

Metropolitan Sewerage District

Update for Buncombe County Board of Commissioners August 2, 2022







MSD HISTORY

- MSD was formed in 1962 by State Statute as a Special District with the sole purpose to collect and treat wastewater and to eliminate the direct discharges to the surrounding rivers and streams.
- Between 1962 and 1989 MSD built over 100 miles of large interceptor lines and a 25 MGD treatment plant. The Treatment Plant was later upgraded to a 40 MGD Plant in the mid 1990's.
- In 1990 all the local governments and special districts gave all of their collection lines (720 miles) to MSD for ownership and maintenance in agreements we call "Sewer Consolidation."





Consolidation of Fifteen Separate Sewer Systems in 1990

Five Municipalities

- City of Asheville
- Town of Biltmore Forest
- Town of Black Mountain
- Town of Montreat
- Town Of Weaverville



Over 170,000 people

NCOMBE COUNTY

Ten Special Districts

- Beaverdam Water and Sewer District
- Busbee Sanitary Sewer District
- Caney Valley Sanitary Sewer District
- Crescent Hill Sanitary Sewer District
- Enka-Candler Water and Sewer District
- Fairview Sanitary Sewer District
- Venable Sanitary District
- Skyland Sanitary Sewer District
- Swannanoa Water and Sewer District
- Woodfin Sanitary Water and Sewer District

Cane Creek WSD Consolidation July, 2020

Print Date: 10/9/2019

Legend

Buncombe County

Henderson County

Metropolitan Sewe

CCWSD Service Av

CCWSD Service Area = 49 sq. mi. MSD Service Area = 215 sq. mi. CANE CREEK WATER AND SEWER DISTRICT BOUNDARIES

METROPOLITAN SEWERAGE DISTRICT AND



Current MSD Board of Directors

Matt Ashley, Jr.	Montreat	Nathan Pennington	Buncombe County
Jackie W. Bryson	Woodfin SWSD	Robert Pressley	Buncombe County
Sheila Franklin	Henderson County	Doug Dearth	Weaverville
Glenn Kelly	Biltmore Forest	Jerry Vehaun	Woodfin
William Lapsley	Henderson County	Robert Watts	Black Mountain
Esther Manheimer	Asheville	Gwen Wisler	Asheville
Chris Pelly	Asheville	Al Whitesides	Buncombe County

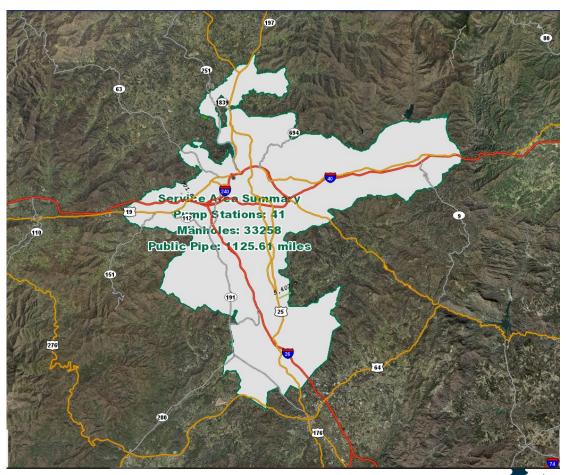




MSD Collection System Overview

- MSD serves ~201,000 people via 57,000 customer accounts
- Service District spans 263 square miles
- MSD currently owns and maintains:
 - 1,133 miles of sewer lines
 - 33,581 manholes
 - 40 pump stations









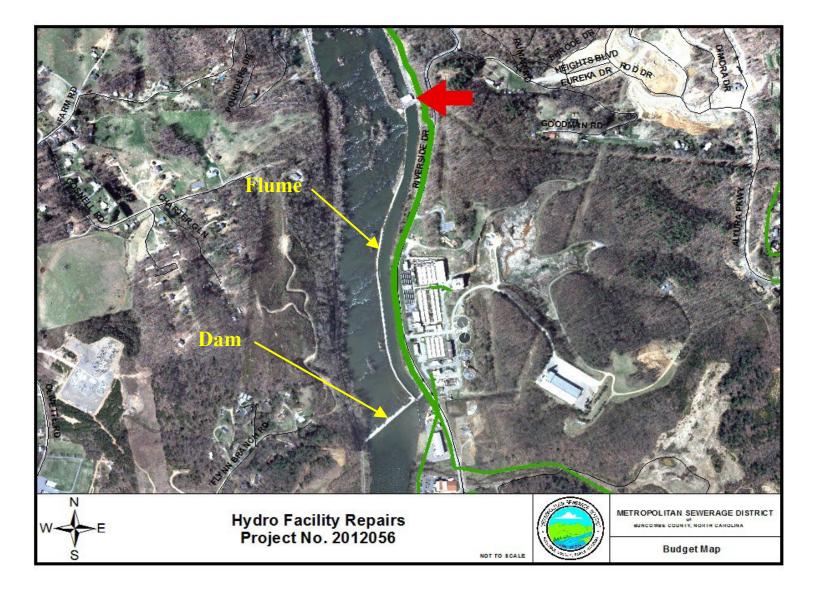


• Rated at 40 MGD

• Currently at 23.9 MGD













Current Hydroelectric Production



Can Generate 2880 KW

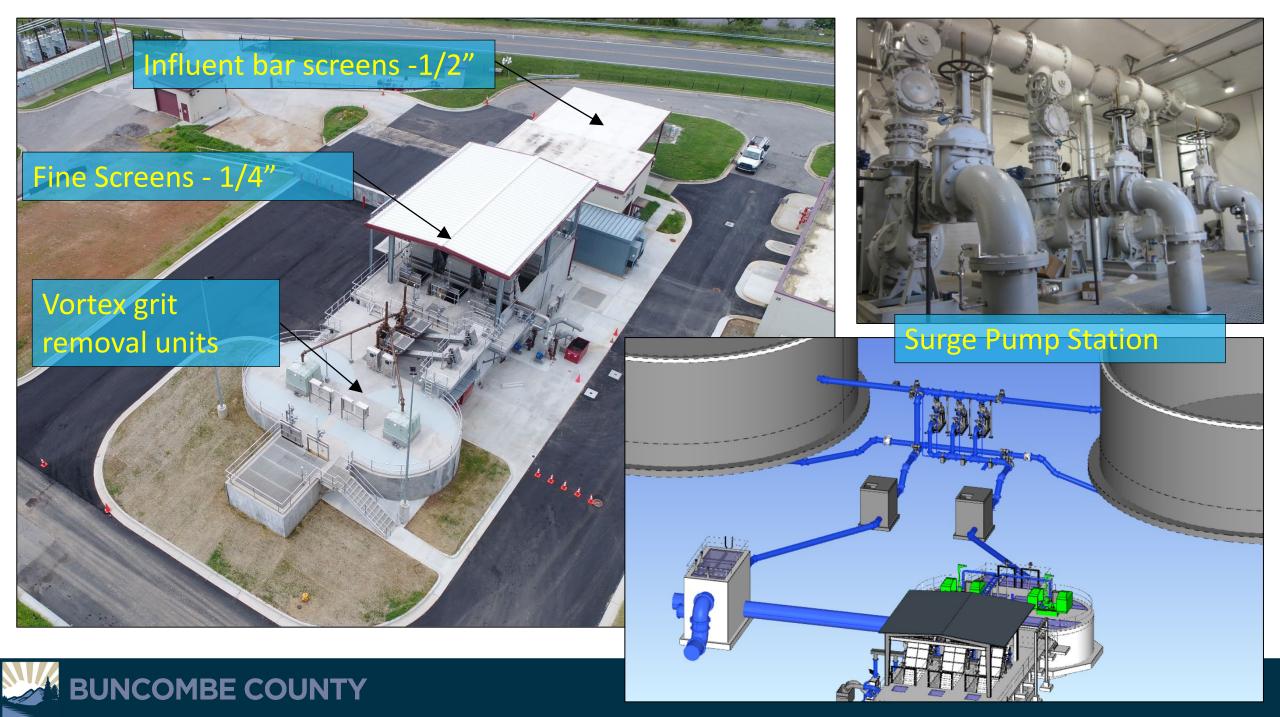
BUNCOMBE COUNTY

• FY 2021 Avoided Power Cost \$483,824

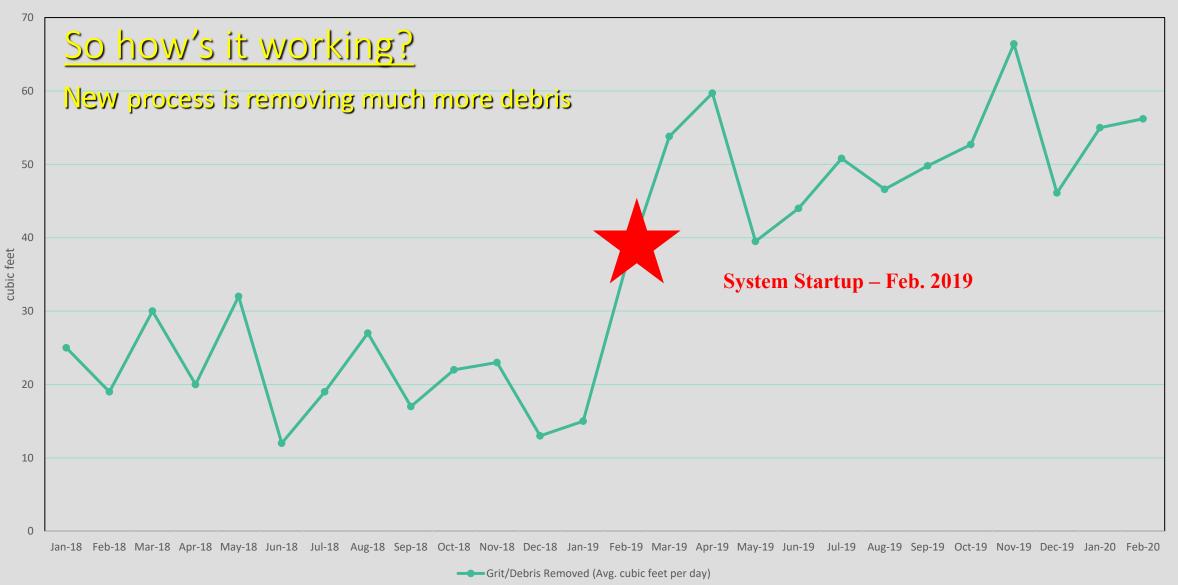








Headworks Grit/Debris Removal per day

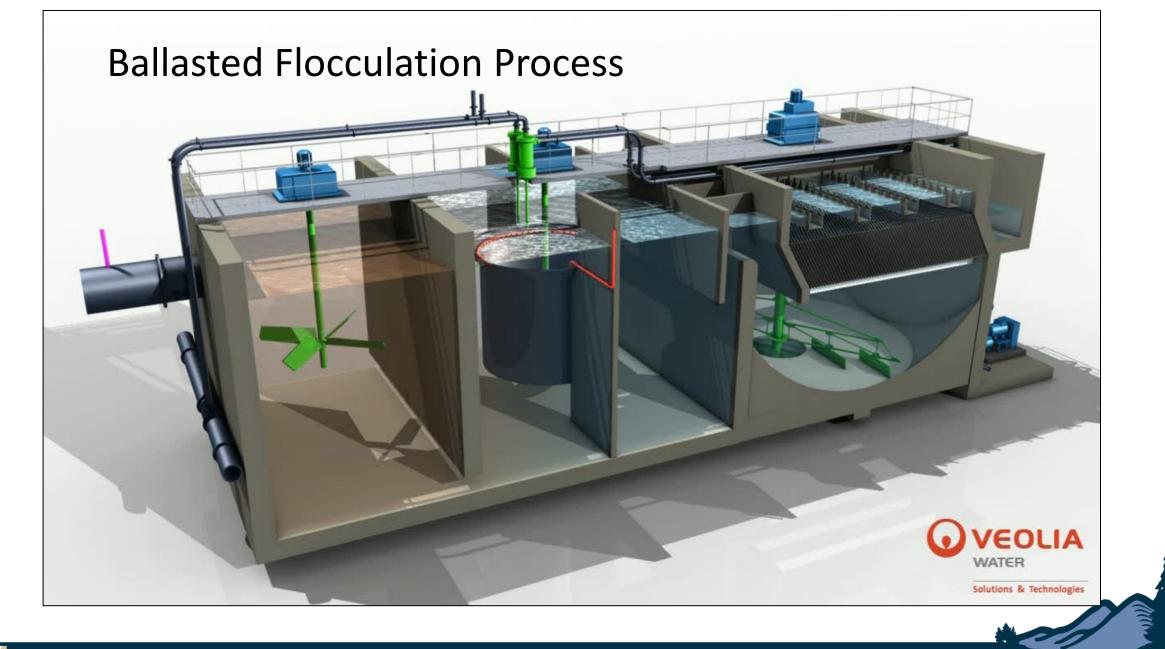






High Rate Primary Clarification New technology • Will significantly • improve treatment Under Construction • Total Project Cost \$17 Million





BUNCOMBE COUNTY









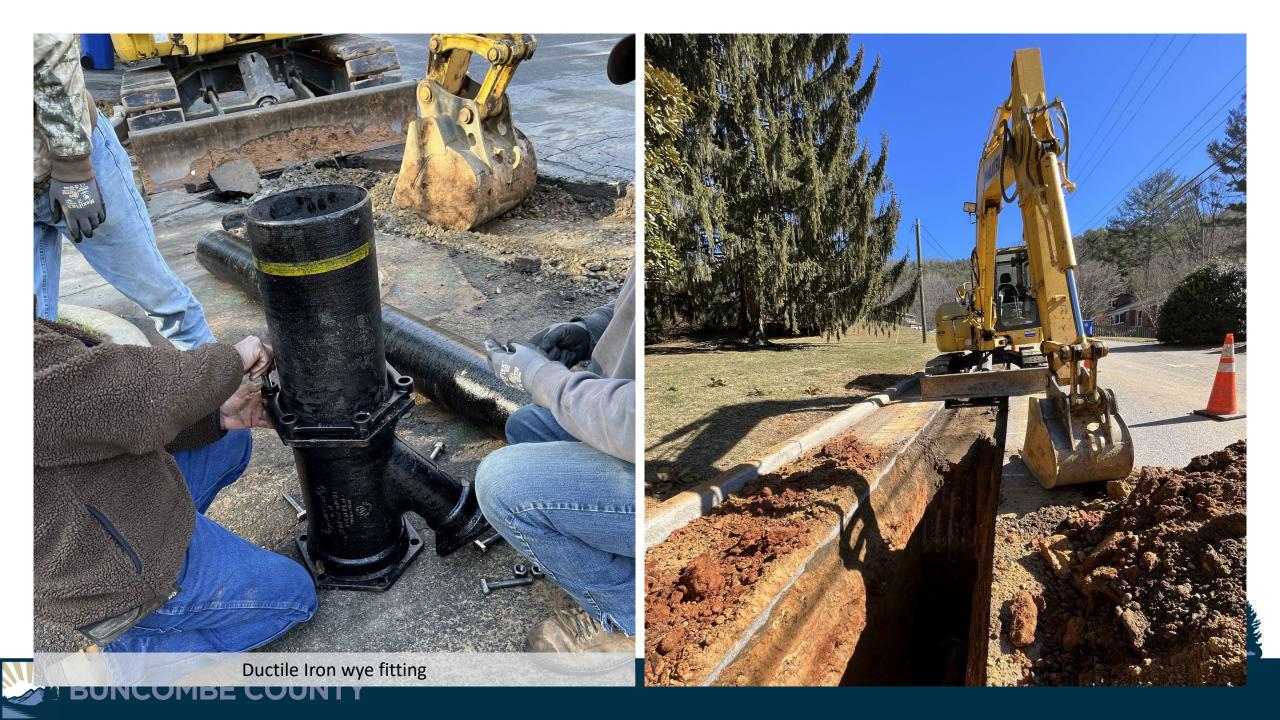
COLLECTION SYSTEM

LAST 12 MONTHS

- PREVENTATIVE MAINTENANCE CLEANING OF 874,899 FEET OF SEWER MAIN.
- CONSTRUCTED 21,000 FEET OF NEW SEWER LINES TO REPLACE AGING SYSTEM.







Last Fiscal Year ('20/'21), MSD spent \$1.57M on asphalt paving

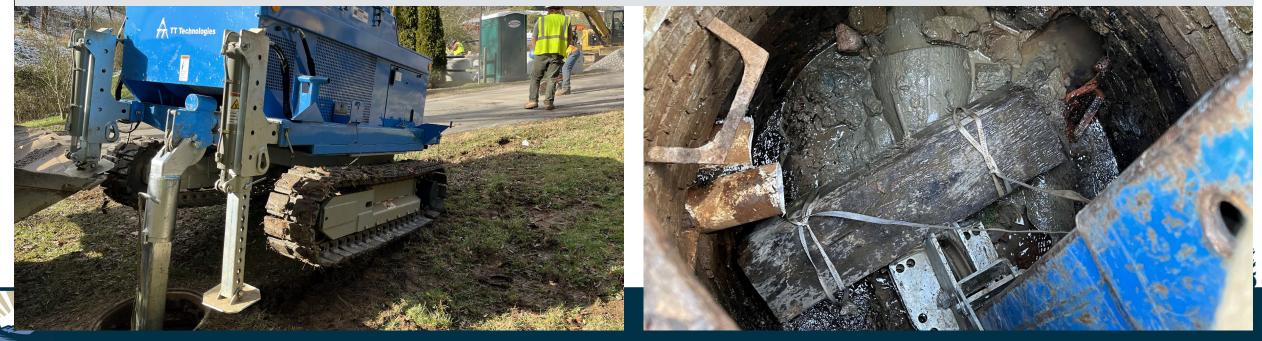
Installing temporary driving surface with ABC

New surface course – April 19, 2022

Installing 6" asphalt binder course per COA street standards



Pipe bursting bore pit (top left); bursting head and HDPE pipe (top right); winch machine (lower left); bursting head entering old manhole (lower right)





24" jack and bore auger inside steel casing pipe





Bore pit in parking lot of Eurosport Asheville (top & bottom photos)

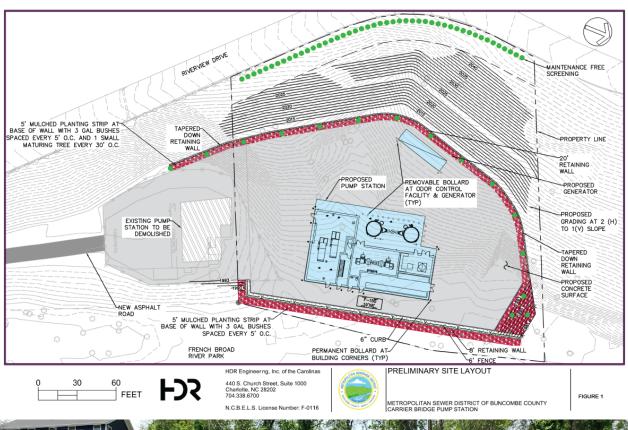


Carrier bridge pump station replacement

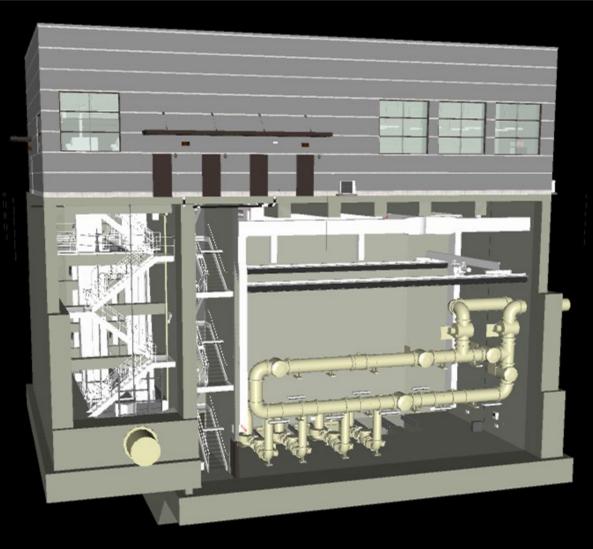
- MSD's largest pump station, constructed in 1966
- Serves large portions of South & West Buncombe, North Henderson
- Capacity increase from 22mgd to 40mgd (2070 flow projection)











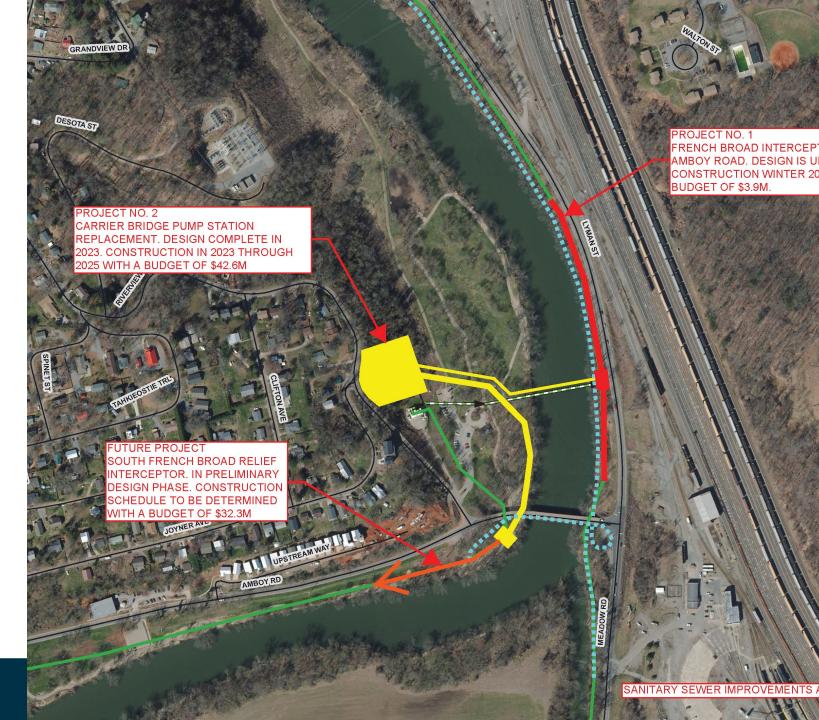
- Design by HDR 90% Complete
- Permitting phase
- Construction anticipated to begin Fall 2023
- \$50M price tag

Project details

- Located next to existing PS
- 800 LF of new 60-inch inlet piping
- Two (2) 36-inch discharge force mains
 - Exploring "open-cut" option

BUNCOMBE COUNTY

- Enclosed PS with odor control
- Project Cost \$50 million





APPROXIMATELY 1,100 FEET OF 60-INCH GRAVITY SANITARY SEWER REPLACEMENT

LTMAN ST

SCOTTST

WALTON ST DEPOTST

BYPASS PIPING

MEADOW RD

. III.

THE REAL PROPERTY.

BYPASS PIPING

RIVERVIEW DR

CLIFTON AVE

EXISTING 48-INCH AND 54-INCH GRAVITY SANITARY SEWER

PROJECT NO.1 FRENCH BROAD INTERCEPTOR AT AMBOY ROAD

CAPITAL IMPROVEMENT PROGRAM

FY23 through FY32 (10 years)

Total Estimated Expenditures over 10-yr CIP

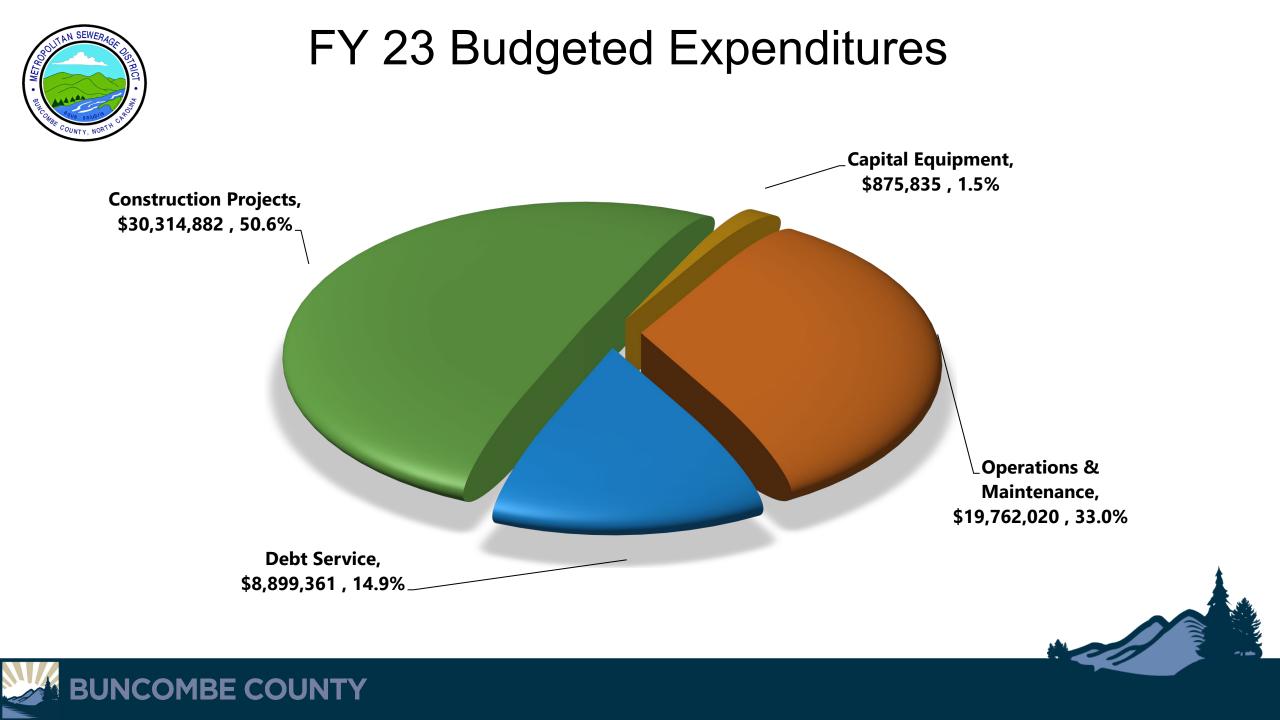
\$389.3M

• Consolidation thru end of FY21 Capital Expenditures total \$461.1 million.

Description	Proposed Expenditures	
Interceptors/Wet Weather Rehab	\$86.8M	
Collection System Rehabilitation	\$110.9M	
Treatment Plant & PS	\$153.7M	
Reimbursement Projects	\$1.5M	
Design/ROW/Const. Mgmt. Expenses	\$35.4M	



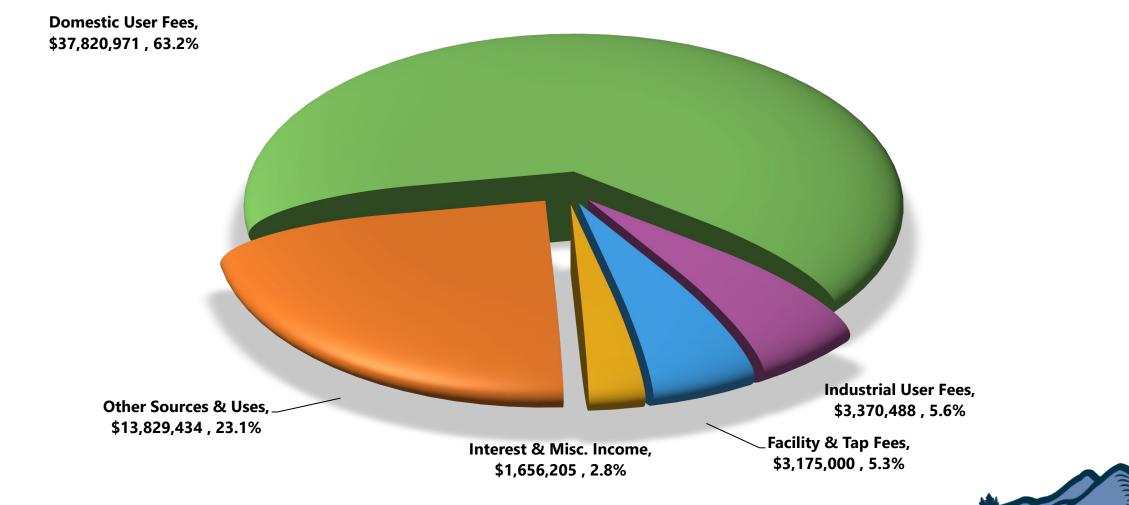




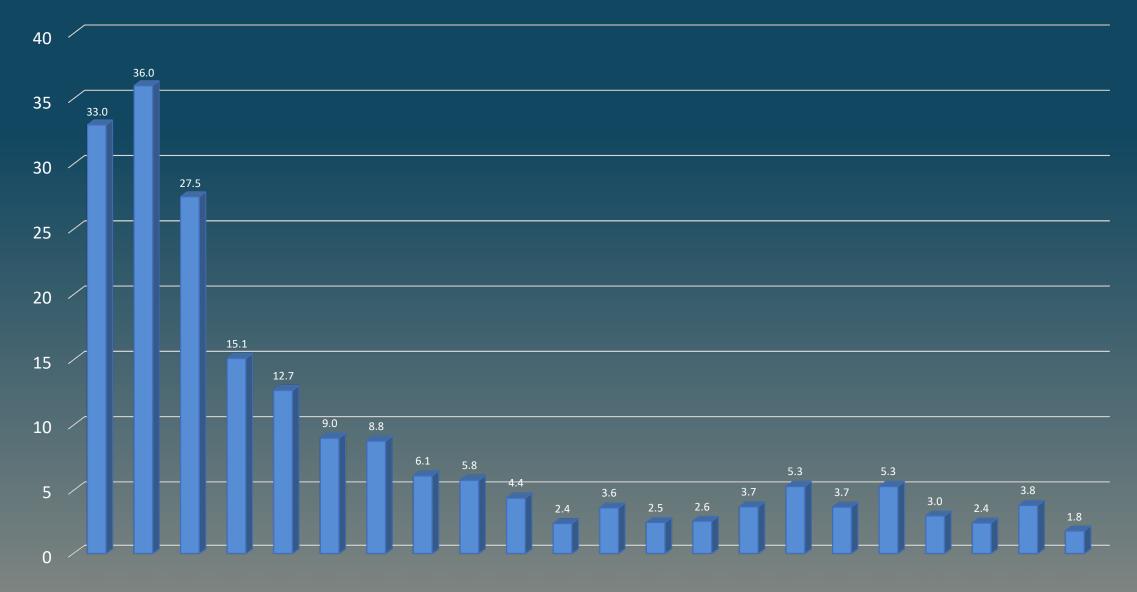


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FY 23 Budgeted Revenues



SSO's/100 Miles of Sewer per year





Questions ?

