Panelists

- Dr Keri Cantrell, PhD – Chief Engineer Planning and Land Development
- Carl Wilson - Chief Engineer Capital Projects and Operational Support
- Bhavana Swayampakala – Division Manager Planning
- Chuck Bliss – Division Manager Capital Projects Management
- Jeff Davis – Division Manager Operations Support
- Abby Dolan – Procurement Manager
- Cam Coley - Communications
Today’s Outline

• Charlotte Water by the Numbers
• CIP Development and Goals
• FY22-FY26 CIP Breakdown
• Upcoming Opportunities to Work with Charlotte Water
• Questions
Charlotte Water by the Numbers

- 2 Drinking Water Supply Intakes
- 2 Raw Water Reservoirs
- 3 Drinking Water Treatment Plants
- 4 Field Operations Facilities
- 6 Wastewater Treatment Plants (Owned & Operated)
- Governments Served (Mecklenburg County, Town of Davidson, Town of Cornelius, Town of Huntersville, City of Charlotte, Town of Mint-Hill, Town of Matthews, Town of Pineville)
- 17 Staffed Facilities
- 83 Wastewater Lift Stations
- 1019 Full-time Positions
Water System Facts

- 3 WTP
- 174 MGD Design Capacity
- 110 MGD Average Pumped
- 4 Pressure zones
- 17 BPS and EST/Storage
- 4,482 miles of Water Mains
  - 1 to 120” inch
- 304,029 Active Water Connections
- 17,925 hydrants Maintained
Sanitary Sewer Facts

- 5 WWTPs
- 1 Packaged Plant
- 123 MGD of Wastewater Treatment Capacity
- 89 MGD Average Treatment
- 4,475 miles of sewer pipe
  - 1-½ to 96 inch
- 78 sanitary sewer pump stations
- 276,498 Active Wastewater Connections
#ONEWATERSTRONG

CHARLOTTE WATER

MISSION
Charlotte Water provides reliable, high-quality services to our community through valued employees, financial stability, and environmental stewardship

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

Throughout 2020, Charlotte Water suffered no loss of service despite a global pandemic changing our way of business and threatening the health of our front-line employees.

INFRASTRUCTURE FOR THE FUTURE
support growth, mobility, accessibility and reliability

SUSTAINABILITY
Regulatory compliance to protect residents and waterways

EQUITY & INCLUSION
provide services equitably for the benefit of all
CIP Goals

- Identify the right projects
- Identify long term project funding needs
- Maintain consistent annual capital funding level

- Balancing the goals against supporting municipal vision plans, economic development and regulatory requirements
How Do We Categorize Projects and Programs?

• CIP Categories:
  • Regulatory Requirements
  • Capacity for Growth
  • Rehabilitation and Replacement
  • Commitment to Public Projects and Utility Operations

• CIP Prioritization Criteria:
  • Compliance
  • Capacity Enhancement
  • Reliable Infrastructure
  • Operational Efficiency
  • Customer Level of Service
  • Environmental Enhancements
Charlotte Water
Capital Spending by Fiscal Year

FY 2021 Budget = $332,296,584
Capital Program History ($M)

FY09-13
FY10-14
FY11-15
FY12-16
FY13-17
FY14-18
FY15-19
FY16-20
FY17-21
FY18-22
FY19-23
FY20-24
FY21-25
FY22-26

- Water
- Wastewater
- Utility Support

0 500 1000 1500 2000 2500

CHARLOTTE WATER
FY22-26 CIP Breakdown

- CIP Total: $2.38B
- Capacity for Growth: $1.33B
- Regulatory Requirements: $221M
- Commitments to Public Projects & Utility Operations: $187M
- Rehab & Replacement: $545M
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<th>Water</th>
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<th>Utility Support</th>
<th>Totals</th>
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## FY22 CIP Breakdown

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## FY22-26 CIP HANDOUT

**FY22-26 Proposed CIP**

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<th>CIP ID</th>
<th>Name</th>
<th>Delivery Method</th>
<th>Project Manager</th>
<th>Project Status</th>
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Opportunities within Treatment Plant Rehab and Operations Support (ROSG)
Sugar & Irwin WWTP UV Replacement (17S09) Estimate: $7M, 3rd Quarter 2021

Replacement of UV Disinfection Systems at Sugar and Irwin Plants. Sugar Bids first

Subcontracting Opportunities:
• Demolition
• Concrete
• Hauling
• Electrical
• Excavation
• Site Preparation

Contacts:
HDR- Brian Thorsvold
704-338-6700
CLTWater
Tony Martin
704-336-1053
McAlpine Creek WWTP Biosolids Improvements (15S07 & 17S08)
Estimate: $17M – 3rd Quarter 2022

Replacement of Process Mechanical Systems.

Subcontracting Opportunities:
- Demolition
- Concrete
- Hauling
- Electrical
- HVAC

Contacts:
HDR- Brian Thorsvold
704-338-6700
CLTWater
Kit Eller
704-336-1031
Roofing Replacement Program (18S13 & 18W25)
Estimate: $1.5M  1st Quarter 2022

Roofing Replacements at multiple treatment facilities

Subcontracting Opportunities:
• Demolition
• Plumbing
• Masonry

Contact:
CLTWater
Tony Martin
704-336-1053
Zone 2 Vacuum Receiving Station (17S01)  
Estimate: $3M, 1st Quarter 2022

New Debris Sorting and Hauling Station

Subcontracting Opportunities:
• Demolition
• Concrete
• Hauling
• Electrical
• Excavation
• Site Preparation

Contact:
CLTWater
Brian Pate 704-336-1067
Ashe Plantation WWTP – New Plant
Estimate: $4M, 2nd Quarter 2022

New package wastewater treatment plant, demo of existing plant.

Subcontracting Opportunities:
- Demolition
- Concrete
- Hauling
- Electrical
- Excavation
- Site Preparation

Contact:
CLTWater
Chuck Cowherd 704-336-1023
McAlpine Creek WWTP Low Lift PS and Filter Rehab (15S01)
Estimate: $2M – 3rd Quarter 2021

Replacement of Process Mechanical Systems.

Subcontracting Opportunities:
- Demolition
- Concrete
- Hauling
- Electrical
- HVAC

Contacts:
HDR- Brian Thorsvold
704-338-6700
CLTWater
Brian Pate
704-336-1067
Miscellaneous Treatment Plant Rehabilitation Projects (15S01 & 15W01)

Small, quick rehab and emergency projects at all water and wastewater plants

Subcontracting Opportunities:
• Electrical
• HVAC
• Plumbing
• Masonry
• Roofing
• Site Improvements
• etc.

Contact:
CLTWater
Jeff Davis 704-336-1026
ROSQ Design Work

Primarily by on call

Two RFQ's:
- Can Lift Phase III
- McAlpine Preliminary and Primary Treatment Rehab

Next On Call-July 1 2023, RFQ Fall 2022

Contact:
CLTWater
Jeff Davis 704-336-1026
Project Management Group Opportunities

PIPELINE AND PLANT TYPE PROJECTS
Project Procurement Types

- CMAR and PDB Team Sub-Contractor Opportunities
- Progressive Design Build RFQs
- Hard Bid Construction
- Professional Services RFQs
CMAR and PDB Team Sub-Contractor Opportunities

**Construction Manager at Risk**
- Field Operations Zone 4 – CMAR - Rodgers Builders – 33 bid packages – Bid Openings July 29th, 2021
- Mallard Creek WWTP Ph 1 – CMAR - PC/Leeper – Summer 2022

**Progressive Design Build Teams**
- Mt Holly PS & Stowe IPS/HW – PDB Haskell
  - Work Package 3 – Fall 2021
  - Work Package 4 – Winter 2022
- Stowe RWRRF – PDB – Crowder/Garney
  - Work Package 1 – Spring 2022
  - Work Package 2 – Summer 2022
  - Work Package 3 – Winter 2023
- Stowe RWRRF Web Page
  - http://stoweregionalwrrf.com/

All CMAR and PDB Sub-Contractor Opportunities will be posted on CLT Water Web Page but directly contact GC
Progressive Design Build RFQs

- Franklin WTP Residuals Improvements – Fall 2021
- Upper Little Sugar Creek Interceptor – Fall 2021
- Belmont PS and FM – Fall 2021
- McAlpine WWTP Biosolids THP – Spring 2022
Hard Bid Construction Advertisements

- Stowe RWRRF North Access Road and Bridge – Fall 2021
- McMullen Creek Basin Rehab – Spring 2022
- Clarke’s Creek PS Replacement – Fall 2021
- Briar and Paw Creek Interceptors Rehab – Fall 2021
- Franklin WTP Imps – Spring 2022
- Hidden Valley Trunk Sewer Replacement - Summer 2021
- McAlpine Biosolids EQ Tanks and Pumping – Fall 2021
- Stowe Solids Conveyance Facilities – Summer 2022
- Elevated Storage Tanks – Spring 2022
- Dixie River Rd WM – Winter 2022
- Beaver Dam LS Imps – Spring 2022
- Stream Bank and Sewer Repairs – Summer 2021
- Paving and Misc. Repairs – Fall 2021
Professional Services RFQs

- Tank Inspections, Rehab and Repair – Summer 2021
- Lee Dukes WTP Imps – Fall 2021
- Franklin WTP Imps – Fall 2021
- Stream Bank and Sewer Imps – Fall 2021
QUESTIONS?

Bhavana Swayampakala, PE / Division Manager - Planning
P: 704-336-4976 / bhavana.swayampakala@charlottenc.gov

Jeff Davis, PE / Division Manager - Treatment Plant Rehab and Operations Support
P: 704-942-6943 / jeff.davis@charlottenc.gov

Chuck Bliss, PE / Division Manager - Project Management
P: 704-336-1012 / chuck.bliss@charlottenc.gov

Abby Dolan / Procurement Manager
P: 704-336-1029 / abby.dolan@charlottenc.gov

Frederica Love / Business Diversity Lead
P: 704-336-1051 / frederica.love@charlottenc.gov