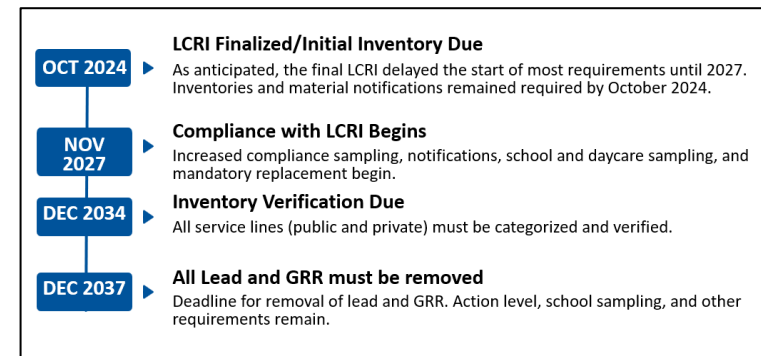
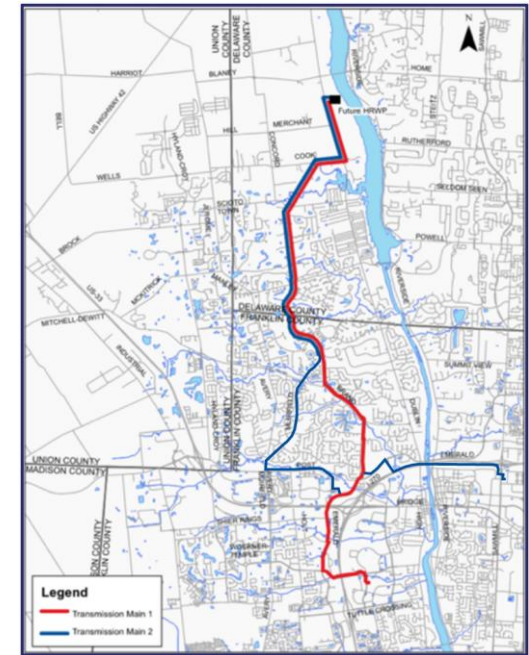
- Home Road Water Plant (HRWP)
- PFAS - DRWP GAC Improvements
- HCWP & PAWP Hypo Conversion
- MAQ Residuals Dewatering Facility



Key Ongoing Projects / Initiatives

– Distribution

- Home Road Water Plant – Transmission Mains
- Water Pipe Rehabilitation and Replacement (R&R) Program
- LCRI Compliance
- Technology Improvements
 - Enhanced Metering
 - Billing & Customer Portal
 - Cityworks



Key Ongoing Projects / Initiatives

– Water Reuse

- Ohio Section of Water Reuse Association Established 2024



Officers

President - John Newsome,
Columbus

Vice President - Brian Coghlan,
Del-Co Water

Secretary - Patekka Bannister,
Toledo

Treasurer - Andrew Sampson,
MSD Cincinnati

Advisor to the Board – Tiffani
Kavalec, Ohio EPA

State Agencies

- Ohio EPA
- Ohio DNR
- ODH
- ODA

Utility Members

Aqua Ohio
Cincinnati MSD
Columbus
Delaware County
Del-Co Water Co.
Euclid
Heath
Johnstown
Licking Co SWCD
Marysville
Mason
Mid-Ohio W&SD
NEORS
New Albany
Ottawa County
Piqua
Sidney
Southwest Licking W&SD
Springfield
St. Henry
Sunbury
Toledo

Business Members

- American Structurepoint
- Arcadis
- Burgess & Niple
- CDM Smith
- EMH&T
- Eurofins
- Frost Brown Todd
- Hazen & Sawyer
- Intuittech
- Jacobs
- Jobs Ohio
- Kokosing Industrial, Inc
- McMahon Degulis LLP
- MS Consultants, Inc
- Stantec

Institution Members

- Cleveland Water Alliance
- Licking Co Soil & Water
- MORPC
- OHIO811
- Ohio Business Roundtable
- Ohio Environmental Council
- Ohio Kentucky Indiana (OKI)
- Ohio Water Resources Center - OSU

Coalition Members

- Amazon Web Services
- Intel

- Columbus Water Reuse Study

Water Reuse



Extends
Freshwater
Supplies



Ensures
Sustainable Use
of a Vital Natural
Resource



Reduces the Cost
of Landscape
Irrigation



Enhances Water
Security,
Sustainability,
and Resilience

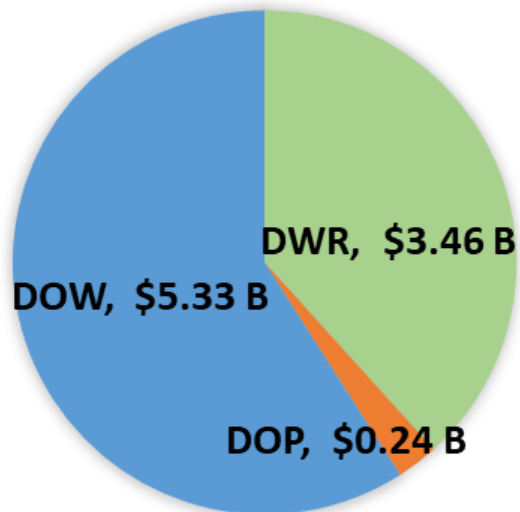


Capital Project Look-Ahead

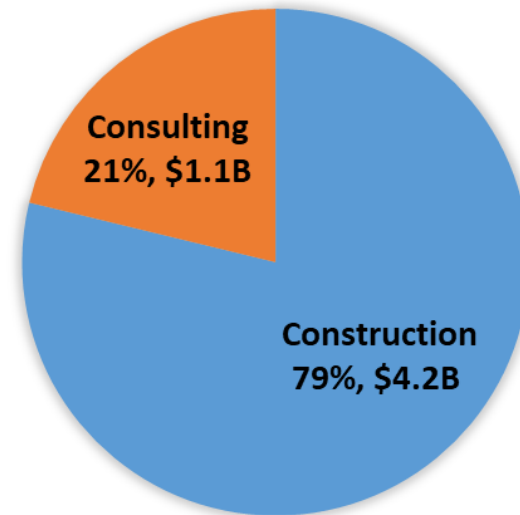


CWP & Division of Water CIP 2026-2031

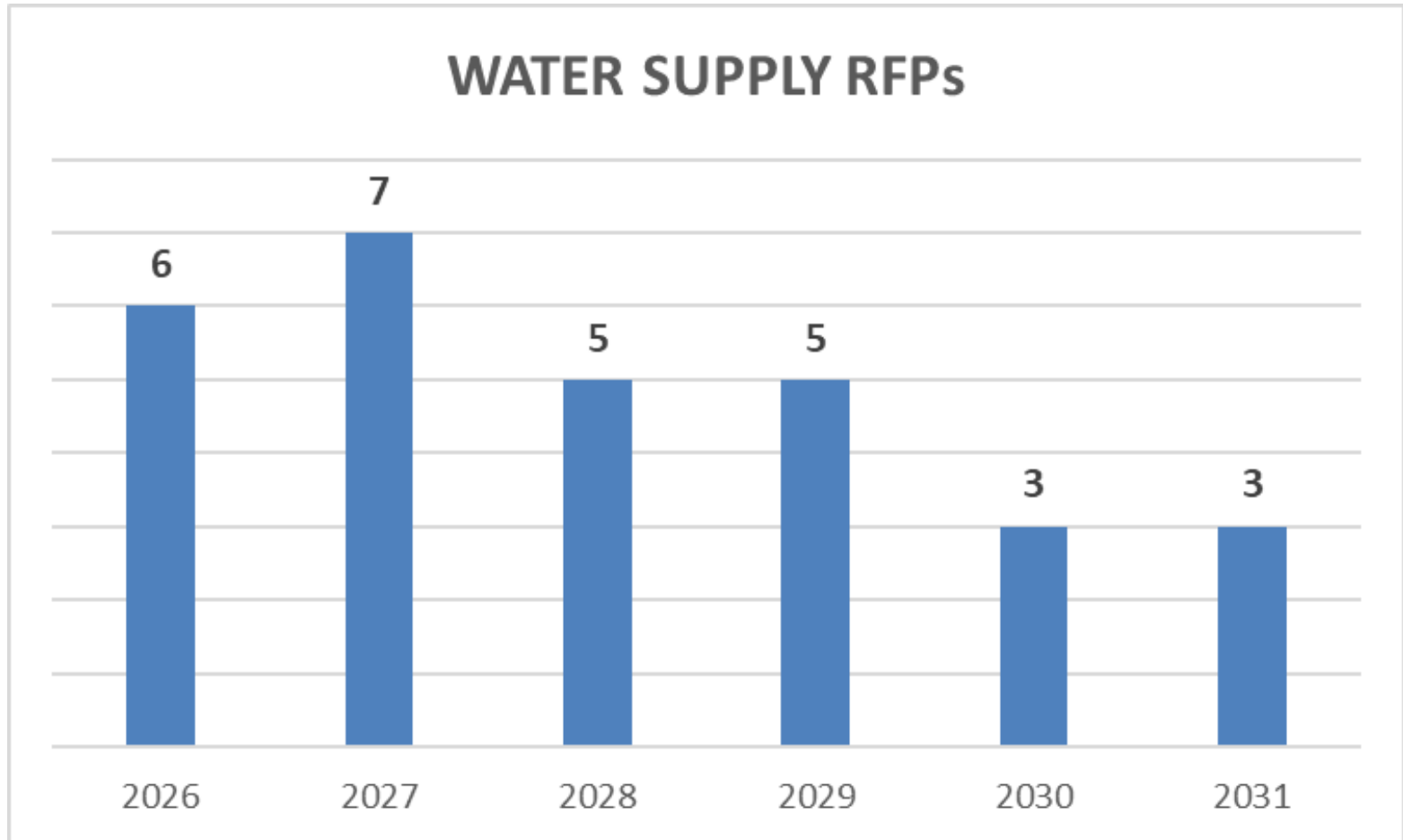
CWP CIP (TOTAL = ~\$9.03B)



DOW CIP (TOTAL = ~\$5.33B)



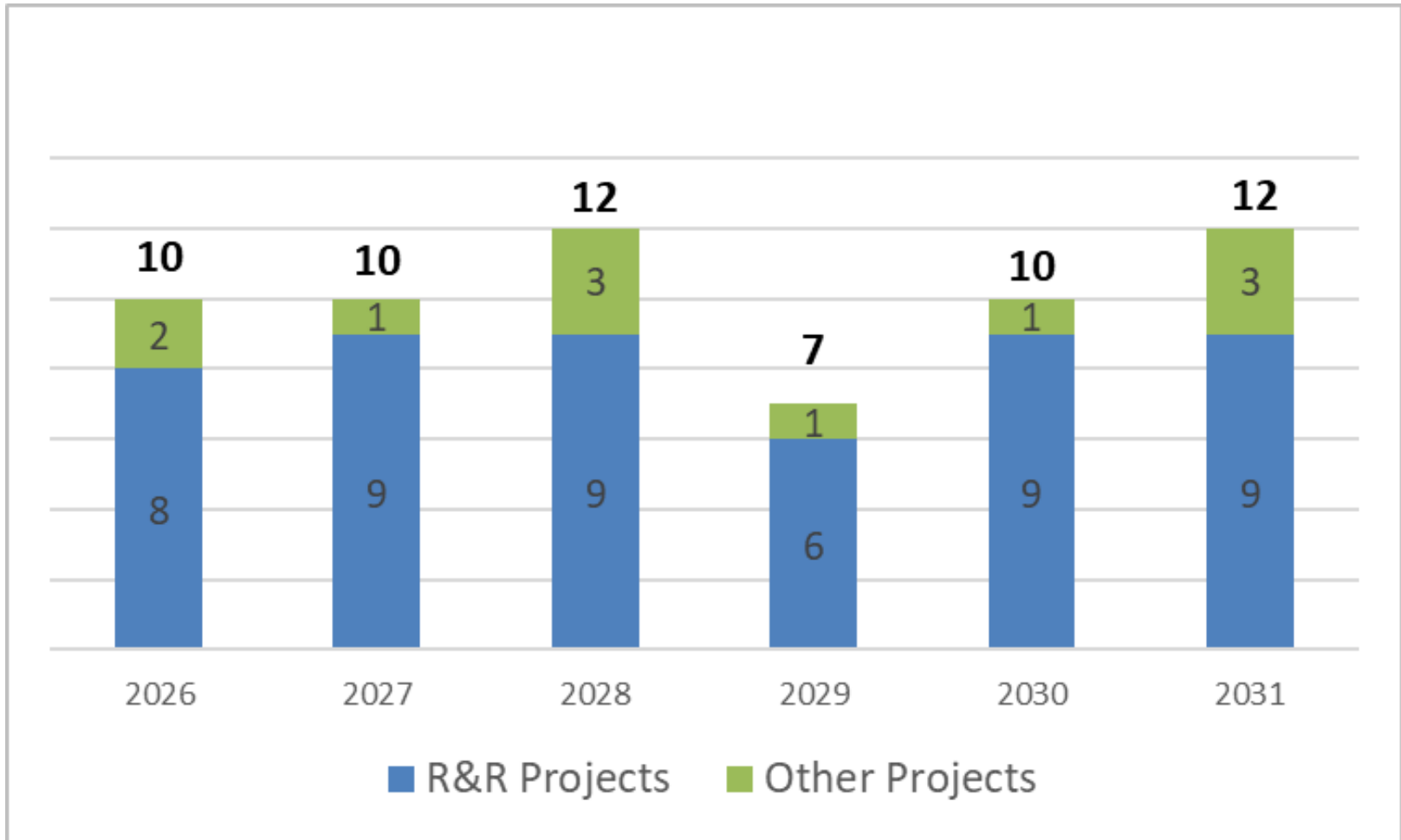
Water Supply RFPs 2026-2031



Water Supply RFPs 2026-2028

2026	2027	2028
Watershed Master Plan Update	General Engineering Services (GES) Contracts 2027A & 2027B	HCWP Polymer Feed Improvements
Professional Construction Management (PCM) - 2026	PAWP Filter Console Replacement	HCWP Filter Building Concrete Improvements
Overall Engineering Services - CT2	Large Diameter Valve Replacement	HCWP Clearwell Improvements
Electrical Systems Studies-CT2	PAWP Standby Power	O'Shaughnessy Dam 10th Independent Consultant Review
Watershed Boathouse Improvements	Griggs Dam - Spillway, Abutment and Scour Mitigation Imp's	General Architectural Services - CT5
Water Reuse Improvements Phase 1	PAWP Wellfield Development - Well #XXX	
	HCWP Sludge Line Replacement - Part 2	

Water Distribution RFPs 2026-2031



Water Distribution RFPs 2026-2028

2026	2027	2028
Rehab & Replacement Projects	Rehab & Replacement Projects	Rehab & Replacement Projects
Morse Rd 2 MG Elevated Water Storage Tank (2026 or 2027)	RFSQ for 12 R&R projects	Parsons District 2-MG Elevated Water Storage Tank
Polaris Parkway Area Improvements		CA-CI Services for 2029-2031
Lead PPM (maybe)		General Engineering Services (GES) 2029-2031

Want Additional Info?

- HRWP Project - cbuswater.com
- Upcoming RFPs & Construction Bids - <https://www.columbus.gov/Business-Development/Bids-Solicitations>
- Contact me: DJOpferman@columbus.gov

Questions?