

#onewaterstrong

One Water Capital Investment Plan Forum

Public Meeting July 10, 2025



Today's Outline

Welcome and Aspirations

Charlotte Water

- Background
- CIP Breakdown
- Opportunities

Charlotte Storm Water Services

- Background
- CIP Breakdown
- Opportunities
- Acquisition and Compliance
 - Announcements
- Questions



Objectives for Today

Share upcoming infrastructure plans

Foster a collaborative dialogue

Expand professional networks



Objectives for Today

- Share upcoming infrastructure plans
- Foster a collaborative dialogue
- Expand professional networks



Increased engagement and interest in contract opportunities



Presenters

- **Keri Cantrell** Chief Engineer for Planning and Land Development
- **Chuck Bliss** Chief Engineer for Capital Projects and Operations Support
- **Kate Labadorf** Chief Engineer for Charlotte Storm Water Services
- **Matt Gustis** Engineering & Design Division Manager, Charlotte Storm Water Services
- Logan Oliver Construction & Utilities Division Manager, Charlotte Storm Water Services
- Abby Dolan Acquisition & Compliance Manager
- **Frederica Love** Business Diversity Lead
- **Crystal Robinson** Supplier Administration



Charlotte Water



Vision

To be a leading utility, recognized for excellence, and dedicated to our people, community, region, and environment.



Mission

To consistently provide the highest quality water and wastewater services to our community.





Regional Water and Sewer System

High Quality & Resilient Utility

- Water supply from 2 Catawba River impoundments
- Potable Treatment 3 plants; 242 MGD total capacity
 - 117.4 M Gallons of Water Pumped (Daily Average FY24)
- Water Distribution ~ 4,610 miles of 2"-72" water mains
- Wastewater Collection ~4,595 miles of 8"-78" sewer mains and 74 sewer lift stations
- Regional Wastewater Treatment 6 treatment plants with permitted capacity of 123.1 MGD
 - 86.1M Gallons of Wastewater Treated (Daily Average FY24)





Fiscal Year 2024 Statistics













117.4

86.1

9,205

2,920

323,527

292,053

Million Gallons of Water Pumped on Average Each Day Million Gallons of Wastewater Treated on Average Each Day Miles of Water and Wastewater Pipes Maintained

Water Main Leak Repaired Total Active Water Service Connections Total Wastewater Service Connections

AAA Rated

\$507 Million invested in capital project improvements (FY24)

A gallon of water costs less than \$0.03

Serves a regional customer base of > 1,163,701





Charlotte Water FY26 Adopted Budget



FY 2026 Operating Budget \$651.2 M

42% Operating

- Operational Needs
 - Coverage of service contracts

58% Capital

- PAYGO to support
 CIP
- Increase in debt service

FY26- FY30 Capital Investment Program \$2.29 B

- Increases in rehabilitation & regulatory requirements
- Investment in operational efficiency
- Environmental enhancements
- Expansions due to growth & development

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FY26-30 CIP Map & Handout

Fiscal Year 2026-2030 Capital Improvement Plan Funded Projects Water & Wastewater



0 1 2 4 6

Projects and Programs

CIP ID

Anticipated Delivery Method

Point of Contact

- Anticipated Annual Budget
 - 1 5 years, individually



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WATER



Locations are approximate. Map indicates funding status only.

Construction status may differ.

Opportunity Types for Capital Projects and Programs



- **Progressive Design Build RFQs**
- **Professional Services RFQs**
- Services, Equipment and Materials **RFPs**
- Hard Bid Construction
- **AES On-Call Misc. Engineering Services**
- **Subcontractor Opportunities**



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Water and Sewer Infrastructure Installation Advertisements

Two Construction Contracts

Managed by the Design & Construction Engineering Division

Scope:

- Primarily for water/wastewater street main extensions
- Shared with other divisions for miscellaneous support, such as:
 - Distribution system improvements,
 - Collection system restrictions, and
 - Treatment plant site minor projects

Budget: ~\$15M

Sub-Contractor Opportunities

- Paving
- Sidewalk repair/replacement
- Striping
- Testing and Sampling

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New Service Installation Advertisements

Two Construction Contracts

- Managed by the Installation & Development Services
 Engineering Division
- **Scope:** For installation of new small diameter water/sewer service connections
 - Contract scopes would be similar and consist of:
 - Installation of ³/₄"-2" water service connections
 - Installation of 4"-6" sewer service connections
 - Work will take place throughout the CLTWater service area

Budget:

- Contracts are anticipated to last two years from Notice to Proceed
- Contracts are estimated to range in value from \$10M to \$15M each

Timing: Q1 and Q3 - 2026

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Rehab and Replacement Advertisements

Hard Bid

- McAlpine Creek 54" Sewer Rehabilitation Phase 2
 - **Q**3 2025
- o FY26 Water Main Replacement
 - **Q1 2026**
- FY26 Sewer Point Repair and Replacements
 - **Q**3/Q4 2025
- FY26 Water & Sewer Repairs Time & Materials (Damages/Emergencies)
 Q3 - 2025
- Managed by Field Operations Engineering Division

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Sub-Contractor Opportunities

- Sidewalk repair/replacement
- Paving
- Striping
- Testing and Sampling
- Traffic control
- Bypass pumping
- Landscaping/restoration





Rehab and Replacement Advertisements

Professional Services

- Water & Sewer Repair Inspection Services
 - **Q1 2026**
- Emergency and Routine Repair Engineering Services
 - **Q**3/Q4 2026
- Leak Detection Services
 - **Q**3/Q4 2025
- Siphon/Large Diameter Sewer Cleaning
 - Q1 2026

Managed by Field Operations Engineering Division







Belmont Pump Station and Force Main

Construction Contracts

Belmont Pump Station

- Budget: ~\$23M
- Timing: Q1 2026

Belmont Force Main

- Budget: ~\$16.6M
- Timing: Q1 2026

Belmont HDD (Under the Catawba)

- Budget: ~\$18.7M
- Timing: Q2 2026

Sub-Contractor Opportunities

- Electrical
- E&SC
- Landscaping/rest oration
- Grading



- Concrete
- Mud Engineering Services
- Paving
- Masonry
- Testing and Sampling (CMT)





Biosolids Treatment Facilities Rehabilitation

Construction Services

- **Scope:** Digested Sludge Storage Tank and Building Rehabilitation that includes:
 - Tank repairs and new cover for tank 1
 - New pumps, valves, and piping
 - New ground water dewatering system
 - Tank 2 repairs
- Budget: ~\$10M
 Timing: Q1 2026



Davidson Eastern Rocky River Sanitary Sewer Installation

- Construction Contract
- Scope: Install gravity sewer pipe along the Rocky River
 - 3,600 LF 15-inch
 - 2,400 LF 12-inch
- Budget: \$2,700,000
- Timing: Q4 2025





McDowell Creek WWTP Primary Clarifier No. 5 and Influent Pumping Station Rehab

Construction Contract

Scope:

- For Clarifier: Demolition and disposal of existing mechanism; installation of new; replacement and improvements of ancillary assets
- For IPS: Replacement of existing grit and stainlesssteel air piping; replacement of slide gate seals, actuators, and stems.
- ►Budget: \$2.0-2.5M

Timing: Q3 - 2025





Standby Power and Instrumentation at Tank Sites

Construction Contract

- Scope: Installation of new natural gas or propane generators and misc. electrical improvements at eight (8) tank sites.
- **Budget:** \$1.0M
- **Timing:** Q2 2026





Franklin WTP Service Water Improvements

Construction Contract

- Scope: Installation of Ownerprocured pumps and VFDs; modifications to existing service water piping; installation of flow meters.
- ▶ **Budget:** ~\$1.5M
- **Timing:** Q2 2026





Elevated Water Storage Tank Improvements

Professional Engineering Services

- Scope: Design and construction administration for 5 separate elevated water storage tank rehab projects.
 - Rehab includes recoating interior and exterior of tanks, replacement of existing ladder systems, and misc. piping repairs.
- Budget: ~\$750k
 RFQ Timing: Q3/Q4 2025





Miscellaneous Treatment Plant Rehabilitation Construction Projects (15S01 & 15W08)



- Typically small, quick rehab and emergency projects at all water treatment and wastewater plants
- Historically, >\$10,000 to \$10 M

Subcontracting Opportunities

- Electrical
- HVAC
- Plumbing
- Masonry
- Roofing
- Site Improvements

Contact

• CLT Water Chuck Cowherd, 704-578-3007

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Commodities ITBs

Franklin WTP Sedimentation Basin Improvements

- **Scope:** Rectangular butterfly valves
- **Timing:** Q4 2025
- Budget: \$1.5-2.0M

Water Treatment Polymers

- Scope: Dewatering polymers
- **Timing:** Q4 2025
- Budget: \$75k

Franklin WTP Service Water Pumps and VFDs

- Scope: Pumps and VFDs
- Timing: Q4 2025



Charlotte Storm Water Services



MISSION

To serve the City of Charlotte by improving surface waters and conveying rainwater safely through well-maintained storm drainage systems



What We Do



Protect Surface Waters (Surface Water Quality)







Ensure Adequate Public Drainage Infrastructure (Storm Drainage)

FY2024 Quick Stats

Accomplishments of our 200+ team members include:



900+ projects managed



275+ projects completed



\$83M+ invested in capital improvement projects



34,850+ feet of pipe installed



22,000+ feet of stream improvement in progress



AAA

Financial Efficiency

by Moody's Investors Service and Standard & Poor's Financial Services



13,220+ feet of pipe rehabilitated



70¢

per dollar collected invested in capital improvement projects



Capital Investment Plan



FY2026 – FY2030 CIP Budget = \$425M

Improve Drainage for Storm Water

- Major Storm Drainage projects = \$274M
- Minor Storm Drainage Projects = \$126M

Enhance Storm Water Mitigation Programs

• Stream Restoration & Pollution Control projects =\$14M

Mitigate Impacts to Stream and Wetlands

- Stream Mitigation Bank = \$5M
- Post Construction Control Program = \$6M





Charlotte Storm Water Services CIP Breakdown



Surface Water Quality Projects

- Address eroding and incised channels
- Address deteriorated dams/spillways
- Identify areas to enhance water quality





Surface Water Quality

- Stream Restoration
- Wetland Enhancement
- Stormwater Control Measures











Storm Drainage Projects

Address aging, failing infrastructure
 Reduce flooding







Storm Drainage Replacing/Installing New Infrastructure





Storm Drainage - Rehabilitation

Cured in Place Pipe





Spin casting



Polyurethane Injection





Minor Projects

- Targeted storm drainage improvements
- In-house design or engineering consultant design
- Unspecified contracts are bid and then minor projects assigned to the contract
- Start 200 250 a year
- <\$500K construction cost</p>




Major Projects

- Comprehensive improvements
- Design/Build (Surface Water Quality)
- Design/Bid/Build projects (Storm Drainage and Surface Water Quality)
 - Engineering consultant design
 - Individual bid projects
- Start 5 7 a year (Storm Drainage and Surface Water Quality)
- \$500K \$20M construction cost





Project Delivery Methods (Construction)

	#Projects per Contract	Contract Duration	Contract Cost	Project Cost
Design/Build (Surface Water Quality Projects)	1	4 - 8 years	\$5M - \$10M	\$5M - \$10M
Design/Bid/Build (Major Storm Drainage and Surface Water Quality Projects)	1	6 months - 3 years	\$500K - \$20M	\$500K - \$20M
Collective Packages (Minor and Major Storm Drainage)	2 - 6	12 months	\$1M - \$3M	\$200K - \$750K
Unspecified – Formal (Minor Storm Drainage)	20 - 30	24 months	\$4M - \$6M	\$20K - \$500K
Unspecified – Informal (Minor Storm Drainage)	10 - 15	12 months	\$150K - \$200K	\$1K - \$20K





Design/Bid/Build Projects

- Lowest responsible, responsive bidder
- Projects can address flood mitigation, aging infrastructure, etc.
- Can include many different types and sizes of projects, vary greatly
- Majority reinforced concrete pipe
- Large non-standard drainage structures and endwalls
- Active shoring
- Surface Water Quality stream work/structures/grading
- Special Provisions related to Storm Drainage Improvement Projects



Collectives Packages: Same as Design/Bid/Build Projects except that projects are grouped and bid together in one construction contract.





Unspecified Contracts - Formal

- Lowest responsible, responsive bidder
- Bid on typical unit items and quantities
- Projects assigned to contract after bid







- Grading
- Seeding and Mulching
- Erosion Control Matting
- Pipe Collars
- Water/Sewer
- Concrete Sidewalk/Curb
- Foundation Protection



- Small-Medium RCP
- Drainage Structures
- Endwalls and Footers
- Joint Repair/Injections
- Trench Excavation
- Backfilling/Bedding Material



Typical Construction Challenges



Tight Spaces (between structures, trees, walls, etc)



Conveyance/Pump Around Operations



Private Utilities (Gas/Power/Communications, etc)





Subcontracting Opportunities









- Fencing
- Foundation Protection
- CIPP
- Pipe Cleaning
- Joint Injection
- Asphalt Paving
- Concrete Flatwork
- Masonry
- Hauling
- Traffic Control/Flaggers
- Clearing/Grubbing/Tree Removal



Charlotte Storm Water Services Opportunities



Handout - CIP Map and Project List

- Map of Project Locations
- Anticipated Consultant and Contract Opportunities
- List of Projects





Active and Future Storm Water Capital Improvement Projects

Professional Design Services

	Consultants/Contractor	Туре	Contract Length	Estimated Advertisement
Major Projects	Multiple Selected	RFQ	5 - 7 Years	FY26, FY28
Minor Projects	Multiple Selected	RFQ	3 - 5 Years	FY26
Surface Water Quality Projects	Potentially Multiple Selected	RFQ	5 - 7 Years	FY27
Owner's Representative - Design/Build	Typically, One Selected	RFQ	6 Years	FY27
Design/Build - Surface Water Quality	Potentially Multiple Selected	RFQ	4 - 8 Years	FY27
Structural Services - Minors	Potentially Multiple Selected	RFQ	3 - 5 Years	FY29
Utility Locate Services - Minors	Potentially Multiple Selected	RFQ	3 - 5 Years	FY29

RFQ = Request for Qualifications



Professional and Contract Services

	Consultants/Contractors	Туре	Contract Length	Estimated Advertisement
On-Call Geotechnical and Construction Material Testing Services	Potentially Multiple Selected	RFQ	3 - 5 Years	FY28
Utility Coordination Services	Potentially Multiple Selected	RFQ	3 - 5 Years	FY27
On-Call Construction Administration, Inspection, and Management Services	Potentially Multiple Selected	RFQ	3 - 5 Years	FY29
Site Preparation for Pre-Construction Utility Relocations	Potentially Multiple Selected	RFP	3 - 5 Years	FY27
Channel Cleaning Services	Typically, One Selected	RFP	3 - 5 Years	FY26
On-Call SCM and Vegetation Management	Potentially Multiple Selected	RFQ	5 Years	FY26

RFQ = Request for Qualifications

RFP = Request for Proposal



Construction Services

	# of Contracts Advertised /Year	Estimated Contract Value	Contract Length
Design/Bid/Build (Major Projects)	5 - 10	\$500K - \$20M	6 months – 3 years
Collective Packages	3 - 5	\$1M - \$3M	12 months
Formal – Unspecified	5 - 7	\$4M - \$6M	24 months
Formal – Unspecified Maintenance and Repair	2 - 3	\$750K - \$2M	18 months
Formal – Unspecified Grouting and Lining	1 - 2	\$1M - \$2M	18 months
Informal - Unspecified	1 - 2	\$150K - \$200K	12 months







Procurement Business Diversity Supplier Administration



 Helpful links to: opportunities across the city, the Procurement Portal, vendor registration, and CBI's website



Information Security Agreements

- Form is available on Contracting Opportunities site
- Agreements expire after 5 years

Resources

Market Ma

Agreement (PDF, 107KB)

Charlotte Water Construction

Projects

Design Manual

(Specifications)

SEPAX001-POL-Badge-and-Access-Control.pdf (PDF, 69KB)



INFORMATION SECURITY AGREEMENT

I understand certain water & sewer infrastructure data, operational details and other utility information records (as defined in N.C. General Statute Chapter 132, City of Charlotte Restricted Data Policy and Charlotte Water Information Security Procedure) qualify as security-sensitive or restricted information, and their release is therefore carefully managed and potentially exempt from disclosure requirements. As an individual and/or as an appointed representative of the company/agency listed below, I agree the information provided to me will only be used for the legitimate business or community function for which the information was requested and provided.

I acknowledge the conditional release of sensitive/restricted water & sewer data, maps or other records does not in itself create any rights to operate, adjust, modify or otherwise interfere with the operation of any Charlotte Water or other City facility. Any released data that provides location of underground facilities will never be used as a substitute for contacting a one-call center, such as 811, prior to excavation activities.

I will neither create nor publish information or maps using sensitive/restricted water & sewer data. No part of sensitive/restricted information is to be copied or distributed outside my agency without the express written consent of Charlotte Water. Unless specifically authorized to do so in writing by Charlotte Water's Contracts & Procurement Team or other authorized staff, I and the agency I represent will not redistribute any sensitive/restricted project information to other parties (including subcontractors or clients) and any requests for sensitive/restricted information from parties outside my agency will be directed to Charlotte Water.

Charlotte Water geographic data and other records are provided for general information purposes only. While Charlotte Water makes every effort to confirm the accuracy of information, it does not warrant nor guarantee information provided is accurate, current or complete. Charlotte Water assumes no responsibility for the consequences of inappropriate uses or misinterpretations of released data. I acknowledge that failure to follow this Agreement may result in actions including but not limited to forfeiture of access to sensitive/restricted information, contract termination, limits upon future work and payment of damages, if any. I will destroy this information when its stated use for the intended purpose has expired. I will safeguard the information against any use inconsistent with this Agreement and against any further disclosure or dissemination. This agreement expires five years from the date listed below.

PRINTED NAME:	DATE:
COMPANY/AGENCY NAME:	PHONE:
MAILING ADDRESS:	
CITY, STATE, ZIP:	
EMAIL ADDRESS:	





EarlyBird





- Filter by Charlotte Storm Water Services or Charlotte Water
- "In Development" = upcoming opportunities, "Active" = advertised
- Click "Requirements" to learn more information

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Procurement Portal (Bonfire/Euna)

Procurement Portal City of Charlotte			CITY OF CHARLOTTE.
Department: All			
Open Public Opportunities Past Public Opportunities			
			Search
Status 🔶 Ref. # 🔶 Project	Department	Close Date	Days Left 🝦 Action
OPEN FY26-ITBCon-02 Regional Solids Conveyance Phase 1A – Force Mains (Package 1) Charlotte Water	Jul 9th 2025, 10:00 AM EDT	7 View Opportunity
OPEN FY26-RFQ-01 Mallard Creek Water Resource Recovery Facility Reclaimed Water System Improvements Project	r Charlotte Water	Jul 10th 2025, 2:00 PM EDT	8 View Opportunity
OPEN FY26-ITBCon-05 832 Dobson Storm Drainage Improvement Project	Charlotte Water	Jul 10th 2025, 2:00 PM EDT	8 View Opportunity
OPEN FY26-ITBCon-04 FY26 Sanitary Sewer Rehabilitation	Charlotte Water	Jul 22nd 2025, 10:00 AM EDT	20 View Opportunity



- Click on "Department" to sort
- Storm Water's opportunities are listed under Charlotte Water
- Register to view opportunities.

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Charlotte Business INClusion (CBI) Program

What is the CBI Program?

- The CBI Program is the City of Charlotte's citywide diversity and inclusion program that seeks to enhance Minority-Owned, Women-Owned, and Small Business Enterprises (M/W/SBEs) participation on city contracts.
- City departments review their projects to determine subcontracting opportunities for that project and will either set or negotiate M/W/SBE subcontracting goal(s) on a contract-by-contract basis.



What is a City of Charlotte M/W/SBE?

A City of Charlotte M/W/SBE is:

- Minority-Owned (MBE) and Women-Owned (WBE) are certified by the North Carolina Historically Underutilized Business (HUB) office, then registers with the CBI Office to become a City of Charlotte M/WBE.
 - M/WBE certification relevant market is all 100 NC counties + York County, SC.
- Small Business Enterprises (SBE) are certified by the CBI Office and located within the 13 county Charlotte Combined Statistical Area (CSA):
 - North Carolina: Anson, Cabarrus, Cleveland, Gaston, Iredell, Lincoln, Mecklenburg, Rowan, Stanley, and Union;
 - South Carolina: Chester, Lancaster, and York





Where to Search for City of Charlotte MWSBEs

To find City of Charlotte MWSBEs, search the B2GNow aka INClusionCLT Supplier Diversity Management System, the City's Certified Directory Contract Compliance system at:

https://charlotte.diversitycompliance.com

Click on "Search Certified Directory"





CBI Contractor Development Program

To assist M/W/SBE contractors with their contracting capacity and business growth the CBI Office has teamed up with Merriwether & Williams and The Wonder Group to offer the CONTRACTOR DEVELOPMENT PROGRAM.

Sponsored By: CHARLOTTE CHARLOTTE Program Administered By: Merriwether & Williams ... Of Like Minds A HUB International Company







CBI Contractor Development Program

FOUR PILLARS OF THEPROGRAM:

- Assessment & Technical Assistance
- Bond Readiness Assistance
- Education & Training
- Program Partners

ALL STARTS WITH:

- Registration which can take less than 5 minutes.
- Assigned a Contract Development Manager (CDM).
- Let your CDM know that you are bidding on a project and will need assistance.
- M/W/SBE firms may get contract-based financing support and be eligible for low-interest contractbased financing on City of Charlotte projects via the Carolinas Small Business Fund.

CITY OF CHARLOTTE CONTRACTOR DEVELOPMENT PROGRAM THE FOUR PILLARS OF CONTRACTOR DEVELOPMENT ASSESSMENT The Contractor & TECHNICAL Development EDUCATION CONTRACT ASSISTANCE Program PRIME **TRAINING &** FINANCING CONTRACTOR CONTRACT assists & PROJECT PARTNERSHIPS SUPPORT ASSISTANCE contractors with their contracting capacity and business growth. Assessment & Technical Assistance **Bond Readiness Education & Training** Enrollment in our Contractor Assistance Development Program Group Classes on public construction best practices led by Personal Contractor Assist with obtaining or Development Manager industry experts. increasing bonding capacity to provide a professional Creation of individualized Bond Collateral Support and assessment of your current Contractor Profile to assist with contract finance assistance capacity and growth needs. business marketing. through a partnership with One-on-one consultation to Carolina Small Business develop a work plan aligned Development Fund. **Program Partners** with your business needs and Contract review, project goals. assessment, and field support. Strategic alliances with Program Facilitated referrals to Program Prime contractors including Assistance with project risk Partners and resources. matchmaking and referrals. identification and mitigation. Referrals to specific project Networking with public agency Accounting cost subsidy for CPAopportunities. staff and peer contractors. prepared financial statements.





Supplier Administration



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