

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT**  
**August 16, 2023**

**1. Call to Order and Roll Call:**

The regular monthly meeting of the Metropolitan Sewerage District Board was held in the Boardroom of MSD's Administration Building at 2:00 pm, Wednesday, August 16, 2023. Chairman VeHaun presided with the following members present: Ashley, Bryson, Dearth, Franklin, Kelly, Lapsley, Moore, Pelly, Pennington, Watts, Whitesides and Wisler. Manheimer was absent.

Others present were William Clarke, General Counsel; Forrest Westall, PE, with McGill Associates; Patty Beaver with CIBO; Anabel Winitsky with American Rivers; Marc Hunt with Woodfin Greenway and Blueway; Tom Hartye, Ken Stines, Pam Thomas, Bart Farmer, Spencer Nay and Pam Nolan, MSD.

**2. Inquiry as to Conflict of Interest:**

Mr. VeHaun asked if there were any conflicts of interest with the agenda items. No conflicts were reported.

**3. Approval of Minutes of the July 19, 2023 Board Meeting:**

Mr. VeHaun asked if there were any changes to the Minutes of the July 19, 2023 Board Meeting. Mr. Kelly moved for approval of the minutes as presented. Mr. Watts seconded the motion. Voice vote in favor of the motion was unanimous.

**4. Discussion and Adjustment of Agenda: None.**

**5. Introduction of Guests:** Mr. VeHaun welcomed Anabel Winitsky with American Rivers; Marc Hunt with Woodfin Greenway and Blueway; and Patty Beaver with CIBO.

**6. Informal Discussion and Public Comment: None.**

**7. Report of General Manager:**

Kudos to the Treatment Plant Operations and Maintenance Staff for the NACWA Gold Peak Performance Award for consistent permit compliance.

Mr. Hartye reported that Bob Debrecht at 11 Briarcliff Drive called to express his thanks to the crew for work done on the creek crossing. Thanks to MSD's in-house Construction Division.

Mr. Hartye reported that attached to the Report was a Memorandum of Understanding (MOU) between MSD and American Rivers regarding the study to be conducted by American Rivers to assess the environmental and economic impacts of removing the Craggy Dam and the associated hydroelectric facility. The study is to be funded by North Carolina Wildlife Resources. Funding is expected to be released in November and the study

completed by July of next year. The study does not obligate MSD to any action whatsoever regarding the dam.

Mr. Hartye reported that the August Right of Way Committee has been cancelled. The next Right of Way Committee Meeting will be held on September 27<sup>th</sup> at 9 am. The next Board Meeting will be held on September 20<sup>th</sup> at 2 pm.

**8. Consolidated Motion Agenda:**

**a. Consideration of Contract for Design Services – ITT Pump Station Upgrade:**

Mr. Hartye reported that the pump station was constructed in 1997 and obtained by MSD during consolidation with Cane Creek Water & Sewer District (CCWSD) in July of 2020. The station is generally in fair to poor condition and needs upgrading as the station serves portions of the Mills River Township in Henderson County. This pump station is a critical component of any southward expansion of the collection system on the west side of the French Broad River. Any extension into the Mills River and/or Boylston Creek sewersheds will require the replacement of this pump station. In accordance with the General Statutes, the District advertised a Request for Qualifications and received responses from Highfill Infrastructure Engineering and McKim & Creed. The selection committee chose McKim & Creed, who had the overall highest score and is the most qualified engineering consultant to complete the design for this project. They have designed and overseen similar construction projects. There was a change of scope as the District went into this project from what was anticipated early in 2019, before the District had taken this over. There are a couple of different routes for potential replacement of the force main as well as trying to get the station relocated out of the flood plain. At this time, we do not have access for emergency equipment, flush trucks, pumps, etc. There are two alternate locations out of the flood plain that will have easier access for emergencies as well. The original budget for this project was \$125,000.00. The District has negotiated with the Engineering Firm for a reduced fee of \$225,640.00. This is a multi-year project so there is a Capital Project Ordinance required. The FY23/24 budget for this project is \$125,000. Sufficient funds are available in the CIP Contingency Fund to cover anticipated expenditures in the FY23/24 fiscal year. Remaining expenses will be budgeted in FY24/25.

**b. Consideration of Developer Constructed Sewer Systems – Aiken Road; Jumbo Storage III; Waynesville Avenue Cottages:**

Mr. Hartye reported that the Aiken Road project is located off Aiken Road in Buncombe County and included extending approximately 4,155 linear feet of 8-inch public gravity sewer to serve 407 apartments.

Mr. Hartye reported that the Jumbo Storage III project is located off Glenn Bridge Road in the City of Asheville and included relocating approximately 270 linear feet of 16-inch public gravity sewer along with abandoning approximately 240 linear feet of public sewer to accommodate the commercial development.

Mr. Hartye reported that the Waynesville Avenue Cottages project is located along Waynesville Avenue in the City of Asheville and included extending approximately 127 linear feet of 8-inch public gravity sewer to serve 7 homes in the residential development.

Staff recommends acceptance of the aforementioned developer constructed sewer system. All MSD requirements have been met.

**c. Fourth Quarter Budget to Actual Review FY 2023:**

Mr. Powell reported that Page 45 presents the Fourth Quarter Budget to Actual Review. Domestic and Industrial Revenue are above budgeted expectations. Staff believes Domestic User Fee variance will end up around 104% when June accounts receivable data is received from its Member Agencies in September. Facility and Tap Fees are above budgeted expectations. This is due to the District receiving an additional \$1.6 Million from various developments. Interest and miscellaneous income are above budgeted expectations due to actual short-term interest rates exceeding anticipated yields for the fiscal year. O&M expenditures are at 89.4% of budget. This amount may vary slightly from audited numbers due to final accruals. Bond principal and interest and other long-term obligations are at budgeted expectations. Capital Project Expenditures are at approximately 72.88% of budget. This reflects delays in projects. All unexpended funds have been included in the FY2024 Budget.

**d. Reimbursement Resolution for Bond Projects:**

Mr. Powell reported that to be in compliance with IRS Regulations concerning tax exempt financing, all expenditures made with non-MSD bond funds and to be reimbursed from MSD bond funds must be properly identified and authorized. The proposed reimbursement resolution identifies major projects intended to be solely or substantially financed by bonds anticipated to be issued in FY2026. Board approval is required to obtain the tax exemption of interest paid on MSD bonds by authorizing reimbursement from bond proceeds of the expenditures for the attached project listing.

**e. Consideration of Budget Amendment of Fleet Replacement:**

In FY 2022 and FY 2023, the Board approved the purchase of vehicles and heavy equipment during the budget process. Due to the impact of COVID-19 on supply chains, the deliveries have been delayed. As such, Staff

recommends amending the Fleet and Heavy Equipment Fund in the amount of \$250,000.

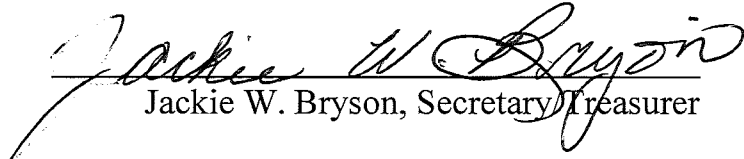
**f. Cash Commitment/Investment Report – Month ended June, 2023:**

Mr. Powell reported that Page 54 presents the makeup of the District's Investment Portfolio. There has not been a significant change in the makeup of the portfolio from the prior month. Page 55 presents the MSD Investment Manager Report as of the month of June. The weighted average maturity of the investment portfolio is 82 days. The yield to maturity is 4.98%. Page 58 presents the MSD Variable Debt Service Report. The 2008 A Series Bonds are performing better than budgeted expectations. As of the end of June, both issues have saved the District customers approximately \$7.5 million in debt service since April, 2008.

With no further discussion, Mr. VeHaun called for a motion to approve the Consolidated Motion Agenda. Ms. Wisler moved, Mr. Pelly seconded the motion. Roll call vote was as follows: 13 ayes; 0 nays.

9. **Old Business:** None.
10. **New Business:** None.
11. **Adjournment:**

With no further business, Mr. VeHaun called for adjournment at 2:15 pm.

  
Jackie W. Bryson, Secretary/Treasurer



# Metropolitan Sewerage District

Regular Board Meeting

August 16, 2023 @ 2 pm

	Agenda Item	Presenter
	Call to Order and Roll Call	VeHaun
	01. Inquiry as to Conflict of Interest	VeHaun
	02. <a href="#">Approval of Minutes of the July 19, 2023 Board Meeting</a>	VeHaun
	03. Discussion and Adjustment of Agenda	VeHaun
	04. Introduction of Guests	VeHaun
	05. Informal Discussion and Public Comment	VeHaun
	06. <a href="#">Report of General Manager</a>	Hartye
	07. Consolidated Motion Agenda	Hartye
	a. <a href="#">Consideration of Contract for Design Services – ITT Pump Station Upgrade-Information Only Item</a>	
	b. <a href="#">Consideration of Developer Constructed Sewer Systems – Aiken Road; Jumbo Storage III; Waynesville Avenue Cottages</a>	
	c. <a href="#">Fourth Quarter Budget to Actual Review FY2023</a>	
	d. <a href="#">Reimbursement Resolution for Bond Projects</a>	
	e. <a href="#">Consideration of Budget Amendment of Fleet Replacement</a>	Powell
	f. <a href="#">Cash Commitment/Investment Report-Month ended June, 2023</a>	Powell
	08. Old Business	VeHaun
	09. New Business:	VeHaun
	10. Adjournment: (Next Meeting 9/20/23)	VeHaun
	<a href="#">STATUS REPORTS</a>	

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT**  
**July 19, 2023**

**1. Call to Order and Roll Call:**

The regular monthly meeting of the Metropolitan Sewerage District Board was held in the Boardroom of MSD's Administration Building at 2:00 pm, Wednesday, July 19, 2023. Chairman VeHaun presided with the following members present: Bryson, Dearth, Franklin, Kelly, Lapsley, Manheimer, Pennington, Watts and Whitesides. Ashley, Moore, Pelly and Wisler were absent.

Others present were William Clarke, General Counsel; Forrest Westall, PE, with McGill Associates; Brian Goldstein with Woodfin Sanitary Water & Sewer; Tom Hartye, Hunter Carson, Ken Stines, Pam Thomas, Bart Farmer, Spencer Nay and Pam Nolan, MSD.

**2. Inquiry as to Conflict of Interest:**

Mr. VeHaun asked if there were any conflicts of interest with the agenda items. No conflicts were reported.

**3. Approval of Minutes of the June 14, 2023 Board Meeting:**

Mr. VeHaun asked if there were any changes to the Minutes of the June 14, 2023 Board Meeting. Mr. Watts moved for approval of the minutes as presented. Mr. Whitesides seconded the motion. Voice vote in favor of the motion was unanimous.

**4. Discussion and Adjustment of Agenda: None.**

**5. Introduction of Guests:** Mr. VeHaun welcomed Brian Goldstein with Woodfin Sanitary Water & Sewer.

**6. Informal Discussion and Public Comment: None.**

**7. Election of Officers:**

Mr. VeHaun called for nominations for Chair of the MSD Board. Mr. Kelly nominated Mr. VeHaun as Chair. Mr. Watts seconded the nomination. With no further nominations, Mr. VeHaun called for a motion that nominations be closed and that, by acclamation, Mr. VeHaun be elected as Chair of the MSD Board for 2023-2024. Mr. Whitesides moved and Mr. Kelly seconded the motion. Voice vote in favor of the motion was unanimous.

Mr. VeHaun called for nominations for Vice Chair of the MSD Board. Ms. Bryson nominated Mr. Kelly. Mr. Watts seconded the nomination. Mr. VeHaun called for further nominations. With no further nominations, Mr. VeHaun called for a motion that nominations be closed and that, by acclamation, Mr. Kelly be elected as Vice Chair of the MSD Board for 2023-2024. Mr. Whitesides made the motion. Mr. Watts seconded the motion. Voice vote in favor of the motion was unanimous.

Mr. VeHaun nominated Ms. Bryson for re-appointment as Secretary/Treasurer of the MSD Board for 2023-2024. Mr. Pennington made the motion. Mr. Kelly seconded. Voice vote in favor of Ms. Bryson's re-appointment was unanimous.

**8. Report of Committees:**

**a. Personnel Committee – July 18, 2023**

Ms. Bryson reported that the Personnel Committee met on July 18, 2023. Mr. Hartye gave a detailed and good presentation on his position through the years and his Goals and Objectives. There was a motion and a second by Personnel Committee to increase Mr. Hartye's salary by 4.5%. Mr. VeHaun stated that this item needs further discussion because he and several other Board Members feel that Mr. Hartye is deserving of the same increase of 6.3% COLA that all other employees at the District received, as opposed to the 4.5%. Mr. Lapsley asked if there was a merit in addition to the COLA. This is only COLA. There was discussion regarding how the Personnel Committee came to the 4.5% amount, how other agencies handle Director's and Manager's salaries, and Mr. Hartye's length of service with the District. Several Board Members expressed their appreciation and mutual agreement that Mr. Hartye should receive the 6.3% COLA.

Following discussion, Mr. Watts made the motion to approve 6.3% COLA for Mr. Hartye. Mr. Whitesides seconded the motion. Roll call vote was as follows: 10 ayes, 0 nays.

**9. Report of General Manager:**

Mr. Hartye reported that MSD has received the Certificate of Achievement for the Fiscal Year 2022 Annual Comprehensive Report. Thanks to Scott Powell and Jody Germaine.

Kudos to Plant Operations and Maintenance Staff for a successful rebuild of the Refractory Dome and Title V stack test, meeting all air quality requirements while setting new operational standards using less gas and lower temperatures. Also, thanks to Bart Farmer, the District's most recent Division Director, for spearheading that effort.

Mr. Hartye reported that the next Regular Board Meeting will be held on August 16<sup>th</sup> at 2 pm. The July Right of Way Committee Meeting is cancelled. The next Right of Way Committee Meeting will be held on August 23<sup>rd</sup> at 9 am.

**10. Consolidated Motion Agenda:**

**a. Consideration of Bids – Erwin Hills Road @ High School:**

Mr. Hartye reported that the purpose of this project is to replace an ageing and poorly constructed creek crossing with poor access and a history of SSO's. This project consists of approximately 121 LF of ductile iron pipe. The contract was advertised informally, and three sealed bids were received on June 29, 2023 as follows: Buckeye Construction Company in the amount of \$96,676.60; Terry Brothers Construction Company in the amount of \$64,675.60; and Burrell's Utilities and Excavating Inc. in the amount of \$61,285.00. The apparent low bidder is Burrell's Utilities and Excavating Inc. with a bid amount of \$61,285.00. This company is new to MSD and a reference and background check has been performed and is included with this item. The FY 23-24 construction budget for this project is \$60,000.00. Sufficient funds are available in the CIP contingency to cover the overage. Staff recommends award of this contract to Burrell's Utilities and Excavating Inc. in the amount of \$61,285.00.00, subject to review and approval by District Counsel.

**b. Consideration of Developer Constructed Sewer Systems – Asheville Area Habitat for Humanity-Glenn Bridge Road; Kirkwood MHP; B&F Ceramics; Mills River Fire Station:**

Mr. Hartye reported that the Asheville Area Habitat for Humanity-Glenn Bridge Road project is located between Brevard Road and Glenn Bridge Road SE in Buncombe County and included extending approximately 900 linear feet of 8-inch public gravity sewer to serve the 29-unit affordable housing development. The estimated cost for construction of this system is \$116,295.00. This project qualifies for the District's Cost Recovery Reimbursement for affordable housing, giving the lesser of the construction of the sewer extension or five years' estimated revenue. The estimated revenue is \$41,178.00. Staff recommends acceptance of this system and authorizes the General Manager to disburse \$41,178.00 to Asheville Area Habitat for Humanity, Inc.

Mr. Hartye reported that the Kirkwood MHP project is located along Old US 19/23 in Buncombe County and included extending approximately 2,788 linear feet of 8-inch public gravity sewer to serve the 75-home residential development.

Mr. Hartye reported that the B&F Ceramics project is located along Boylston Highway in Henderson County and included extending approximately 2,266 linear feet of 8-inch public gravity sewer to serve the Commercial Development. This project has been approved for MSD's Revenue Sharing Reimbursement Program. Mr. Lapsley asked if B&F Ceramics was paying for this sewer line extension. Mr. Hartye stated yes. Mr. Lapsley stated that he was bringing this up because local government is not participating in this one, even though it is an industrial investment.



As a local government person, he would like to publicly thank the industry. Normally, cities and counties are presented with requests from industries to chip in as an incentive for them to come here and they did not approach Henderson County. This is an example where the industry is taking this on themselves.

Mr. Hartye reported that the Mills River Fire Station project is located along Boylston Highway in Henderson County and included extending approximately 162 linear feet of 8-inch public gravity sewer to serve the new Fire Station.

Staff recommends acceptance of the aforementioned developer constructed sewer system. All MSD requirements have been met.

**c. Cash Commitment Investment Report – Month ended May, 2023:**

Mr. Hartye reported that Page 25 presents the average rate of return which is 3.154%. Total Cash and Investments was \$86,901,527. If you take away all current obligations for insurance funds, current year's budget, etc. and that leaves \$54,074,588 designated for Capital Outlay. Page 27 is a breakdown of the District's Investment Portfolio. Page 28 is the Investment Manager's report. Pages 29 and 30 present the YTD expenses and cash receipts and both of those are at budgeted expectations. Page 31 presents the 2008A Series Synthetic Fixed Bond with savings to date of approximately \$7.4 million.

With no further discussion, Mr. VeHaun called for a motion to approve the Consolidated Motion Agenda. Mr. Watts moved, Mr. Kelly seconded the motion. Roll call vote was as follows: 10 ayes; 0 nays.

**11. Old Business:** None.

**12. New Business:**

Mr. Kelly stated that he would like to raise a matter of concern. When this Board gets documents from Mr. Powell regarding the comparison of who is giving what raise from the City or County, it appears that the documents have already been adopted by the City, County, etc. What this Board was given said the Town of Biltmore Forest was going to give "x" amount which had not been adopted into their Budget yet. On the other hand, when Biltmore Forest got ready to adopt their Budget, they saw that MSD was giving a certain amount that MSD had not yet adopted. He stated that he thinks next year Personnel Committee should oversee that, if these figures are to be given and have not been adopted yet, it's probably what the Manager is going to recommend to the particular entity. He stated that he thinks it's "truth in lending" or "truth in providing." Everyone can't adopt their budget at the same time and rely on someone else's budget. Mr. Hartye stated that most of those are recommended. Mr. Kelly said that's what it should state next year. Mr. Hartye stated that in order to get this information to Finance Committee, Staff

cannot wait for everyone else to adopt their Budget so it has to be done based on their recommendation. He stated that he would make that clear next year.

Ms. Bryson stated that Woodfin Water and a couple of Town Council Members want to request when they will be able to schedule a tour of the Water Reclamation Facility. This had been put off due to construction. Mr. Hartye stated probably in about 3 weeks. Right now, construction is going on right in the heart of the plant which is pretty cumbersome so possibly mid-August.

**13. Adjournment:**

With no further business, Mr. VeHaun called for adjournment at 2:28 pm.

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Jackie W. Bryson, Secretary/Treasurer



## MEMORANDUM

TO: MSD Board  
FROM: Thomas E. Hartye, P.E., General Manager  
DATE: August 11, 2023  
SUBJECT: Report from the General Manager

- Kudos
  - To the Treatment Plant Operation and Maintenance Staff for the NACWA Gold Peak Performance Award for consistent permit compliance.
  - Bob Debrecht at 11 Briarcliff Drive called to express his thanks to the crew for replacing a sagging section of PVC pipe across the creek and attaching it to the sewer line on Briarcliff Drive. He said he appreciates the work done and wanted to say thank you to all involved. Thanks to MSD's in-house Construction Division.

- Craggy Dam Study

Attached is a Memorandum of Understanding (MOU) between MSD and American Rivers regarding the study to be conducted by American Rivers to assess the environmental and economic impacts of removing the Craggy Dam and the associated hydroelectric facility. The study is to be funded by North Carolina Wildlife Resources. Funding is expected to be released in November and the study completed by July of next year. The study does not obligate MSD to any action whatsoever regarding the dam.

- Board/Committee Meetings/Events

The August Right of Way Committee has been cancelled. The next Right of Way Committee meeting will be held on September 27 at 9am. The next Board Meeting will be September 20th at 2 pm.

**Gold** AWARD



The National Association of Clean Water Agencies is pleased to recognize

**Metropolitan Sewerage District of Buncombe County, NC**  
***French Broad River Water Reclamation Facility***

in recognition of its complete and consistent permit compliance during the calendar year

**2022**

A handwritten signature in black ink that reads "Adam Krantz". The signature is written in a cursive style and is positioned above a horizontal line.

NACWA Chief Executive Officer



MEMORANDUM OF UNDERSTANDING BETWEEN  
AMERICAN RIVERS, INC. AND METROPOLITAN SEWERAGE DISTRICT

This Memorandum of Understanding (MOU) entered into as of the date of execution, by and between:

American Rivers, Inc., a non-profit corporation with its headquarters at 1101 14th Street NW, Suite 1400 Washington, DC 20005, ("**American Rivers**");

METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY, NORTH CAROLINA, a body politic and corporate organized and existing under the laws of the State of North Carolina with its headquarters at 2028 Riverside Drive Asheville, NC 28804, ("**MSD**").

MSD and American Rivers are referred to hereinafter collectively as (the Parties), and individually as (Party).

- A. WHEREAS, MSD owns and operates Craggy Dam ("Dam"), a mainstem French Broad River hydropower dam outside of Asheville, NC located at (35.64178° N / -82.59922° E).
- B. WHEREAS, American Rivers' mission is to protect wild rivers, restore damaged rivers and conserve clean water for people and nature.
- C. WHEREAS, MSD has agreed to collaborate with American Rivers on a study to determine whether removing the Dam is environmentally and economically feasible.
- D. WHEREAS, just upstream of the dam, the Town of Woodfin is developing a river park, greenways, and an in-stream river feature called the Wave, and the Town of Woodfin is supportive of a study to determine whether removing the Dam is environmentally and economically feasible.

NOW, THEREFORE, in consideration of the mutual promises set forth herein, MSD and American Rivers agree as follows:

1. Term.

This MOU will become effective on the date of signature by both parties and will end no later than 24 months after the starting date, at which time it can be renewed by mutual agreement of the Parties.

2. Scope and Duties of Parties.

The Parties will:

- Convene by phone, remote or in person, as necessary, to carry out the objectives of this MOU.
- Develop a Request for Proposal (RFP) for the feasibility study based on the objectives described in further detail in Exhibit A.

American Rivers will:

- Manage funding from the North Carolina Wildlife Resources Commission for a feasibility study to investigate the environmental and financial factors involved in a potential dam removal.
- Serve as point of contact and contract manager for the feasibility study contract
- Coordinate communication with project management team and other parties as needed.

MSD will:

- Work with American Rivers on RFP development, firm selection and contract development to ensure that the feasibility study will meet MSD's decision-making needs regarding the potential for dam removal.
- Permit access to the Dam by American Rivers and its contractor(s) in order to conduct the feasibility study.
- Provide information for the feasibility study.
- Investigate the impact of potential of dam removal on previously issued revenue bonds.
- Assist with review of deliverables, provide comments and recommendations to the firm producing the feasibility study.
- Consider and evaluate the results of the feasibility study.

Any additional projects or implementation efforts that are deemed to be outside the scope of this MOU will require the parties to enter into either an additional MOU or an amendment to this MOU to implement the project or group of projects. The MOU or amendment to this MOU shall set forth the responsibilities of each party to the project(s). Nothing shall prohibit each individual Party from entering into agreements with other private or public entities to implement the project(s).

3. Expenses.

Each party will be responsible for its own legal and administrative expenses necessary to implement this MOU.

4. Key Personnel.

The following individuals are designated as contract representatives for their respective parties:

American Rivers:	Anabel G. Winitsky 29 North Market Street Suite 605 Asheville, NC 28801
Phone:	828-220-5017
Email:	<a href="mailto:awinitsky@americanrivers.org">awinitsky@americanrivers.org</a>
With a copy to:	General Counsel 1101 14 <sup>th</sup> Street, NW, Suite 1400 Washington, DC 20005
Phone:	202-347-7550
Email:	<a href="mailto:contracts@americanrivers.org">contracts@americanrivers.org</a>

Organization: Thomas E. Hartye, P.E.  
General Manager  
2028 Riverside Drive  
Asheville, NC 28804  
Phone: 828-254-9646

5. Materials.

Each Party shall furnish all materials, equipment, and supplies necessary to provide the services required by the implementation of this MOU.

6. Company Information.

Pursuant to this MOU, the Parties, will use and obtain company information concerning each other Parties. Such "Company Information" includes, but is not limited to: mailing lists, reports, files, memoranda, records and software, computer, and other physical personal property, which may be used to prepare or help to prepare in connection with this project. The Parties will not retain any copies, duplicates, reproductions or excerpts thereof.

7. Confidentiality.

In the course of this project, the Parties may acquire confidential information. The term "Confidential Information" as used in this MOU includes, without limitation, (a) Company Information as defined above in this MOU; (b) information received from third parties under confidential conditions, including but not limited to specific information about landowners, and (c) other technical, business or financial information or trade secrets, the use or disclosure of which might reasonably be construed to be contrary to the best interests of each Party. The Parties understand and agree that such Confidential Information is disclosed in confidence and solely for the use of by the Parties for the objectives of this MOU. The Parties acknowledges that each has no ownership right or interest in any Confidential Information used or developed during the course of this work. The Parties understand and agree to (a) keep such Confidential Information confidential at all times after the completion of work, and (b) not make use of the Confidential Information for a Party's own behalf or on behalf of any third party.

8. Intellectual Property.

Materials prepared or delivered pursuant to this MOU ("Work"), and which may be in the form of a spreadsheet, design protocols, database analysis sheets, maps, and reports shall be owned by the creating Party, and the creating party hereby grants the other Parties a non-exclusive, royalty free, irrevocable, worldwide license to the Work under United States intellectual property law and international intellectual property law. Such Work will give appropriate credit to the Party(s) and any funding source(s), if required. If any Work is a publication, distribution will be by mutual agreement between the Parties at the time of publication, with appropriate credit as noted and agreed upon above.

Any Party creating Work warrants that it is the sole creator of the Work except for such material from copyrighted sources as is reproduced by written permission of the



copyright owner, and that the Work: (i) is original (except for such material from copyrighted sources as is reproduced by written permission of the copyright owner); (ii) contains no matter that is scandalous, obscene or libelous or otherwise contrary to law; and (iii) contains only information and data that is true and accurate to the best of the Party's knowledge, belief, and expertise.

9. Representations.

The Parties represent that they will perform their services under this MOU in conformance with the care and skill ordinarily exercised by reputable members of the professional community practicing under similar conditions at the same time and in the same or similar locality.

No Party makes any other warranty of any kind, express or implied, by the furnishing of services.

10. Legal Relationship of Parties.

This MOU does not create a partnership relationship. The Parties do not have authority to enter into contracts on one another's behalf.

11. Termination.

Any Party may terminate this MOU with reasonable cause, effective immediately upon giving written notice to the other Parties.

Reasonable cause includes:

- A material violation of this MOU, or
- Any act exposing the other party to liability to others for personal injury or property damage.

Any party may terminate this MOU for its convenience by giving 60 days written notice to each of the other Parties. In the event of such termination, each party shall only be responsible for the payment or furnishing of services up to the date of termination.

12. Force Majeure.

Either Party shall be excused for any delay in performance hereunder arising from a cause beyond its control which it could not through the exercise of due diligence have avoided, including an action or inaction of any governmental authority, an act of God (which includes, but is not limited to, all natural disasters and substantial weather disturbances), an accident such as a fire or explosion not due to the negligence of the party seeking to be excused, war, acts of terrorism including threats of terrorism, disease or medical epidemics or outbreaks, a strike, a riot, or a substantial failure of public transportation facilities. The Party seeking to be excused shall give written notice and full particulars of the cause of delay as soon as possible after its occurrence.

13. Merger and Modification.

The MOU embodies the whole agreement of the Parties. There are no promises, terms, conditions, or obligations regarding the Parties' agreement other than those contained



herein or incorporated herein by reference. This MOU may be modified only by a writing signed by both Parties.

14. Logos and Identification.

Each Party must have permission from the other Party for the use of the others' name, logos, or other identifying information.

15. Nonassignability.

A Party may not assign its responsibilities to any other entity or person without the express written consent of the other Party.

16. Applicable Law and Jurisdiction.

This MOU will be governed by the laws of the state of North Carolina. Any action or proceeding arising hereunder shall be brought in the General Court of Justice for the 28<sup>th</sup> Judicial District of North Carolina.

17. Conflict of Interest.

The Parties agree to notify one another of any potential conflict of interest and/or related party transaction that could occur as a result of performance of the MOU. Notification should be sent to the primary business addresses listed above and to the key personnel listed above.

18. Notice.

All notices shall be deemed sufficient and to have been given upon receipt, if made in writing and mailed by registered mail, postage prepaid, to the Parties at the respective addresses stated at the beginning of this MOU, with a copy to the Key Personnel. Email is an acceptable form of notice with electronic read receipt documentation.

19. Headings; Counterparts.

Headings in this MOU are for purposes of reference only and shall not limit or otherwise affect the meaning hereof. This MOU may be executed in any number of counterparts, each of which shall be an original, but all of which together shall constitute one instrument. Digital, electronic, and wet signature counterpart signatures are sufficient to execute this MOU.

Exhibit A: SCOPE OF WORK  
Craggy Dam Feasibility Study

Purpose of Feasibility Study: Evaluate the financial, social, and environmental benefits of removing the Craggy Dam for the community by quantifying and monetizing these elements.

Background: Define Craggy Dam: Location, history, status, current use, and characteristics.

Elements to be evaluated:

1. Current dam operation evaluation
  - a. Benefits of the current dam and hydroelectric facility
  - b. Current operation/lifespan costs
2. Evaluation of any current ecological or water quality issues/impacts
3. Identify and quantify any impacts on upstream or downstream flooding or safety issues
4. Determine potential benefits of dam removal
  - a. Ecological: water quality, sediment, biological impacts, Marshall dam(s) impact (assertions on methane impact must be field verified)
  - b. Economic: recreation, flood resiliency, safety
5. Determine potential drawbacks of dam removal
  - a. Ecological: Increase in GHG and global warming, sediment disruption, biological impacts, water level/channel changes/hydraulics, impact to existing streamside facilities, increased human impacts
  - b. Economic: Increased power costs for MSD customers
  - c. Other: Impacts to Woodfin Riverside Park/Whitewater Wave project
6. Cost of Dam removal, infrastructure upgrades
  - a. Alternatives, their output and associated costs
  - b. Use or Demolition of Flume and Powerhouse
7. Permitting/Approval of Regulatory Agencies – garner preliminary input and eventual permitting/approval of US Fish and Wildlife, US Corps of Engineers, NC Dept. of Environmental Quality.

8. Exploration of alternatives: Offset options of hydropower generation, both cost and impacts to existing energy production facilities.
  - a. Operation/maintenance lifespan comparisons of those alternatives.

Define general deliverables: Technical report including analysis as specified by scope of work, sufficient to enable decision making regarding removal of Craggy Dam by MSD board.

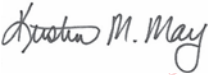
Timeline elements:

Dates subject to change based on release of NCWRC funding for study.

1. Funding received (Nov)
2. RFP launched (2-3 months, Nov - Jan)
3. Firm selected (Jan)
4. Notice to proceed (Feb)
5. Report ongoing (4-5 months, Feb - June)
6. Final report to MSD Board (July)

ACCEPTED AND AGREED:

American Rivers, Inc.

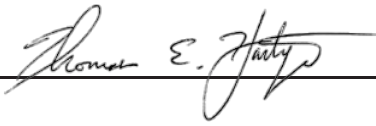
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Kristin M. May

Chief Financial Officer

DATE: 8/3/23

Metropolitan Sewerage District

BY: 

Thomas E. Hartye, P.E.

General Manager

DATE: 08/07/23

# Metropolitan Sewerage District of Buncombe County

## INFORMATION ONLY ITEM

**BOARD MEETING DATE:** August 16, 2023

**SUBMITTED BY:** Tom Hartye, P.E. – General Manager

**PREPARED BY:** Hunter Carson, P.E. – Director of Engineering  
Shaun Armistead, P.E. – Project Manager

**SUBJECT:** Consideration of Contract for Design Services: ITT Pump Station Upgrade, MSD Project No. 2020061

**BACKGROUND:** The ITT Pump Station, constructed in 1997, is located in Mills River, NC at the Broadpointe Industrial Park near the confluence of McDowell Creek and the French Broad River. The station has been owned and maintained by MSD since July 2020 when its previous owner, Cane Creek Water & Sewer District (CCWSD) consolidated with MSD. The station serves northern portions of the Mills River township in Henderson County, NC.

The station is generally in fair to poor condition and was identified for upgrade or replacement in CCWSD's FY2019 Drainage Basin Study. The study recommended additional wet well and pumping capacity to accommodate future growth. Currently, the station has no "available capacity" (per NCDEQ standards), primarily due to allocated flows which are not yet tributary to the system.

The ITT Pump Station is a critical component of any southward expansion of MSD's collection system on the west side of the French Broad River. Any extension into the Mills River and/or Boylston Creek sewersheds will require the replacement of this pump station.

The existing access to the pump station is located in a flood plain and is inaccessible with a flusher truck. This project will include the negotiation of a new access route through the Broadpointe Industrial Park in addition to the pump station upgrade.

### Selection of Consultant

In accordance with *NCGS 143-64.31*, the District advertised a Request for Qualifications for engineering design services and received responses from Highfill Infrastructure Engineering, and McKim & Creed. The selection committee objectively rated various aspects of each firm based on their capabilities, experience, and staffing as relevant to this project. McKim & Creed had the highest overall score and is the most qualified engineering consultant to complete the design for this project.

McKim & Creed has designed and overseen construction of many similar pump stations in the region and is intimately familiar with MSD's collection system and future service areas. As a result, they have the expertise necessary to design this unique system.

### Engineering Fee

After receiving an initial proposal, District staff negotiated a reduced fee in the amount of \$225,640.00. This exceeds the FY23/24 budget of \$125,000.00; however, the project scope has expanded from the preliminary scope proposed in the FY2019 CCWSD study upon which the project budget was based. During the RFQ process, MSD staff became aware of force main capacity issues that will need to be addressed as part of the upgrade, and also agreed that alternate pump station locations should be evaluated. Two alternate locations will be assessed for improved site and maintenance access, and better hydraulics.

Please refer to the attached "Exhibit A" Scope of Services and Fee Schedule for further details.

**FISCAL IMPACT:** The FY23/24 budget for this project is \$125,000.00. Sufficient funds are available in the CIP Contingency Fund to cover anticipated expenditures in the FY23/24 fiscal year. Remaining expenses will be budgeted in FY24/25.

A Capital Project Ordinance is required due to the design phase spanning multiple fiscal years, FY23/24 and FY24/25.

**ITT PUMP STATION UPGRADE  
CONTRACT FOR DESIGN SERVICES  
CAPITAL PROJECT ORDINANCE**

**BE IT ORDAINED** by the Board of the Metropolitan Sewerage District of Buncombe County, North Carolina, that pursuant to Section 13.2 of Chapter 159 of the General Statutes of North Carolina, the following ITT Pump Station Upgrade Design Contract Capital Project Ordinance is hereby adopted:

Section 1. The project authorized is the ITT Pump Station Upgrade –Design Contract to be financed in whole or in part by appropriated net position.

Section 2. The following amounts are appropriated for the project:

<b>Capital Expenditures</b>	<b><u>\$ 225,640.00</u></b>
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Section 3. The following revenues are anticipated to be available to provide for these expenditures:

<b>Transfer from General Fund</b>	<b><u>\$ 225,640.00</u></b>
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Section 4. The Finance Officer is hereby directed to maintain within the Construction Fund sufficient specified detailed accounting records to satisfy all financial reporting requirements.

Section 5. Funds may be advanced from the Operations and Maintenance fund if necessary for the purpose of making payments as due.

Section 6. The Finance Officer is directed to include a detailed analysis of past and future costs and revenues on this capital project in every budget submission made to this Board.

Section 7. Copies of this ITT Pump Station Upgrade – Design Contract Project Ordinance shall be furnished to the Secretary of the Governing Board, and to the Finance Officer for direction carrying out this project.

**ADOPTED** this Sixteenth day of August, 2023.

**ATTEST: BOARD OF THE METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE  
COUNTY, NORTH CAROLINA**

\_\_\_\_\_  
M. Jerry VeHaun, Chairman

\_\_\_\_\_  
Jackie W. Bryson Secretary/Treasurer

**APPROVED AS TO FORM:**

\_\_\_\_\_  
William Clarke, Legal Counsel  
Metropolitan Sewerage District  
of Buncombe County, NC

**EXHIBIT A**  
**PROFESSIONAL ENGINEERING SERVICES**  
**for the**  
**METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY**  
**ITT PUMP STATION REPLACEMENT**

**I. PROJECT UNDERSTANDING AND PURPOSE**

McKim & Creed, Inc. will provide a basis of design report, preliminary design, final design, permitting, and bid assistance services for the ITT Pump Station Replacement Project. Professional services for construction phase services will be added by amendment at a future date as determined by MSD.

MSD has owned and operated the ITT Pump Station, located in Mills River, Henderson County, since July 2020 when its previous owner, Cane Creek Water & Sewer District, consolidated with MSD. The station serves northern portions of the Mills River township in Henderson County, NC.

Given that a significant portion of the access road and the site are in the floodway, flooding is a concern. Also, the 1,400 LF access road is narrow and a near 180-degree turn from the access road onto a steep gravel drive up to the pump station creates operational and maintenance challenges. Alternative pump station locations will be evaluated as part of the basis of design report and preliminary design process. Additionally, the existing 6" force main does not have the hydraulic capacity to carry the increased future design flow. Therefore, force main replacement and installation alternatives will also be evaluated in the basis of design report and preliminary design phase.

The proposed project includes a replacement and expansion of the existing pump station from 0.375 million gallons per day (MGD) to 1.5 MGD and a replacement of the existing 2,783 LF of 6" force main.

Our detailed scope of services is provided as follows:

**II. SCOPE OF SERVICES**

**TASK 1 – BASIS OF DESIGN REPORT (BODR)**

Viable locations for the proposed pump station site and the existing pump station site will be evaluated under Task 1. Additionally, a preliminary routing analysis for the proposed force main will be conducted. Specific tasks include:



## **1.1 Data Collection and Review**

Collect and review available data including record drawings, operation, and maintenance manuals, permits, subsurface conditions (if available), and other relevant information provided by MSD.

## **1.2 Field Investigation**

Conduct a field visit to the existing pump station site, alternative pump station sites, existing force main route, and proposed force main route(s). The purpose of the site visit is to identify design constraints such as constructability, public and private property impacts, environmental and aesthetic impacts, and future sewer service availability. The site visit will be in conjunction with the project kickoff meeting.

## **1.3 Conceptual Design Assessment**

McKim Creed will perform a conceptual design assessment including the following:

1. Consult with NCDOT early in the routing evaluations to determine constraints or drivers that will impact the route of the force main. The existing 6" DIP force main is on the east side of the Old Fanning Bridge and there is an existing pipe sleeve and hangers for a future parallel 6" force main on the west side of the bridge. Two force main routes are therefore proposed as shown in Attachment A: Route 1 includes a new force main parallel or adjacent to the existing force main and Route 2 will cross the French Broad River at the Wild River Corp parcel adjacent to Riveter and connect to a manhole downstream of the existing discharge manhole (shorter route). Depending on direction from NCDOT, two construction methods to install a new force main are proposed to cross the French Broad River: aerial crossing utilizing existing hangers at the bridge or horizontal directional drill.
2. Prepare a preliminary routing map utilizing available aerial photography and GIS records for one in-person discussion meeting with MSD and NCDOT.
3. Prepare an estimate of force main construction cost for each route.
4. Evaluate force main material options.
5. Coordinate with MSD for potential locations of the proposed wastewater pump station and provide a preliminary estimate of construction cost and operation and maintenance cost for each site option. Two new sites are proposed as shown in Attachment B: alternative pump station location 1 is at the intersection of Broadpointe Dr. and Fanning Fields Road and alternative pump station location 2 is at the southeast corner of the UPM Raflatac facility. The existing pump station site will also be evaluated. All these locations will also be evaluated based on ease of future expansion beyond 1.5 MGD to accommodate the build-out demands in this area.
6. Evaluate pump station capacity for initial and future sizing to include:
  - a. Wetwell sizing
  - b. Screening/Grinding, Odor Control Requirements

- c. Force Main Sizing
- d. Initial & Future Pumping Capacity
- e. Electrical Component Sizing

#### **1.4 BODR Preparation and Submittal:**

Prepare the BODR including the information, findings, and recommendations developed from the tasks described above. The BODR will generally be comprised of the following:

1. Design criteria for the pump station and force main including civil, mechanical, structural, electrical, and instrumentation.
2. Preliminary layout drawings for the pump station and force main
3. Preliminary Opinion of Probable Construction Cost (OPCC)
4. Federal, state, and local permitting requirements
5. Easement identifications

A draft BODR will be submitted to MSD for review and comment. Upon receipt of comments by MSD, McKim & Creed will revise and finalize the BODR prior to project design efforts. Final decisions will be made on the location of the pump station and force main route. One electronic copy of the Final BODR will be provided to MSD.

For the purposes of the following scope of work (Tasks 2, 3, 4, 5, and 6), it is assumed that a new pump station will be designed and permitted for the site located at the southeast corner of the UPM Raflatac facility, including a new force main routed parallel or adjacent to the existing force main route utilizing the existing pipe sleeve and hangers on the bridge. It is assumed that the condition of the existing pipe sleeve is acceptable for use and the bridge crossing is structurally sound with replacement of existing hangers. Our detailed scope of work for these Tasks is provided as follows:

#### **TASK 2 – 30% PRELIMINARY DESIGN**

##### **2.1 Wetland Delineation**

McKim & Creed will coordinate with our geotechnical subconsultant, EnviroScience, to provide environmental services including:

1. Conduct field delineation of jurisdictional wetlands/waters of the U.S. along the proposed force main and gravity sewer main routes.
2. Collect upland and wetland site data for use in USACE data package.
3. Prepare upland/wetland sketch depicting approximate limits of flagged wetlands/waters.
4. Perform preliminary threatened and endangered species survey.

## **2.2 Topographical and Wetland Survey**

1. Perform a topographic survey of the 0.07 acre existing pump station site.
2. Provide topographic mapping as follows:
  - a. 40' wide corridor for the proposed force main and gravity sewer main routes.
3. Locate wetland flags along the force main and gravity main routes.
4. Perform a topographic survey of a 150' x 150' pump station site. If the final location of the pump station changes, additional survey may be required to accommodate the final site.

## **2.3 Subsurface Utility Engineering (SUE)**

1. Perform SUE Level B including electromagnetic (EM) and ground penetrating radar (GPR) designating to locate the existing force main.
2. If SUE Level A is required for the project, the following unit price will be billed upon authorization by MSD:

SUE Level A: \$1,500 per day for Traffic Control if needed and \$1,200 each hole, assuming no more than one day of work.

## **2.4 Geotechnical Investigations**

McKim & Creed will coordinate with our geotechnical subconsultant, S&ME, to provide a limited geotechnical investigation of the subgrade conditions at the selected pump station site to provide data needed to design structural foundations. The geotechnical investigations will include the following tasks:

1. Explore subsurface conditions by performing one soil test boring to a depth on the order of 50 feet below existing grades at the proposed pump station site.
2. Laboratory testing will be performed to verify soil classification and obtain soil strength parameters for construction and structure foundation design recommendations.
3. A findings report will be prepared which will include the following:
  - a. Site and exploration location plan
  - b. Soil test boring logs and generalized subsurface profiles
  - c. Recommendations for foundation bearing for the structures and equipment
  - d. Recommendations for site preparation and construction of structural compacted fills
  - e. Recommendations for control of groundwater or drainage systems if necessary

## **2.5 Pump Station, Gravity Main, and Force Main Design & Sizing**

1. Based on the final location of the pump station and force main routing, design parameters and associated hydraulic calculations will be performed to determine the following:

- a. A proposed 12" gravity sewer line from the existing pump station site to the new proposed pump station site.
- b. A proposed force main route utilizing the existing sleeve and hangers at the Old Fanning Bridge.
- c. Pump station wetwell, valve vault, and pipe sizing – peaking factors, equipment, and space constraints will be evaluated to determine the required wetwell size.
- d. Pump motor HP sizing – motor sizing will be evaluated and based on initial and/or future conditions based on the findings of the BODR in Task 1.
- e. Generator and electrical sizing – the size of electrical components, including starters, VFDs, generators, etc. will be evaluated and determined.
- f. Screening/Grinder Sizing –the proposed equipment and sizing will be evaluated and determined.
- g. A proposed site layout will be provided for the new pump station site.
- h. A proposed demolition plan for the existing pump station site.

## 2.6 Preliminary Design Deliverables and Tasks

1. Preliminary design deliverables will include 30% design drawings for submittal to MSD.
2. The 30% design drawings will include horizontal survey information and horizontal route for the proposed force main and the gravity main. Profile will not be included as part of the 30% design drawings.
3. The 30% design drawings will include planimetric site configuration drawings for the proposed Pump Station site. Detailed design or sectional views of the pump station will not be included at the 30% submittal stage.
4. Potential easements and land acquisition requirements will be identified for the force main route and pump station.
5. Design will adhere to MSD standards.
6. Technical specifications will not be included as part of the 30% design drawings.
7. 30% design drawings will be submitted to MSD for review and comment.
8. McKim & Creed will meet with MSD staff to review recommendations and obtain comments and will incorporate MSD's comments as required.

## TASK 3 – 60%, 90% AND FINAL DESIGN PHASES

Upon completion of *Task 2- 30% Preliminary Design*, the final design phase will commence. It is anticipated that final design will include a 60%, 90%, and a final submittal to MSD staff. Specific tasks for final design include:

### 3.1 Force Main and Gravity Main Design

1. Prepare 60%, 90%, and 100% design drawings and construction documents compliance with current MSD standards. Construction plans will be prepared at 1" = 50' scale (horizontal) and 1" = 5' (vertical) on 24" x 36" media. Note that aerial photography may be used as a background for plan and profile documents.

2. McKim & Creed will conduct review meetings with MSD's staff at the 60%, 90%, and 100% Design stages to provide status updates, review project submittal documents, and receive MSD's comments on project submittal documents.
3. Updated opinions of probable cost will be prepared for the project to be submitted at the 60%, 90%, and 100% Design submittal stages.
4. Design will adhere to MSD standards.
5. Technical specifications will be prepared for the construction contract. The documents shall include a table of contents followed by technical specifications to be included in the Construction Documents.

### **3.2 Pump Station Design**

1. Provide detailed design of the proposed Pump Station to include electrical, mechanical, telemetry, site work, piping, and miscellaneous components. Note that it is assumed that pre-cast concrete structures will be utilized for the wet well and valve vault, therefore structural design for these components is not included in this scope of work. The design of the pump station improvements will specifically include the following components:
  - a. Design of demolition or abandonment of existing facilities at the existing pump station site
  - b. Pre-Cast components for wet well and valve vault.
  - c. Two new submersible pumps (sizing to be verified during preliminary design phase).
  - d. Two variable frequency drives, one dedicated to each pump.
  - e. New electrical service.
  - f. Sizing and design specifications for new permanent stand-by generator.
  - g. Structural design for new generator concrete pad.
  - h. Influent grinder/screen if desired by MSD
  - i. Odor control (if desired by MSD)
  - j. Telemetry / Controls compatible with MSD standards.
2. Construction Plans will be prepared at a scale appropriate to provide necessary details for permitting and construction. Note that aerial photography may be used as a background for pump station site plan documents.
3. McKim & Creed will conduct review meetings with MSD's staff at the 60%, 90%, and 100% Design stages to provide status updates, review project submittal documents, and receive MSD's comments on project submittal documents.
4. Updated opinions of probable cost will be prepared for the project to be submitted at the 60%, 90%, and 100% Design submittal stages.
5. Design will adhere to MSD standards.
6. MSD "front-end" documents will be incorporated as part of 60% and 90% submittals.
7. Technical specifications will be prepared for the construction contract. The documents shall include a table of contents followed by technical specifications to be included in the Construction Documents.

### **3.3 Easement Survey Mapping and Preparation**

1. This scope of work includes easement surveys for four parcels based on preliminary force main routes and final pump station site. McKim & Creed will prepare plats and legal descriptions for each parcel for recordation by MSD. It is assumed that the easements will be 20' with a 15' temporary construction easement to either side of the permanent easement in accordance with MSD Right-of-Way policy.
2. Prepare map and legal description of proposed pump station site suitable for recordation and fee simple acquisition.
3. Note that a unit price of \$950.00 per parcel will be utilized for additional easement plats, if required for the project, upon authorization by MSD.

### **3.4 Quality Assurance and Quality Control**

1. The Consultant will include an in-house quality assurance/quality control (QA/QC-Value Engineering Review) review with staff members not involved in the project. The QA/QC review will be entirely separate from the normal in-house reviews conducted by the project team and MSD's staff. The QA/QC review will be conducted after the 30%, 60%, and 90% design submittals and its findings presented to the design team along with comments from MSD's 30%, 60%, and 90% design review. Prior to bid, a final QA/QC will be conducted for the Contract Documents.

### **3.5 Final Design Deliverables**

1. Meet with MSD staff to review recommendations and obtain comments. Incorporate comments as required.
2. Final design deliverables will include final design documents for submittal to MSD.
3. Final easement mapping for easements or land acquisition.

## **TASK 4 – PERMITTING**

McKim & Creed will prepare and submit the following permits (as applicable) for the project:

1. NCDOT Right of Way Encroachment Permit
2. NCDEQ Fast Track Sewer Permit
3. NCDEQ Erosion & Sedimentation Control Permit
4. NCDEQ Post Construction Stormwater Permit (through State)
5. US Army Corps of Engineers – Wetlands Permit
6. NCDEQ-DWQ – Wetlands Permit
7. Floodplain Development Permit and No-rise Certification
8. Duke Energy Right-of-Way Encroachment

## 9. Henderson County Building Permit

The following assumptions and provisions are provided with respect to permit submittals:

1. Based on preliminary review of the proposed pump station and standby generator requirements, an NCDEQ Air Quality permit is not anticipated and is not included in this scope of work.
2. The NCDOT encroachment permit and other permits (as applicable) may be submitted prior to final design with MSD concurrence to expedite the project schedule.
3. If directional drilling under the French Broad River for an alternate force main alignment is deemed to be necessary, a US Army Corps of Engineers Section 10 permit application is considered as additional services.
4. Additional effort to address new comments after two submittals is considered as additional services.

### **TASK 5 - BIDDING AND AWARD**

1. McKim & Creed will assist MSD in managing the advertisement process, including the following:
  - a. Issue Contract Documents. It is assumed that MSD will post the Contract Documents to its website or other means of advertisement for viewing by prospective bidders. Bidders intending to offer a bid will be required to purchase Contract Documents from McKim& Creed.
  - b. Conduct the pre-bid conference and prepare and issue minutes.
  - c. Assist in answering bidders' questions concerning elements and prepare technical information as necessary for inclusion in addenda if required.
  - d. Prepare addenda as appropriate to interpret, clarify, or further define the Contract Documents. Addenda will be issued by McKim & Creed upon MSD's approval.
  - e. Attend and/or conduct the bid opening.
  - f. Review proposal packages and prepare the certified bid tabulations.
  - g. Provide written letter of recommendation of award to MSD.
  - h. Provide conformed construction plan set and specifications (three full-size hard copies, one half-size hard copy, and one electronic copy).

The Bidding and Award Phase will conclude upon MSD's issuance of a notice of award to the selected construction contractor. If a re-bid is required, this effort shall be considered additional services.

### **III. COMPENSATION**

McKim & Creed will perform the services outlined in this Exhibit A for the fixed fee amounts as indicated below:

<b>Item</b>	<b>Fee</b>
Task 1: Preliminary Engineering	\$17,300
Task 2: 30% Preliminary Design Phase	\$82,750
Task 3: 60%, 90%, and Final Design Phases	\$94,600
Task 4: Permitting	\$19,590
Task 5: Bidding and Award Phase	\$11,400
<b>Total Estimated Fee (Tasks 1-6)</b>	<b>\$225,640</b>

#### **IV. ANTICIPATED PROJECT SCHEDULE**

The following is the estimated schedule for the scope outlined above:

<b>Task</b>	<b>Anticipated Duration from NTP (Calendar Days)</b>	<b>Anticipated Task Duration (Calendar Days)</b>
Notice to Proceed	0	0
Project Kickoff and Site Visit	10	10
BOD Document	70	60
30% Design Submittal	190	120
MSD Review and 30% Review	205	15
60% Design Submittal	265	60
MSD Review and 60% Review	280	15
Easement Acquisition	645	365
90% Design Submittal/Submit Permit Applications	340	60
MSD Review and 90% Review	355	15
100% Design Submittal	385	30
MSD Review and 100% Review	400	15
Receive Permits	490	90
Bid Documents Submittal	510	20
Advertise for Bids	690	45
Open Bids	690	0

*Note: The schedule provided is approximate and may vary depending on MSD's review, regulatory approval, easement acquisition, and unforeseen conditions.*

#### **V. ADDITIONAL SERVICES**

If authorized in writing by MSD, McKim & Creed shall furnish or obtain from others Additional Services of the types listed below. These services will be paid for by MSD on an hourly rate basis in accordance with the current Hourly Rate Schedule. Hourly rates are subject to adjustment on January 1<sup>st</sup> of each calendar year.

- Environmental Assessment or Environmental Impact Statement
- Construction Administration and Construction Observation Services
- Special Inspections.



- Condition assessment of existing pump stations, force mains, or associated equipment, appurtenances, miscellaneous items related to the existing system that will be impacted by implementation of the proposed project.
- Structural design of wetwell, dry-pit, or valve vault for the proposed Pump Station.
- Permit fees or fees for recordation of easement or fee simple mapping.
- NCDOT Right of Way Mapping or detailed research to verify existing rights of way along NCDOT routes.
- A bridge structural integrity analysis.
- Attendance at meetings or responses from review of the project design by outside consultants or other entities except for MSD staff.
- Court appearances for expert witness.
- Off-site drainage improvements.
- Environmental Impact Statements, or detailed surveys for endangered species.
- Redesigns of facilities after approval of final plans; or
- Court appearances for litigation, or preparation for the same

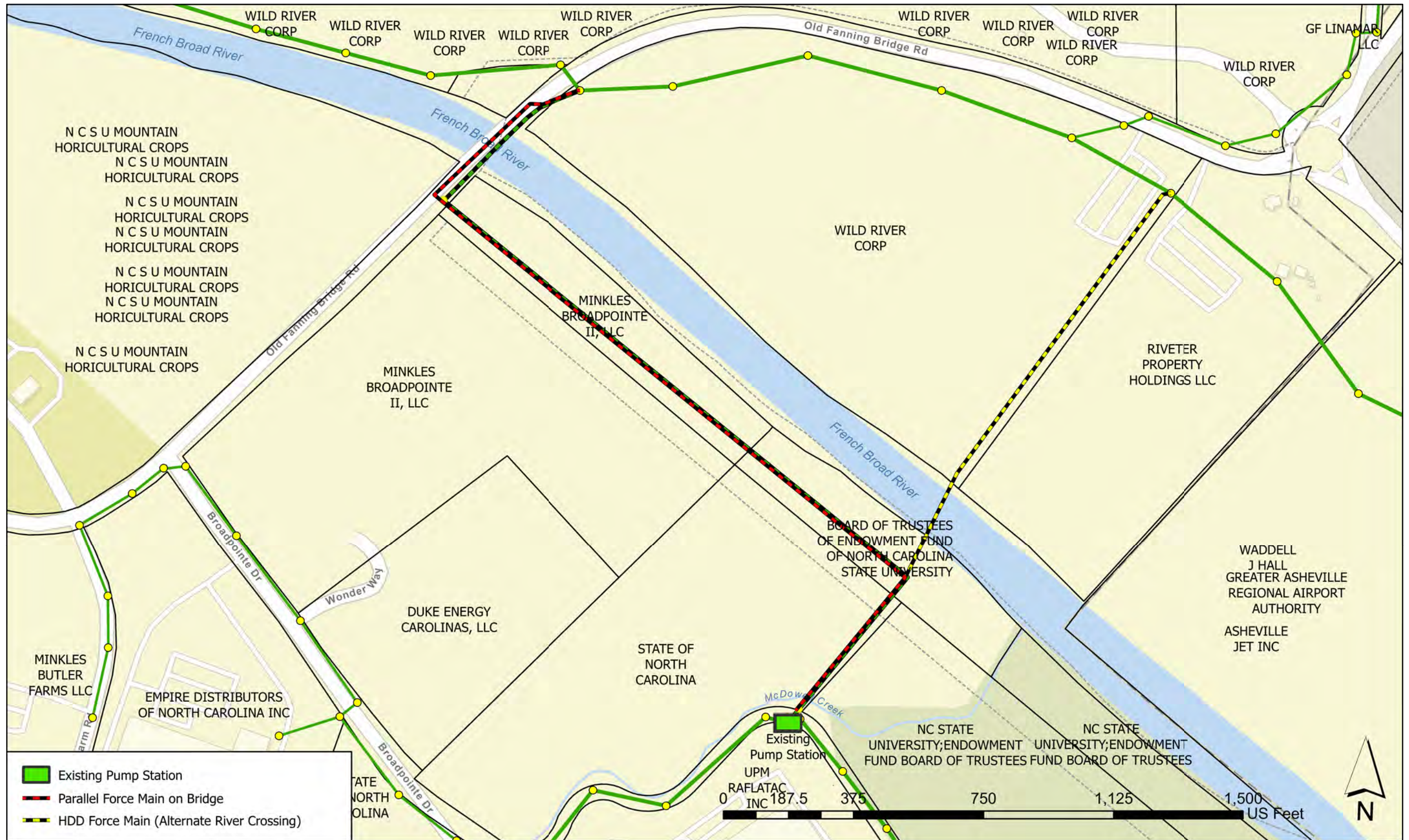
## **VI. PROJECT ASSUMPTIONS AND OWNER RESPONSIBILITIES**

The following assumptions regarding permitting and Owner's responsibilities have been made:

1. All communication and correspondence for this project will be MSD, who may be referred to in this proposal as "Owner."
2. Owner shall pay all fees for permits, easement and property recordation.
3. Owner shall provide full, unconditional, and unlimited access to property without additional permit or access agreements, for the purposes of site investigations.
4. It is assumed that a no-rise certification can be achieved for the floodplain impacts resulting from the proposed pump station and sewer construction at McDowell Creek and French Broad River for any other force main and site work that may encroach into existing floodplain limits. A letter of map revision or Conditional Letters of Map Revision is not included.
5. Only the permit approvals identified in Task 4 will be obtained. A general Nationwide Permit from the Army Corps will be appropriate, an individual permit will not be required.
6. The Owner will provide copies of all documents, tests, reports, modeling, or other miscellaneous information as required to facilitate completion of the project scope.
7. McKim & Creed will utilize MSD technical specifications and standard details (as available) and will supplement those details with McKim & Creed generated details as required for the project scope as outline in this proposal.

**END OF EXHIBIT A**





Attachment A. Proposed Force Main Routes





Attachment B. Proposed Pump Station Locations

**MSD of Buncombe County, ITT PS Replacement  
Manhour Estimation  
8/2/2023**

Subconsultant		Project Manager III	Project Manager I	Project Engineer IV	Project Engineer II	Project Engineer I	Sr. CADD Technician	Adm Asst	Sr. Project Administrator	Sr. Surveyor Manager	Survey Crews	Survey CADD Technician	Sub Total	Subs Etc. \$	Exp Sub Total	Proj Total
Task Number	Task	\$ 230	\$ 190	\$ 220	\$ 175	\$ 155	\$ 100	\$ 80	\$ 105	\$ 185	\$ 190	\$ 120				
<b>1</b>	<b>Basis of Design Report (BODR)</b>															
1.1	Data Collection and Review				2								2		\$ -	
1.2	Field Investigation				4								4		\$ -	
1.3	Conceptual Design Assessment	12		2	24	4	4						46		\$ -	
1.4	BODR Preparation and Submittal:	6	10		22		4	1	1				44		\$ -	
	Mileage/Expenses													\$ 200	\$ 200	
	<b>Subtotal Hours</b>	18	10	2	52	4	8	1	1				95			
	<b>Subtotal Cost</b>	\$ 4,140	\$ 1,900	\$ 440	\$ 9,013	\$ 620	\$ 800	\$ 80	\$ 53	\$ -	\$ -	\$ -	\$ 17,045		\$ 200	\$ 17,300
<b>2</b>	<b>30% Preliminary Design Phase Services</b>															
2.1	Wetland Delineation	1			1								2	\$ 7,200	\$ 7,200	
2.2	Topographical and Wetland Survey	1			2					20	88	51	162	\$ 3,470	\$ 3,470	
2.3	Subsurface Utility Engineering (SUE)	1			2					7	24	15	49	\$ 1,052	\$ 1,052	
2.4	Geotechnical Investigations	1	1	1	2								5	\$ 13,800	\$ 13,800	
2.5	Pump Station, Gravity Main, and Force Main Design & Si	8	4	4	32	12	50						110		\$ -	
2.6	Preliminary Design Deliverables and Tasks	2	2	1	8	4	12	4	2				35		\$ -	
	Mileage/Expenses													\$ 190	\$ 190	
	<b>Subtotal Hours</b>	12	7	6	47	16	62	4	2	27	112	66	361			
	<b>Subtotal Cost</b>	\$ 2,760	\$ 1,330	\$ 1,320	\$ 8,225	\$ 2,480	\$ 6,200	\$ 320	\$ 210	\$ 4,995	\$ 21,280	\$ 7,920	\$ 57,040		\$ 25,712	\$ 82,750
<b>3</b>	<b>60%, 90%, Final Design Phase Services</b>															
3.1	Force Main and Gravity Main Design	8	10		42		48	6					114		\$ -	
3.2	Pump Station Design	28	40	8	108	32	142	6					364		\$ -	
3.3	Easement Survey Mapping and Preparation	1			2								3	\$ 3,800	\$ 3,800	
3.4	Quality Assurance and Quality Control		24										24		\$ -	
3.5	Final Design Deliverables	4	16	2	32	8	24	6	4				96		\$ -	
	Mileage/Expenses													\$ 400	\$ 400	
	<b>Subtotal Hours</b>	41	90	10	184	40	214	18	4				601			
	<b>Subtotal Cost</b>	\$ 9,430	\$ 17,100	\$ 2,200	\$ 32,200	\$ 6,200	\$ 21,400	\$ 1,440	\$ 420	\$ -	\$ -	\$ -	\$ 90,390		\$ 4,200	\$ 94,600
<b>4</b>	<b>Permitting</b>															
	Permitting	8	25		48			8	1				90	\$ 3,500	\$ 3,500	
	Mileage/Expenses													\$ 350	\$ 350	
	<b>Subtotal Hours</b>	8	25		48			8	1				90			
	<b>Subtotal Cost</b>	\$ 1,840	\$ 4,750	\$ -	\$ 8,400	\$ -	\$ -	\$ 640	\$ 105	\$ -	\$ -	\$ -	\$ 15,735		\$ 3,850	\$ 19,590
<b>5</b>	<b>Bidding and Award</b>															
5.1	Bidding and Award	6	6	5	30	4	8	11	1				71		\$ -	
	Mileage/Expenses													\$ 100	\$ 100	
	<b>Subtotal Hours</b>	6	6	5	30	4	8	11	1				71			
	<b>Subtotal Cost</b>	\$ 1,380	\$ 1,140	\$ 1,100	\$ 5,250	\$ 620	\$ 800	\$ 880	\$ 105	\$ -	\$ -	\$ -	\$ 11,275		\$ 100	\$ 11,400
	<b>Total Hours</b>	85	138	23	361	64	292	42	9	27	112	66	1,152			
	<b>Total Costs</b>	\$ 19,550	\$ 26,220	\$ 5,060	\$ 63,088	\$ 9,920	\$ 29,200	\$ 3,360	\$ 893	\$ 4,995	\$ 21,280	\$ 7,920	\$ 191,500		\$ 34,070	\$ 225,640

## Water Market 2023 Schedule of Hourly Rates

Employee Classification	(Rate/Hour)
-------------------------	-------------

**Engineering**

Principal.....	\$300.00
Engineering Manager.....	\$270.00
Project Manager III.....	\$230.00
Project Manager II.....	\$210.00
Project Manager I.....	\$190.00
Technical Specialist III.....	\$280.00
Technical Specialist II.....	\$270.00
Technical Specialist I.....	\$240.00
Project Engineer IV.....	\$220.00
Project Engineer III.....	\$205.00
Project Engineer II.....	\$175.00
Project Engineer I.....	\$155.00
Engineer Intern.....	\$140.00
I&C Specialist III.....	\$205.00
I&C Specialist II.....	\$185.00
I&C Specialist I.....	\$155.00
Programmer III.....	\$190.00
Programmer II.....	\$175.00
Programmer I.....	\$145.00
Designer IV.....	\$160.00
Designer III.....	\$140.00
Designer II.....	\$130.00
Designer I.....	\$110.00
Sr. CAD Technician.....	\$100.00
CAD Technician.....	\$85.00
Sr. Project Administrator.....	\$105.00
Project Administrator.....	\$90.00
Administrative Assistant.....	\$80.00

**Construction**

Construction Administrator IV.....	\$185.00
Construction Administrator III.....	\$165.00
Construction Administrator II.....	\$150.00
Construction Administrator I.....	\$125.00
Project Representative III.....	\$145.00
Project Representative II.....	\$125.00
Project Representative I.....	\$110.00

**Field Services**

Field Technician I.....	\$90.00
Field Technician II.....	\$120.00
Field Services Manager.....	\$145.00

Employee Classification	(Rate/Hour)
-------------------------	-------------

**Surveying**

Sr. Surveyor/Project Manager III.....	\$250.00
Sr. Surveyor/Project Manager II.....	\$216.00
Sr. Surveyor/Project Manager I.....	\$185.00
Project Surveyor.....	\$160.00
Sr. Survey CAD Technician.....	\$120.00
Survey CAD Technician.....	\$100.00
Survey Field Supervisor.....	\$110.00
Project Coordinator I.....	\$100.00
Project Coordinator II.....	\$110.00
Project Coordinator III.....	\$130.00
Field Survey Party 1 Person Crew.....	\$120.00
Field Survey Party 2 Person Crew.....	\$190.00
Field Survey Party 3 Person Crew.....	\$245.00

**Subsurface Utility Engineering**

Regional SUE Director.....	\$300.00
Director of SUE.....	\$250.00
Utility Engineering Sr. Project Manager.....	\$230.00
Utility Engineering Project Manager.....	\$188.00
Utility Coordinator I.....	\$110.00
Utility Coordinator II.....	\$130.00
Utility Engineering Technician I.....	\$79.00
Utility Engineering Technician II.....	\$94.00
Utility Engineering Analyst.....	\$106.00
Utility Engineering Specialist.....	\$141.00
Utility Engineering Party (2 Person Crew).....	\$188.00

**Geospatial Information Systems**

GIS Specialist.....	\$121.00
GIS Technician II.....	\$99.00
GIS Technician I.....	\$79.00
GIS Analyst I.....	\$115.00
GIS Analyst II.....	\$125.00
LiDAR Field Technician.....	\$94.00
LiDAR Technician I.....	\$84.00
LiDAR Technician II.....	\$113.00
LiDAR Technician III.....	\$135.00
Photogrammetric Technician.....	\$109.00
Photogrammetrist.....	\$160.00



### Expenses

In addition to labor, McKim & Creed bills for the following project related costs at a contractually agreed markup: printing; conference calling charges; document review, permit or recording fees paid on behalf of the client; shipping; bid advertisement; specialty materials, software or equipment rental; sub-consultant fees; costs of project related employee travel including meals, lodging, airfare and miscellaneous travel costs such as tolls, parking etc.; mileage for all company-owned vehicles (trucks) will be billed at \$0.85/mile; employee owned vehicles used for transportation related to the project will be charged at the prevailing federal mileage rate allowed by the IRS at the time the travel occurs.

McKim & Creed also bills for the cost of internal reproduction and the use of specialized equipment related to subsurface utility vacuum excavation, mobile scanning (LIDAR), and hydrographic surveying.

**Metropolitan Sewerage District of Buncombe County, North Carolina  
CAPITAL IMPROVEMENT PROGRAM**

**BUDGET DATA SHEET - FY 2023 - 2024**

<b>PROJECT:</b> ITT Pump Station Upgrade	<b>LOCATION:</b> Henderson County
<b>TYPE:</b> Pump Station Improvement	<b>PIPE RATING:</b> N/A
<b>PROJECT NO.:</b> 2020061	<b>TOTAL LF:</b> 0
<b>PROJECT BUDGET:</b> \$1,181,500.00	<b>PROJECT ORIGIN:</b> Aging Infrastructure

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/22	EST. COST JAN - JUNE 2023	BUDGET FY 23-24
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN	\$35,000.00			\$35,000.00
55330 - DESIGN	\$90,000.00			\$90,000.00
55340 - PERMITS	\$9,000.00			
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS	\$1,500.00			
55370 - LEGAL FEES	\$25,000.00			
55380 - ACQUISITION SERVICES	\$12,500.00			
55390 - COMPENSATION	\$16,500.00			
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$932,000.00			
55430 - CONST. CONTRACT ADM.	\$35,000.00			
55440 - TESTING	\$15,000.00			
55450 - SURVEY - ASBUILT	\$10,000.00			
<b>TOTAL AMOUNT</b>	<b>\$1,181,500.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$125,000.00</b>

<b>ENGINEER:</b> MSD	SA	<b>ESTIMATED BUDGETS - FY 25 - 33</b>	
<b>R.O.W. ACQUISITION:</b> MSD	# PLATS: [ 1 ]	<b>FY 24-25</b>	\$57,500.00
<b>CONTRACTOR:</b>		<b>FY 25-26</b>	\$999,000.00
<b>CONSTRUCTION ADM.:</b> MSD		<b>FY 26-27</b>	\$0.00
<b>INSPECTION:</b> MSD		<b>FY 27-28</b>	\$0.00
		<b>FY 28-29</b>	\$0.00
		<b>FY 29-30</b>	\$0.00
		<b>FY 30-31</b>	\$0.00
		<b>FY 31-32</b>	\$0.00
		<b>FY 32-33</b>	\$0.00

**PROJECT DESCRIPTION:** The ITT pump station is located in the Broadpointe Industrial Park in south Asheville. The station is generally in fair to poor condition. Additional wet well capacity and pumping capacity will be necessary in the future. The existing access to the pump station is located in a flood plain area and is unaccessible with a flusher truck. The project should involve the negotiation of a new access route through the Broadpointe Ind. Park in addition to the PS upgrade.

**SPECIAL PROJECT NOTES:**



**ITT Pump Station Upgrade  
Project No. 2020061**

NOT TO SCALE



**METROPOLITAN SEWERAGE DISTRICT**  
of  
BUNCOMBE COUNTY, NORTH CAROLINA

**Budget Map**



# Metropolitan Sewerage District of Buncombe County

## Board Action Item

**BOARD MEETING DATE:** August 16, 2023

**SUBMITTED BY:** Tom Hartye, P.E. - General Manager

**REVIEWED BY:** Hunter Carson, P.E. - Engineering Director

**PREPARED BY:** Kevin Johnson, P.E. - Planning and Development Manager

**SUBJECT:** Acceptance of Developer Constructed Sewer System for the Aiken Road Multi-Family Sewer Extension, MSD Project No. 2019128

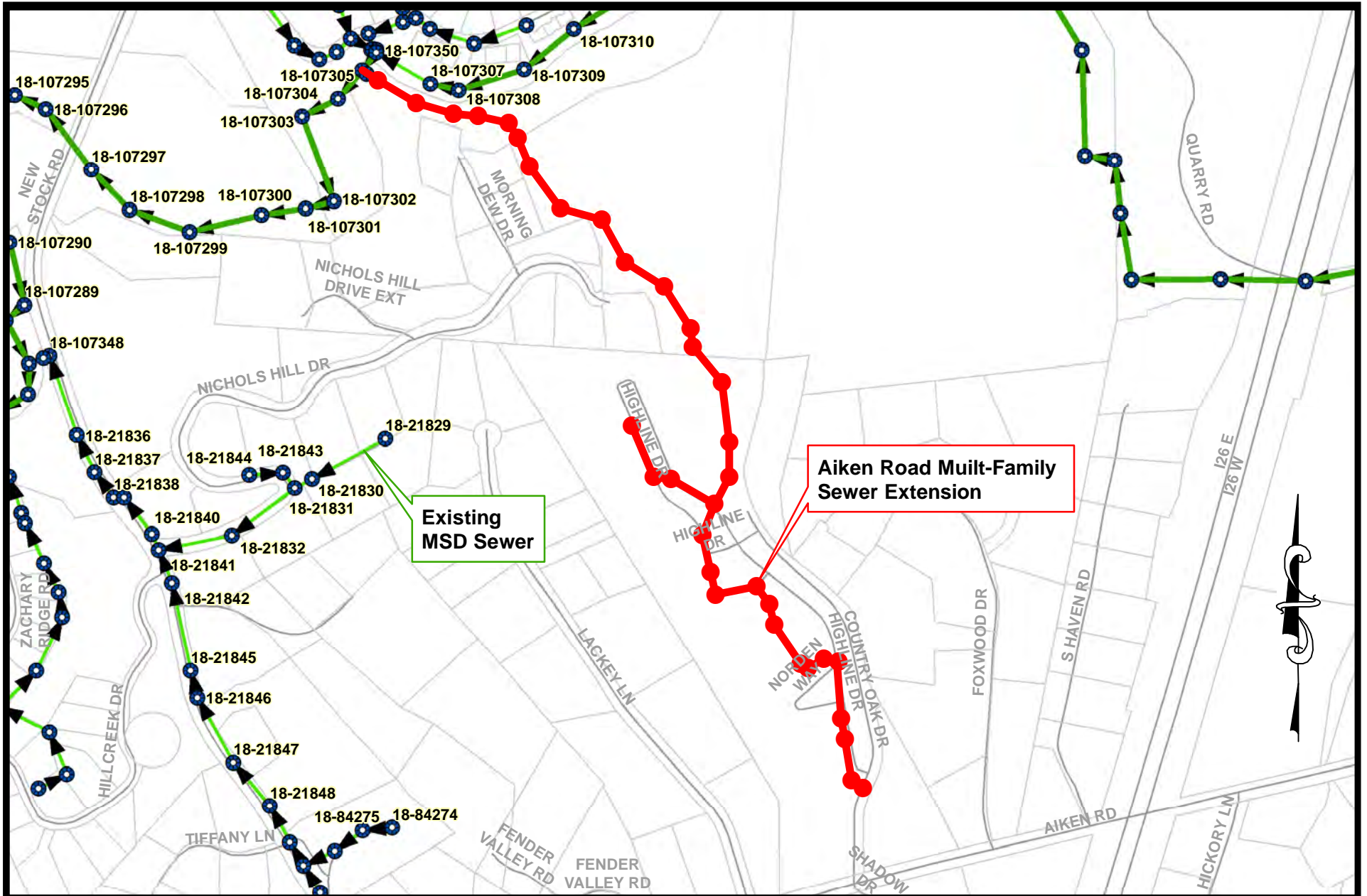
**BACKGROUND:** This project is located inside the District boundary off Aiken Road in Buncombe County. The developer of the project is Brian Wise of Aiken AVL, LLC.

The project included extending approximately 4,155 linear feet of 8-inch public gravity sewer to serve the Multi-Family Residential Development.

A wastewater allocation was issued in the amount of 122,100 GPD for the 407 Apartments in the residential development. The estimated cost of the sewer construction is \$363,936.41.

All MSD requirements have been met.

**STAFF RECOMMENDATION:** Staff recommends acceptance of this developer constructed sewer system.



**Aiken Road Mult-Family Sewer Extension**

**Existing MSD Sewer**



**MSD**  
Engineering Division

**Aiken Road Mult-Family Sewer Extension  
MSD Project # 2019128**

Metropolitan Sewerage District of Buncombe County

8/03/2023

# Metropolitan Sewerage District of Buncombe County

## Board Action Item

**BOARD MEETING DATE:** August 16, 2023

**SUBMITTED BY:** Tom Hartye, P.E. - General Manager

**REVIEWED BY:** Hunter Carson, P.E. – Engineering Director

**PREPARED BY:** Kevin Johnson, P.E. - Planning and Development Manager

**SUBJECT:** Acceptance of Developer Constructed Sewer System for the Jumbo Storage III Sewer Relocation, MSD Project No. 2022128

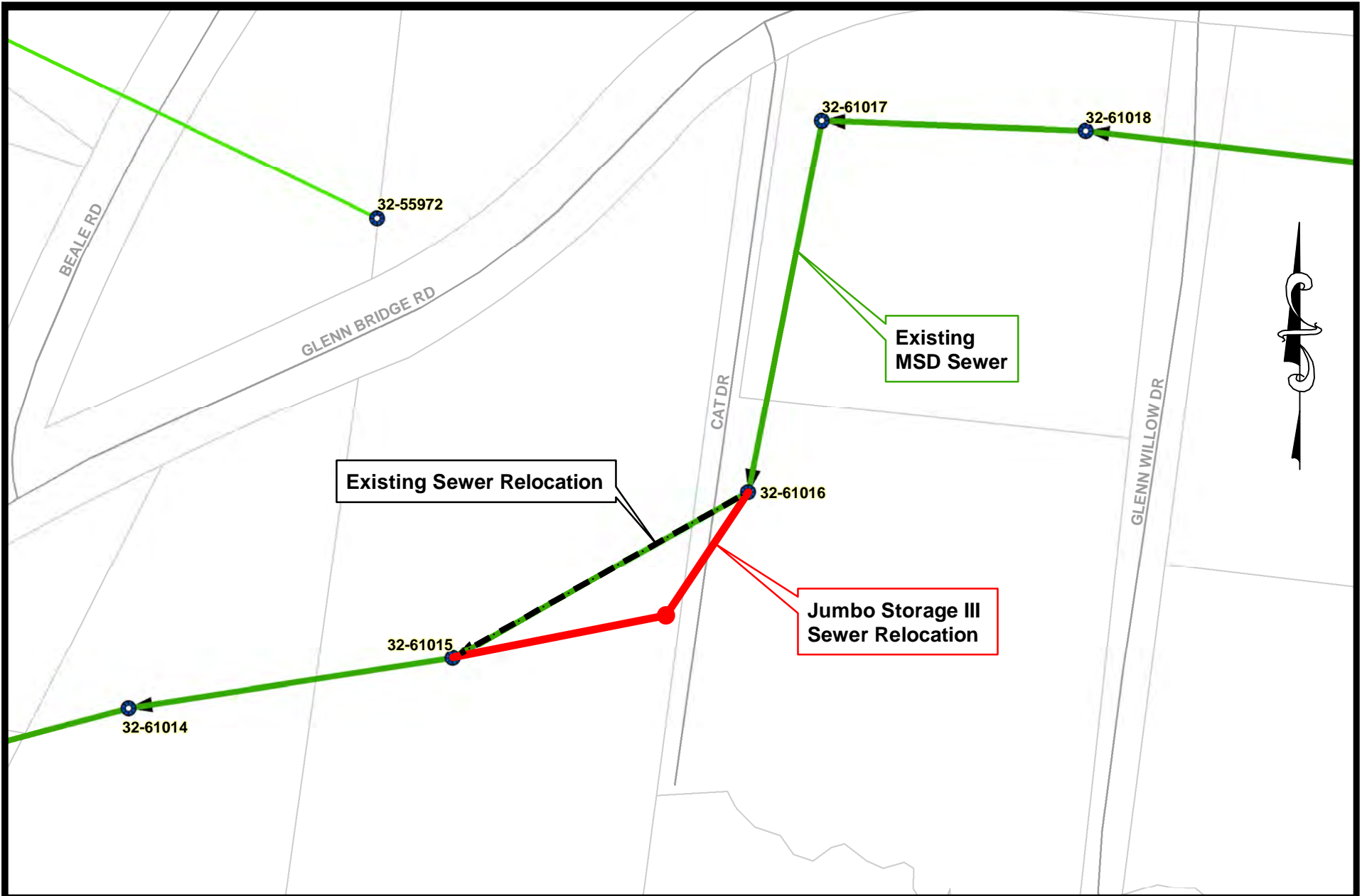
**BACKGROUND:** This project is located inside the District boundary off Glenn Bridge Road in the City of Asheville. The developer of the project is George Morosani of M Realty, LLC.

The project included relocating approximately 270 linear feet of 16-inch public gravity sewer along with abandoning approximately 240 linear feet of public sewer to accommodate the Commercial Development.

The storage buildings do not have plumbing. Therefore, no wastewater allocation was issued for the Commercial Development. The estimated cost of the sewer construction is \$125,000.00.

All MSD requirements have been met.

**STAFF RECOMMENDATION:** Staff recommends acceptance of this developer constructed sewer system.



**MSD**  
Engineering Division

**Jumbo Storage III Sewer Relocation  
MSD Project # 2022128**

Metropolitan Sewerage District of Buncombe County

8/03/2023

# Metropolitan Sewerage District of Buncombe County

## Board Action Item

**BOARD MEETING DATE:** August 16, 2023

**SUBMITTED BY:** Tom Hartye, P.E. - General Manager

**REVIEWED BY:** Hunter Carson, P.E. - Engineering Director

**PREPARED BY:** Kevin Johnson, P.E. - Planning and Development Manager

**SUBJECT:** Acceptance of Developer Constructed Sewer System for the Waynesville Avenue Cottages Sewer Extension, MSD Project No. 2021211

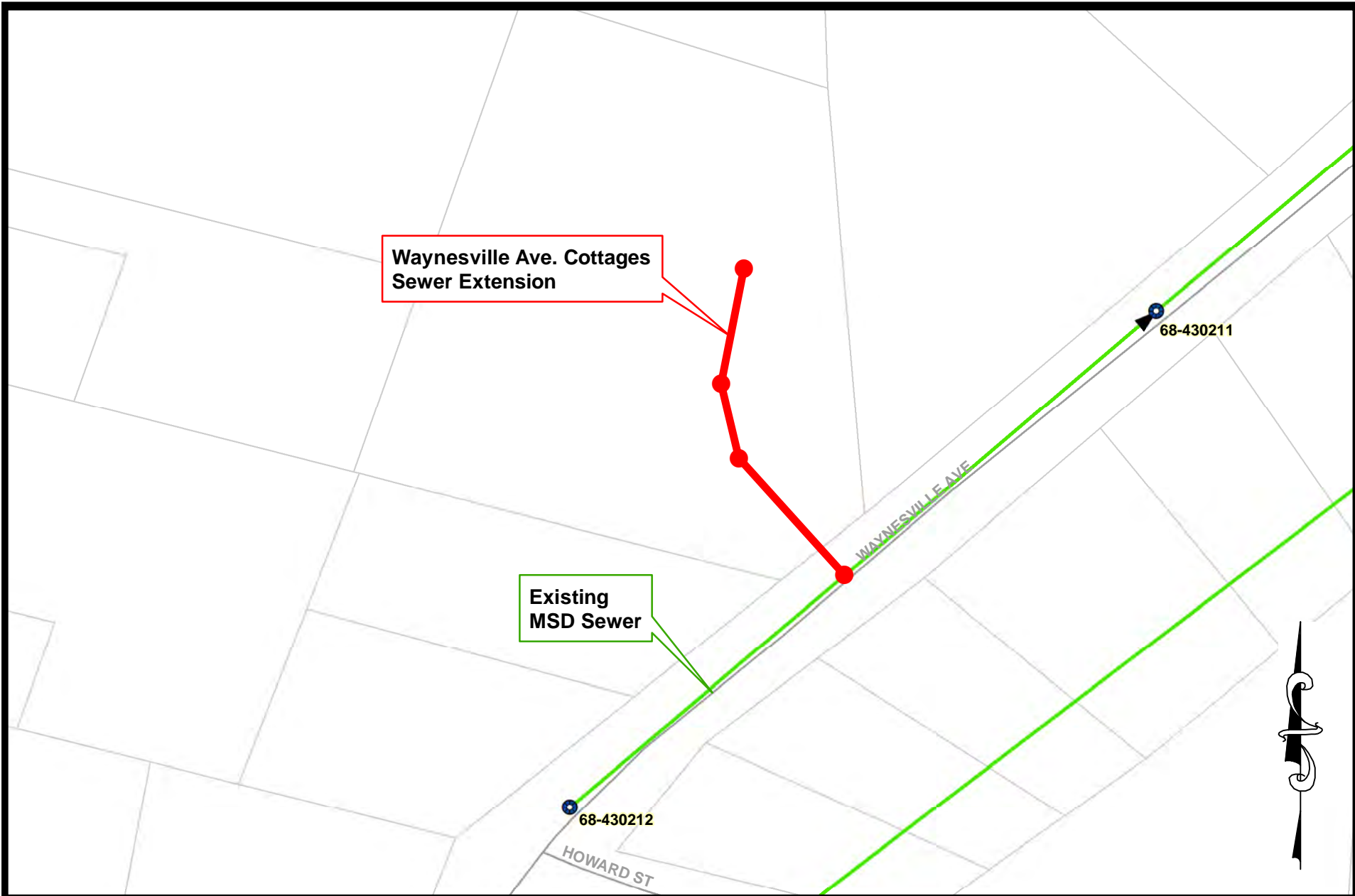
**BACKGROUND:** This project is located inside the District boundary along Waynesville Avenue in the City of Asheville. The developer of the project is Ken Jackson of Waynesville Avenue Development Group, LLC.

The project included extending approximately 127 linear feet of 8-inch public gravity sewer to serve the Single-Family Residential Development.

A wastewater allocation was issued in the amount of 2,100 GPD for the seven (7) homes in the residential development. The estimated cost of the sewer construction is \$64,700.00.

All MSD requirements have been met.

**STAFF RECOMMENDATION:** Staff recommends acceptance of this developer constructed sewer system.



**MSD**  
Engineering Division

## Waynesville Ave. Cottages Sewer Extension MSD Project # 2021211

Metropolitan Sewerage District of Buncombe County

8/03/2023

Metropolitan Sewerage District of Buncombe County  
BOARD INFORMATIONAL ITEM

Meeting Date: **August 16, 2023**  
Submitted By: **Thomas E. Hartye, PE., General Manager**  
Prepared By: **W. Scott Powell, CLGFO, Director of Finance**  
Subject: **Fourth Quarter Budget to Actual Review – FY2023**

### Background

At the end of each quarter, actual revenue and expenditure amounts are compared with the budget to evaluate performance. This information is based on cash revenues and invoices received prior to June 30, 2023 and may not include some accruals of revenue and expenditures.

### Discussion

There are several explanatory notes at the bottom of the attached Budget to Actual schedule.

Other considerations are as follows:

- Domestic and Industrial revenues are above budgeted expectations. Staff believes Domestic User Fee variance will end up around 104% when June account receivable data is received from its Member Agencies. Industrial Revenue trending better than budgeted expectations due to temporary increased revenue from short-term industrial users. Staff monitors consumption trends as they have a direct effect on the District's current and future revenue projections.
- Facility and Tap Fees are budgeted conservatively. The unusually large variance as of the end of the year is due to receiving unanticipated revenue of various developments.
- Interest and miscellaneous income are above budgeted expectations. Actual short-term interest rates exceeded anticipated yields for the fiscal year.

Meeting Date: August 16, 2023  
Subject: Fourth Quarter Budget to Actual Review – FY2023  
Page 2

Discussion (continued)

- Rental income reflects actual cash receipts.
  
- Actual and encumbered O&M expenditures are considered reasonable but may vary slightly once accruals and adjustments are made in connection to the final audit.
  
- Bond principal and interest are at budgeted expectations.
  
- Capital project expenditures are at approximately 72.88% of budget. This reflects delays in projects. All unexpended funds have been included in the FY2024 budget.

Staff Recommendation  
None - Information Only.

<b>Action Taken</b>			
Motion by:	to	<input type="checkbox"/> Approve	<input type="checkbox"/> Disapprove
Second by:		<input type="checkbox"/> Table	<input type="checkbox"/> Send to Committee
Other:			
Follow-up required:			
Person responsible:			Deadline:



Metropolitan Sewerage District

*Budget to Actual Revenue and Expenditure Report*

For the twelve months ended June 30, 2023

UNAUDITED--NON-GAAP

	Amended Budget	Actual to Date	% Budget to Actual
<b>REVENUES</b>			
Domestic User Fees <sup>1</sup>	\$ 36,801,493	\$ 37,661,217	102.34%
Industrial User Fees	3,370,488	3,799,708	112.73%
Facility Fees <sup>2</sup>	3,000,000	4,649,553	154.99%
Tap Fees <sup>3</sup>	175,000	693,708	396.40%
Billing and Collection	1,019,478	1,052,587	103.25%
Interest and Misc. Income	1,145,536	3,348,893	292.34%
Employee Contribution to Health Ins.	379,669	374,628	98.67%
City of Asheville (Enka Bonds)	35,000	27,962	79.89%
Rental Income	96,000	100,255	104.43%
Use of (Contributions to) Available Funds <sup>4</sup>	<u>14,829,434</u>	<u>(2,360,103)</u>	-15.91%
<b>Total Revenues<sup>5</sup></b>	<b><u>\$ 60,852,098</u></b>	<b><u>\$ 49,348,407</u></b>	<b>81.10%</b>
<b>EXPENDITURES</b>			
Operations and Maintenance <sup>6</sup>	\$ 19,859,655	\$ 17,759,819	89.43%
Bond Principal and Interest	9,699,361	9,639,167	99.38%
Capital Equipment (Other than O&M) <sup>6</sup>	978,200	584,854	59.79%
Capital Projects <sup>6</sup>	29,314,882	21,364,567	72.88%
Contingency	<u>1,000,000</u>	<u>-</u>	0.00%
<b>Total Expenditures</b>	<b><u>\$ 60,852,098</u></b>	<b><u>\$ 49,348,407</u></b>	<b>81.10%</b>

Notes:

<sup>1</sup>Revenues are accounted for on the cash basis method

<sup>2</sup>Increase due to unanticipated revenue from various developments

<sup>3</sup>Increase in number of Taps requiring Pavement Disturbance

<sup>4</sup>Pay-as-go funds to be used for CIP

<sup>5</sup>Budget-to-Actual Ratio does not include use of available funds

<sup>6</sup>Includes encumbered amounts as well as actual insurance expenditures

Metropolitan Sewerage District of Buncombe County  
**BOARD ACTION ITEM**

Meeting Date: August 16, 2023  
Submitted By: Thomas E. Hartye, PE., General Manager  
Prepared By: W. Scott Powell, CLGFO, Director of Finance  
Subject: Reimbursement Resolution for Bond Projects

**Background**

To be in compliance with IRS regulations concerning tax-exempt financing, all expenditures made with non-MSD bond funds and to be reimbursed from MSD bond funds must be properly identified and authorized. The proposed reimbursement resolution identifies major projects intended to be solely or substantially financed by bonds anticipated to be issued in FY2026. Board approval is required to obtain the tax-exemption of interest paid on MSD bonds by authorizing reimbursement from bond proceeds of the expenditures for these projects.

This resolution does not take the place of an annual budget or capital projects ordinance as mandated by North Carolina General Statutes required authorizing any expenditures irrespective of source of the funds. These projects have been or will be included in the District's annual budget process.

In addition to this current reimbursement resolution, additional resolutions may be submitted for other projects when their anticipated costs may be more accurately projected.

**Discussion**

\$50 million of bonds are planned to be issued in FY2026 and this reimbursement resolution is intended to preserve for the District the ability to issue the bonds as tax-exempt bonds and to reimburse itself from their proceeds for the temporary cash outlay made for the projects identified in the reimbursement resolutions.

Meeting Date: August 16, 2023  
Subject: Reimbursement Resolution for Bond Projects  
Page 2

**Discussion(continued)**

Engineering staff have identified several upcoming projects detailed on the attached exhibit, which could be reimbursed from the upcoming revenue bonds. Estimated reimbursable expenditures for these projects total \$11,213,000.

**Fiscal Impact**

Allows for reimbursement of project expenses with bond proceeds. This reimbursement resolution does not obligate the District to use bond proceeds for these projects, nor does it create an obligation for expenditure of the funds for the identified projects. Authorization for these project expenditures is provided by the annual budget ordinance or capital projects ordinance.

**Staff Recommendation**

Approval.

<u>Action Taken</u>			
Motion by:	to	<input type="checkbox"/> Approve	<input type="checkbox"/> Disapprove
Second by:		<input type="checkbox"/> Table	<input type="checkbox"/> Send to Committee
Other:			
Follow-up required:			
Person responsible:		Deadline:	

# REIMBURSEMENT RESOLUTION

RESOLUTION OF THE DISTRICT BOARD OF THE METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY, NORTH CAROLINA DECLARING ITS INTENTION TO REIMBURSE ITSELF FROM THE PROCEEDS OF ONE OR MORE TAX-EXEMPT FINANCINGS FOR CERTAIN EXPENDITURES MADE AND/OR TO BE MADE IN CONNECTION WITH THE ACQUISITION, CONSTRUCTION AND/OR EQUIPPING OF CERTAIN CAPITAL IMPROVEMENTS

WHEREAS, the Metropolitan Sewerage District of Buncombe County, North Carolina (the "Issuer") is a body politic and corporate organized and existing under the laws of the State of North Carolina; and

WHEREAS, the Issuer has paid, beginning June 16, 2023, and will pay, on and after the date hereof, certain expenditures (the "Expenditures") in connection with the acquisition, design and construction of the projects on the attached Exhibit (the "Projects"); and

WHEREAS, the District Board of the Issuer (the "Board") has determined that those monies previously advanced no more than 60 days prior to the date hereof and to be advanced on and after the date hereof to pay the Expenditures are available only for a temporary period and it is necessary to reimburse the Issuer for the Expenditures from the proceeds of one or more issues of tax-exempt bonds (the "Bonds");

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD AS FOLLOWS:

- Section 1. The Board hereby declares the Issuer's intent to reimburse the Issuer with the proceeds of the Bonds for the Expenditures with respect to the Project made on and after June 16, 2023 which date is no more than 60 days prior to the date hereof. The Issuer reasonably expects on the date hereof that it will reimburse the Expenditures with the proceeds of the Bonds.
- Section 2. Each Expenditure was and will be either (a) of a type properly chargeable to capital account under general federal income tax principles (determined in each case as of the date of the Expenditure), (b) a cost of issuance with respect to the Bonds, (c) a nonrecurring item that is not customarily payable from current revenues, or (d) a grant to a party that is not related to or an agent of the Issuer so long as such grant does not impose any obligation or condition (directly or indirectly) to repay any amount to or for the benefit of the Issuer.
- Section 3. The maximum principal amount of the Bonds expected to be issued for the Projects is \$11,213,000.
- Section 4. The Issuer will make a reimbursement allocation, which is a written allocation by the Issuer that evidences the Issuer's use of proceeds of the Bonds to reimburse an Expenditure, no later than 18 months after the later of the date on which the Expenditure is paid or the Projects are placed in service or abandoned, but in no event more than three years after the date on which the Expenditure is paid. The Issuer recognizes that exceptions are available for certain "preliminary expenditures," costs of issuance, certain de minimis amounts, expenditures by "small issuers" (based on the year of issuance and not the year of expenditure) and expenditures for construction projects of at least five years.
- Section 5. This resolution shall take effect immediately upon its passage.

PASSED AND ADOPTED this 16<sup>th</sup> day of August, 2023

---

M. Jerry VeHaun, Chairman of the Board

Attested to:

---

Jackie W. Bryson, Secretary/Treasurer

Metropolitan Sewerage District of Buncombe County

*Attachment to Reimbursement Resolution*

August 16, 2023

Project	Project #	Estimated Expenditures on and after June 16, 2023
Christian Creek Interceptor	2011110	\$ 2,305,000
Swannanoa Equalization Tank	2019046	1,000,000
Buchanan Avenue	2014023	1,277,000
Cherokee Road	2009132	800,000
Lining Contract #9	2017031	1,731,000
Int. Clarifier Eff. Trough Rehabilitation	2022024	850,000
Incinerator Rehabilitation	2022057	2,150,000
Weaverville Pump Station Replacement	2019080	<u>1,100,000</u>
		<u>\$ 11,213,000</u>

# Metropolitan Sewerage District of Buncombe County BOARD ACTION ITEM

**Meeting Date:** August 16, 2023  
**Submitted By:** Thomas E. Hartye, PE., General Manager  
**Prepared By:** W. Scott Powell, CLGFO, Director of Finance  
**Subject:** Consideration of Budget Amendment for Fleet Replacement

## **Background**

To be in compliance with North Carolina General Statutes, all expenditures must be included in the governing body's adopted annual balanced budget ordinance. In the event unforeseen expenditures occur which exceed the adopted amount, a budget amendment resolution must be approved by the governing body. The proposed budget amendment resolution identifies the nature of the expenditure as well as the source of funding.

## **Discussion**

In FY2022 & FY2023, the board approved the purchase of vehicles and heavy equipment during the budget process. Due to impact of COVID-19 on supply chains, the deliveries have been delayed. As such, staff recommends amending the Fleet and Heavy Equipment Fund in the amount of \$250,000. This amount will cover expenditures which were appropriated.

## **Staff Recommendation**

Staff recommends the approval of the attached Budget Amendment Resolution.

### **Action Taken**

Motion by:	to	Approve	Disapprove
Second by:		Table	Send to Committee
Other:			
Follow-up required:			
Person responsible:		Deadline:	

**BUDGET AMENDMENT RESOLUTION  
FOR THE  
METROPOLITAN SEWERAGE DISTRICT  
OF BUNCOMBE COUNTY, NORTH CAROLINA**

**WHEREAS**, the Metropolitan Sewerage District of Buncombe County, North Carolina (the "Issuer") is a body politic and corporate organized and existing under the laws of the State of North Carolina; and

**WHEREAS**, the General Manager and Finance Director recommend and the District Board now desires to amend the FY2023-FY2024 Fleet & Heavy Equipment Replacement fund outlined below.

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD AS FOLLOWS:**

Section 1. The Board hereby adopts the amendment to the Fleet & Heavy Equipment Replacement Fund listed below.

Equipment Expenditures	<u>\$250,000</u>
------------------------	------------------

It is estimated that the following revenues will be available to the Fleet & Heavy Equipment Replacement Fund:

Appropriated from Net Position	<u>\$250,000</u>
--------------------------------	------------------

Section 3. That this resolution shall be entered in the minutes of the District within five (5) days after its adoption, copies thereof are ordered to be filed with the Finance and Budget Officer and Secretary of the Board as required by G. S. 159-13(d).

**PASSED AND ADOPTED this 16<sup>th</sup> day of August, 2023**

\_\_\_\_\_  
M. Jerry VeHaun  
Chairman of the Board

Attested to:

\_\_\_\_\_  
Jackie W. Bryson, Secretary/Treasurer

# Metropolitan Sewerage District of Buncombe County

## BOARD INFORMATIONAL ITEM

Meeting Date: August 16, 2023  
 Submitted By: Thomas E. Hartye, PE., General Manager  
 Prepared By: W. Scott Powell, CLGFO, Director of Finance  
 Cheryl Rice, Accounting Manager  
 Subject: Cash Commitment/Investment Report-Month Ended June 30, 2023

### Background

Each month, staff presents to the Board an investment report for all monies in bank accounts and specific investment instruments. The total investments as of June 30, 2023 were \$86,378,594. The detailed listing of accounts is available upon request. The average rate of return for all investments is 3.437%. These investments comply with North Carolina General Statutes, Board written investment policies, and the District's Bond Order.

The attached investment report represents cash and cash equivalents as of June 30, 2023 do not reflect contractual commitments or encumbrances against said funds. Shown below are the total investments as of June 30, 2023 reduced by contractual commitments, bond funds, and District reserve funds. The balance available for future capital outlay is \$13,704,706.

Total Cash & Investments as of 06/30/2023		86,378,594
Less:		
FY24 O & M Expenditures approved June 14, 2023	(21,939,740)	
FY24 Construction Expenditures approved June 14, 2023	<u>(25,377,993)</u>	
		(47,317,733)
<b>Bond Restricted Funds</b>		
Bond Service (Funds held by trustee):		
Funds in Principal & Interest Accounts	(6,938,431)	
FY24 Principal & Interest Due	<u>(8,734,667)</u>	
		(15,673,098)
<b>District Reserve Funds</b>		
Fleet Replacement	(1,260,440)	
Pump Replacement	(217,313)	
WWTP Replacement	(372,459)	
Maintenance Reserve	<u>(1,238,132)</u>	
		(3,088,344)
<b>District Insurance Funds</b>		
General Liability	(683,681)	
Worker's Compensation	(577,141)	
Post-Retirement Benefit	(2,645,024)	
Self-Funded Employee Medical	<u>(2,688,867)</u>	
		<u>(6,594,713)</u>
Designated for Capital Outlay		<u><u>13,704,706</u></u>



Meeting Date: August 16, 2023

Subject: Cash Commitment/Investment Report-Month Ended June 30, 2023

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Staff Recommendation

None - Information Only.

Action Taken

Motion by:

to

Approve

Disapprove

Second by:

Table

Send to Committee

Other:

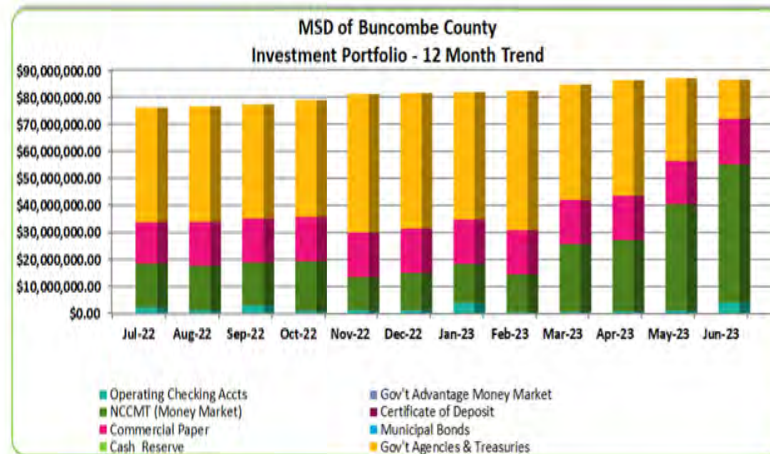
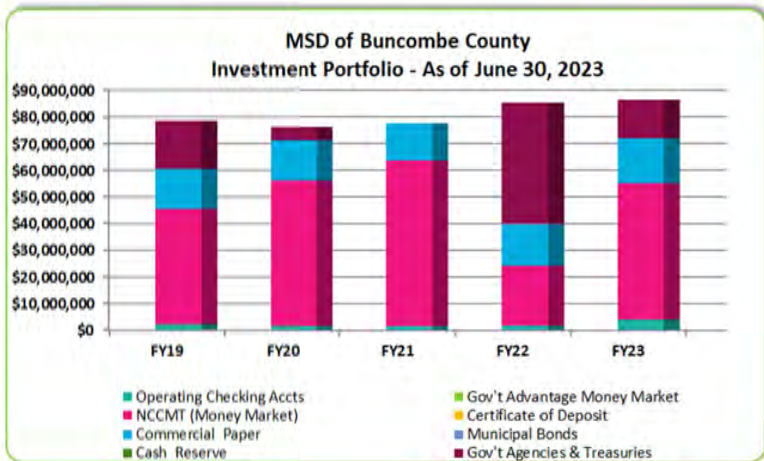
Follow-up required:

Person responsible:

Deadline:

	Operating Checking Accounts	Gov't Advantage Money Market	NCCMT (Money Market)	Certificate of Deposit	Commercial Paper	Municipal Bonds	Cash Reserve	Gov't Agencies & Treasuries	Total
Held with Bond Trustee	\$ -		\$ 6,938,431			\$ -	\$ -		\$ 6,938,431
Held by MSD	4,073,066	46,701	44,046,163	-	16,811,762	-		14,462,471	79,440,163
	\$ 4,073,066	\$ 46,701	\$ 50,984,594	\$ -	\$ 16,811,762	\$ -	\$ -	\$ 14,462,471	\$ 86,378,594

Investment Policy Asset Allocation	Maximum Percent	Actual Percent	
U.S. Government Treasuries,			No significant changes in the investment portfolio as to makeup or total amount.
Agencies and Instrumentalities	100%	16.74%	
Bankers' Acceptances	20%	0.00%	
Certificates of Deposit	100%	0.00%	
Commercial Paper	20%	19.47%	
Municipal Bonds	100%	0.00%	
North Carolina Capital Management Trust	100%	59.02%	
Checking Accounts:	100%		
Operating Checking Accounts		4.72%	
Gov't Advantage Money Market		0.05%	



Meeting Date: August 16, 2023

Subject: Cash Commitment/Investment Report-Month Ended June 30, 2023

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## Metropolitan Sewerage District Investment Managers' Report On June 30, 2023

### Summary of Asset Transactions

	Original		Interest
	Cost	Market	Receivable
Beginning Balance	\$ 79,019,418	\$ 79,019,418	\$ 335,059
Capital Contributed (Withdrawn)	(10,613,225)	(10,613,225)	
Realized Income	470,762	470,762	(313,008)
Unrealized/Accrued Income		(81,881)	66,429
Ending Balance	\$ 68,876,955	\$ 68,795,075	\$ 88,480

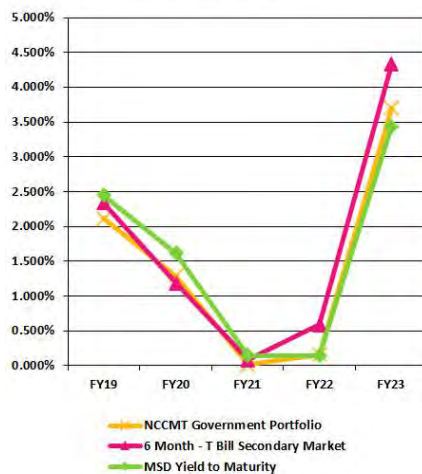
### Value and Income by Maturity

	Original Cost	Income
Cash Equivalents <91 Days	\$ 54,286,867	\$ 112,159
Securities/CD's 91 to 365 Days	9,548,853	19,728
Securities/CD's > 1 Year	5,041,236	10,415
	\$ 68,876,955	\$ 142,303

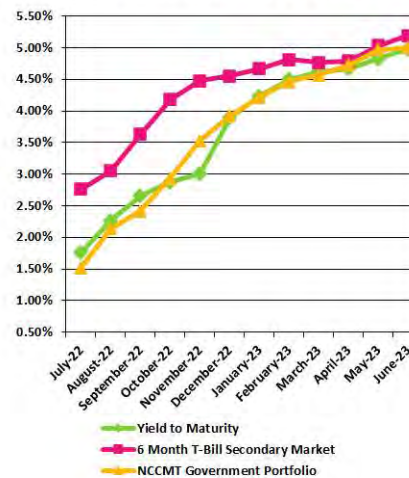
### Month End Portfolio Information

Weighted Average Maturity	82
Yield to Maturity	4.98%
6 Month T-Bill Secondary Market	5.19%
NCCMT Government Portfolio	5.00%

Metropolitan Sewerage District  
Annual Yield Comparison



Metropolitan Sewerage District  
Yield Comparison - June 30, 2023

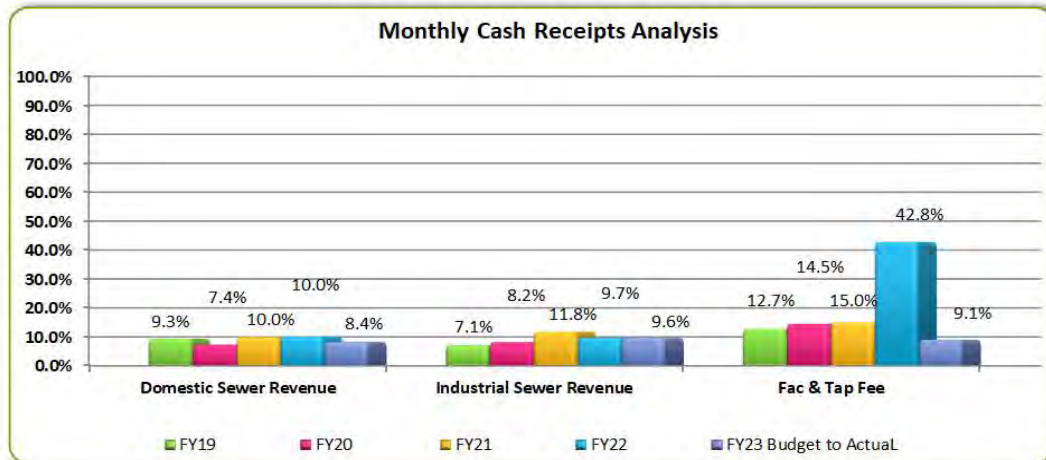


Meeting Date: August 16, 2023

Subject: Cash Commitment/Investment Report-Month Ended June 30, 2023

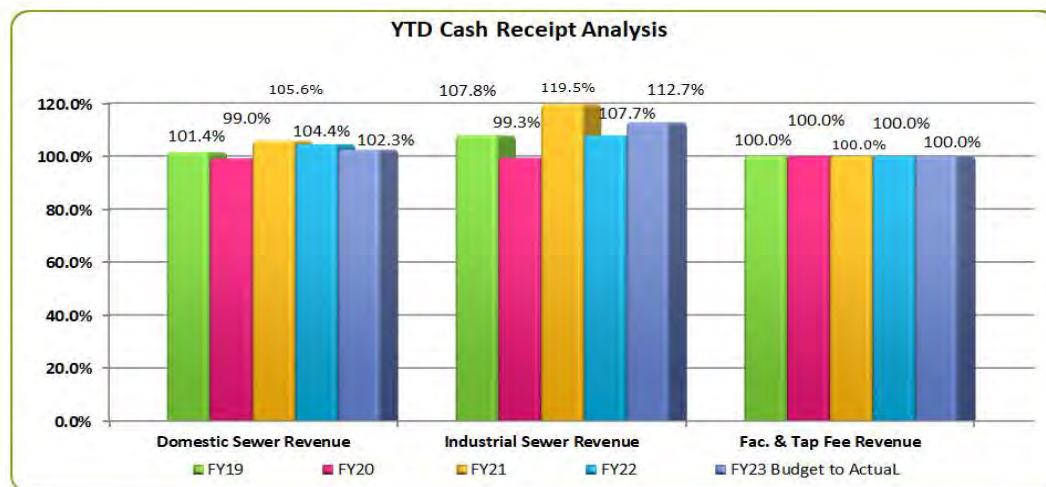
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### Metropolitan Sewerage District Analysis of Cash Receipts As of June 30, 2023



#### Monthly Cash Receipts Analysis:

- \* Monthly domestic sewer revenue is considered reasonable based on timing of cash receipts in their respective fiscal periods.
- \* Monthly industrial sewer revenue is reasonable based on historical trends.
- \* Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap fee revenue reasonable.



#### YTD Actual Revenue Analysis:

- \* YTD domestic sewer revenue is considered reasonable based on historical trends.
- \* YTD industrial sewer revenue is reasonable based on historical trends.
- \* Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap fee revenue reasonable.

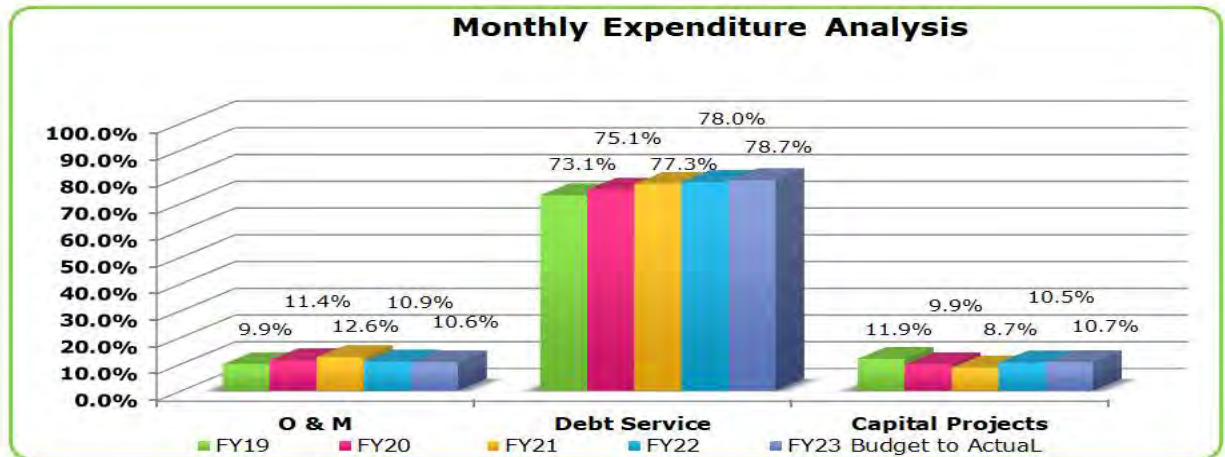


Meeting Date: August 16, 2023

Subject: Cash Commitment/Investment Report-Month Ended June 30, 2023

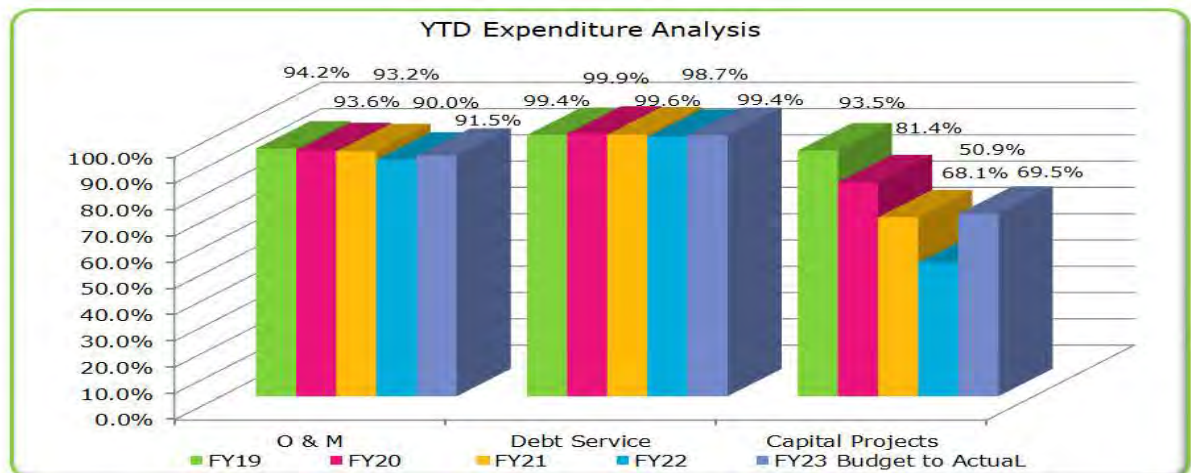
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### Metropolitan Sewerage District Analysis of Expenditures As of June 30, 2023



#### Monthly Expenditure Analysis:

- \* Monthly O&M expenditures are considered reasonable based on historical trends and timing of expenditures in the current year.
- \* Due to the nature of the variable rate bond market, monthly expenditures can vary year to year. Based on current variable interest rates, monthly debt service expenditures are considered reasonable.
- \* Due to nature and timing of capital projects, monthly expenditures can vary from year to year. Based on the current outstanding capital projects, monthly capital project expenditures are considered reasonable.



#### YTD Expenditure Analysis:

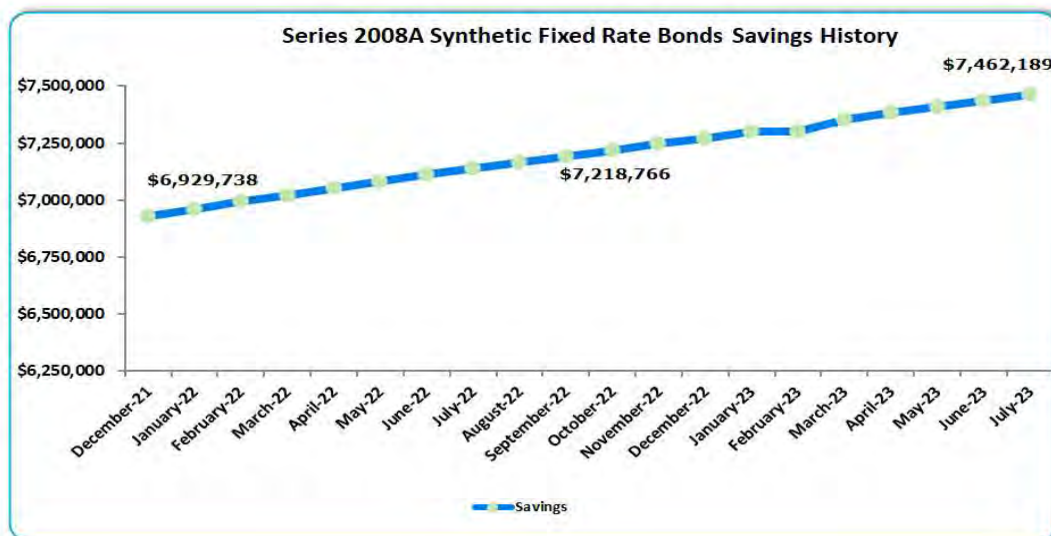
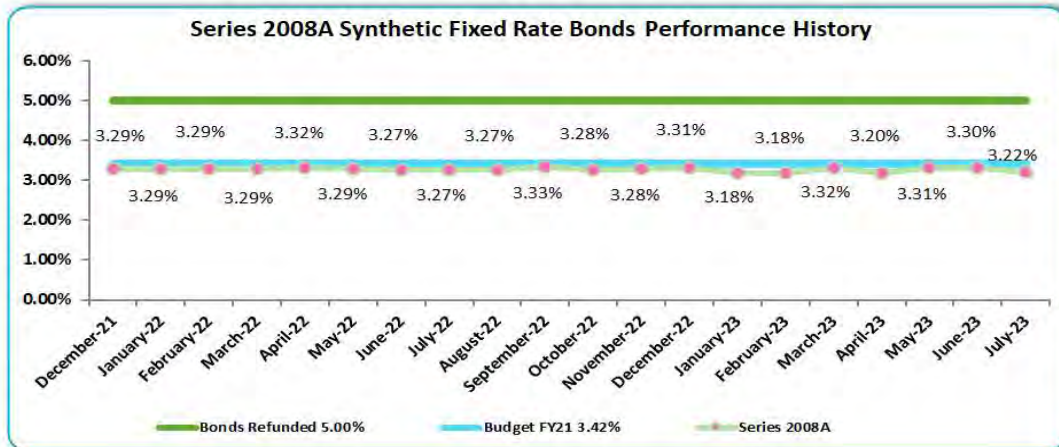
- \* YTD O&M expenditures are considered reasonable based on historical trends.
- \* Due to the nature of the variable rate bond market, YTD expenditures can vary year to year. Based on current variable interest rates, YTD debt service expenditures are considered reasonable.
- \* Due to nature and timing of capital projects, YTD expenditures can vary from year to year. Based on the current outstanding capital projects, YTD capital project expenditures are considered reasonable.

Meeting Date: August 16, 2023

Subject: Cash Commitment/Investment Report-Month Ended June 30, 2023

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### Metropolitan Sewerage District Variable Debt Service Report As of July 31, 2023



**Series 2008A:**

- \* Savings to date on the Series 2008A Synthetic Fixed Rate Bonds is \$7,462,189 as compared to 4/1 fixed rate of 4.85%.
- \* Assuming the rate on the Series 2008A Bonds continues at the current all-in rate of 3.7210%, MSD will achieve cash savings of \$4,670,000 over the life of the bonds.
- \* MSD would pay \$99,753 to terminate the existing Bank of America Swap Agreement.

# **STATUS REPORTS**

**MSD System Services In-House Construction**

**FY 2023-2024**

<b>PROJECT NAME</b>	<b>LOCATION</b>	<b>ZIP CODE</b>	<b>ESTIMATED FOOTAGE</b>	<b>ESTIMATED PROJECT DATES</b>	<b>WO#</b>	<b>CREW</b>	<b>COMPLETION DATE</b>	<b>ACTUAL FOOTAGE</b>	<b>NOTES</b>
573 Merrimon Ave Construction Rehabilitation	Asheville	28804	120	7/27/2023	297830	Cantrell	7/27/2023	120	Complete
Briarcliff Dr at Oakwilde Dr Construction Rehab Ph. 2	S. Asheville	28803	257	7/31/23 - 8/4/23	285342	McDevitt			construction just underway
781 Airport Road IRS Rehabilitation	Arden	28704	359	8/4/23 - 8/25/23	281532	Matthews			Ready for construction
Independence Boulevard IRS Rehabilitation	E. Asheville	28805	318	8/4/23 - 8/25/23	287247	Matthews			Ready for construction
96 Lookout Road Sewer Rehabilitation	Woodfin	28804	100	8/28/23 - 9/8/23	292101	McDevitt			Ready for Construction
Onterora Blvd @ Cleveland Avenue	Asheville	28803	157	FY 23/24	292512	McDevitt			Ready for construction
Grindstaff Dr @ McDowell St	Asheville	28803	603	FY 23-24	284606	McDevitt			Ready for construction
135 Aurora Drive Sewer Rehabilitation	Asheville	28803	1183	FY 23/24	28731	McDevitt			Ready for Construction
Baker Place @ Carrier Street Sewer Rehabilitation	Asheville	28806	1300	FY 22-24	284574	McDevitt			Ready for construction
6 Cottage Street Sewer Rehabilitation	Woodfin	28748	250	FY 23/24	287819	McDevitt			Ready for Construction
Old Fairview Rd @ Willington Road	Asheville	28803	732	FY 23/24	276005	McDevitt			Ready for construction
44 Galax Sewer Rehab	Asheville	28806	294	FY 23/24	280827	McDevitt			Ready for Construction
Naples PS Elimination and Gravity Conversion Ph. 2	Cane Creek	28760	422	FY 23/24	285603	McDevitt			Ready for construction
Norwood Ave Sewer Rehabilitation	Asheville	28804	1022	FY 23/24	275810	McDevitt			Ready for construction
Virginia Ave @ Lufty Ave	Asheville	28806	1400	FY 23/24	441499	McDevitt			Ready for construction
Maple Springs Road at Knauth Rd Rehabilitation	Asheville	28805	893	FY 23/24	275867	TBA			In ROW
28 Woodward Avenue Sewer Rehabilitation	Asheville	28804	660	FY 23/24	249386	TBA			In Design
350 Old Haw Creek Road Sewer Rehabilitation	Asheville	28805	1537	FY 23/24	47802	TBA			In Design
60 Kirkman Road Sewer Replacement	Asheville	28805	317	FY 23/24	291473	TBA			In Design
4 Dell Street	Asheville	28806	100	FY 23/24	288910	TBA			In Design
11 Shenandoah Rd Sewer Rehabilitation	Asheville	28805	1600	FY 23/24	275804	TBA			In Design
10 Balsam Rd Sewer Rehabilitation	Ridgecrest	28770	410	FY 23/24	275803	TBA			Preliminary Engineering
Cherokee Road at Mayflower Dr Sewer Rehabilitation	Swannanoa	28804	649	FY 23/24	275866	TBA			Preliminary Engineering
48 Clarendon Road Sewer Rehabilitation	Asheville	28806	500	FY 23/24	258562	TBA			Preliminary Engineering
55 Congress Street Sewer Rehabilitation	Asheville	28801	823	FY 23/24	247631	TBA			Preliminary Engineering
Carver Avenue @ Owenby Lane	Black Mountain	28711	500	FY 23/24	292540	TBA			Preliminary Engineering
15 Haith Drive	Asheville	28801	204	FY 23/24	285381	TBA			Preliminary Engineering
Applewood Drive @ New Haw Creek Road Sewer Rehab	Asheville	28805	360	FY 23/24	291537	TBA			Preliminary Engineering
72 Mimosa Dr Sewer Rehabilitation	Asheville	28804	440	FY 23/24	207261	TBA			Preliminary Engineering
Wellington Street	Asheville	28806	865	FY 23/24	280245	TBA			Preliminary Engineering
Rhodes Street at Union Street	Woodfin	28804	230	FY 23/24	284578	TBA			Preliminary Engineering





## CONSTRUCTION TOTALS BY DATE COMPLETED - Monthly

From 7/1/2022 to 6/30/2023

	Dig Ups	Emergency Dig Ups	Dig Up ML Ftg	Dig Up SL Ftg	Manhole Repairs	Taps Installed	ROW Ftg	IRS Rehab Ftg *	Const Rehab Ftg *	D-R Rehab Ftg *	Manhole Installs	Bursting Rehab Ftg *	Total Rehab Ftg *
July 2022	28	6	63	433	17	10	25,839	0	435	1233	7	30	1698
August 2022	30	6	70	904	14	27	14,647	0	0	1040	6	0	1040
September 2022	20	7	32	494	12	17	6,291	0	0	435	3	0	435
October 2022	15	5	46	507	16	29	3,940	0	350	592	7	0	942
November 2022	10	5	27	348	17	19	26,106	0	0	627	4	0	627
December 2022	12	9	31	320	10	50	0	0	223	383	4	0	606
January 2023	39	9	49	605	17	15	0	0	40	434	3	0	474
February 2023	39	12	90	719	15	18	720	0	0	987	11	0	987
March 2023	31	10	95	881	17	39	60	0	351	67	1	0	418
April 2023	20	12	123	643	13	22	4,000	0	0	630	2	0	630
May 2023	30	12	155	457	14	9	5,000	317	0	1142	7	0	1459
June 2023	33	9	83	642	11	18	31,792	182	0	201	0	0	383
<b>Grand Totals</b>	<b>307</b>	<b>102</b>	<b>863</b>	<b>6,953</b>	<b>173</b>	<b>273</b>	<b>118,395</b>	<b>499</b>	<b>1399</b>	<b>7771</b>	<b>55</b>	<b>30</b>	<b>9699</b>

\* Used to calculate Total Rehab Footage



## PIPELINE MAINTENANCE TOTALS BY DATE COMPLETED - Monthly

July 01, 2022 to June 30, 2023

	Main Line Wash Footage	Service Line Wash Footage	Rod Line Footage	Cleaned Footage	CCTV Footage	Smoke Footage	SL-RAT Footage
<b>2022</b>							
July	100,862	4,736	1,390	102,252	14,226	50	1,886
August	95,363	1,583	0	95,363	29,701	0	6,165
September	51,254	1,193	1,816	53,070	21,909	0	5,747
October	60,901	1,089	5,221	66,122	24,032	493	10,894
November	15,578	1,676	1,365	16,943	17,617	450	16,220
December	30,535	1,598	2,136	32,671	8,109	0	26,472
<b>2023</b>							
January	46,850	2,797	3,209	50,059	13,499	0	25,849
February	64,673	1,804	4,788	69,461	14,134	225	21,635
March	120,867	1,255	3,216	124,083	34,382	2,835	25,210
April	73,685	1,388	1,890	75,575	16,556	0	2,341
May	122,550	1,437	4,734	127,284	25,538	805	7,822
June	115,059	4,930	3,375	118,434	22,921	0	23,330
<b>Grand Total:</b>	<b>898,177</b>	<b>25,486</b>	<b>33,140</b>	<b>931,317</b>	<b>242,624</b>	<b>4,858</b>	<b>173,571</b>
<b>Avg Per Month:</b>	<b>74,848</b>	<b>2,124</b>	<b>2,762</b>	<b>77,610</b>	<b>20,219</b>	<b>405</b>	<b>14,464</b>



## CUSTOMER SERVICE REQUESTS

### Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE RESPONSE TIME	AVERAGE TIME SPENT
<b>DAY 1ST RESPONDER</b>				
	July, 2022	115	28	34
	August, 2022	83	30	37
	September, 2022	90	30	40
	October, 2022	83	29	36
	November, 2022	85	28	32
	December, 2022	71	27	50
	January, 2023	129	28	31
	February, 2023	152	28	30
	March, 2023	152	29	32
	April, 2023	108	31	35
	May, 2023	103	26	36
	June, 2023	96	25	35
		<b>1,267</b>	<b>28</b>	<b>35</b>
<b>NIGHT 1ST RESPONDER</b>				
	July, 2022	41	25	19
	August, 2022	41	26	24
	September, 2022	35	35	26
	October, 2022	28	28	34
	November, 2022	34	41	38
	December, 2022	33	33	34
	January, 2023	69	33	22
	February, 2023	43	30	23
	March, 2023	44	33	28
	April, 2023	41	30	27
	May, 2023	21	33	26
	June, 2023	30	31	26
		<b>460</b>	<b>31</b>	<b>26</b>
<b>ON-CALL CREW *</b>				
	July, 2022	29	40	39
	August, 2022	29	29	60

\* On-Call Crew Hours: 8:00pm-7:30am (Jul. - Oct.) 11:30pm-7:30am (from Nov. onward) Monday-Friday, Weekends, and Holidays



## CUSTOMER SERVICE REQUESTS Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE RESPONSE TIME	AVERAGE TIME SPENT
<b>ON-CALL CREW *</b>				
	September, 2022	27	56	67
	October, 2022	35	62	58
	November, 2022	28	49	51
	December, 2022	48	60	53
	January, 2023	60	67	33
	February, 2023	35	52	38
	March, 2023	34	55	32
	April, 2023	33	43	51
	May, 2023	31	67	50
	June, 2023	24	67	37
		<b>413</b>	<b>55</b>	<b>46</b>
<b>Grand Totals:</b>		<b>2,140</b>	<b>34</b>	<b>35</b>

\* On-Call Crew Hours: 8:00pm-7:30am (Jul. - Oct.) 11:30pm-7:30am (from Nov. onward) Monday-Friday, Weekends, and Holidays

**CAPITAL IMPROVEMENT PROGRAM**

**STATUS REPORT SUMMARY**

**August 9, 2023**

PROJECT	LOCATION OF PROJECT	CONTRACTOR	AWARD DATE	NOTICE TO PROCEED	ESTIMATED COMPLETION DATE	*CONTRACT AMOUNT	*COMPLETION STATUS (WORK)	COMMENTS
CHRISTIAN CREEK INTERCEPTOR	Buncombe County	Buckeye Bridge LLC	12/15/2021	3/14/2022	9/29/2023	\$6,663,329.70	88%	Construction is progressing.
ERWIN HILLS ROAD @ HIGH SCHOOL	Asheville 28806	Burrell's Utilities & Excavating, Inc.	7/24/2023	TBD	TBD	\$61,285.00	0%	Preconstruction meeting was held on August 8th.
LINING CONTRACT NO. 9	Buncombe County	Terry Brothers Construction Co.	1/18/2023	3/20/2023	3/14/2024	\$2,262,890.00	25%	Pipe lining underway. Manhole rehabilitation scheduled to start this week.
WRF - EQUIPMENT STORAGE FACILITY	Woodfin	Cooper Construction Company	10/20/2021	3/28/2022	7/31/2023	\$3,117,685.18	100%	Project is complete and in close out.
WRF - RBC SLIDE GATE REPLACEMENT PHASE 2	Woodfin	Harper Corp.	11/16/2022	3/27/2023	11/22/2023	\$624,000.00	80%	Gate replacements underway.

**\*Updated to reflect approved Change Orders and Time Extensions**

## Planning & Development Project Status Report

Active Construction Projects Sorted by Work Location and Project Number

August 2, 2023

No.	Project Name	Project Number	Work Location	Zip Code	Units	LF	Pre-Construction Conference Date	Comments
1	First Baptist Relocation	2015032	Asheville	28801	Comm.	333	7/21/2015	Final Inspection complete, awaiting close-out docs
2	Hounds Ear (Mears Ave Cottages)	2016123	Asheville	28806	18	402	8/18/2017	Pre-con held, construction not yet started
3	Ashcroft Ph. 2	2016229	Asheville	28806	40	2,450	2/20/2018	On hold
4	RADTIP	2017052	Asheville	28801	0	919	2/13/2018	Final Inspection complete, awaiting close-out docs
5	Pineview Subdivision	2018185	Asheville	28806	4	91	5/30/2023	Final Inspection complete, awaiting close-out docs
6	Lake Julian Crossing	2018271	Asheville	28704	Comm.	1,134	11/30/2022	Waiting on Testing
7	Timber Hollow Subdivision	2019049	Asheville	28805	18	525	7/28/2020	On hold
8	Millbrook Cottages	2019066	Asheville	28806	7	322	2/15/2022	Pre-con held, construction not yet started
9	3927 Sweeten Creek Rd (Rumi Way)	2019076	Asheville	28704	16	590	2/1/2023	Installing
10	UNC-A Edgewood Road Parking Lot	2019078	Asheville	28801	Comm.	373	7/19/2019	Final Inspection complete, awaiting close-out docs
11	Julian Woods Retirement Relocation	2019112	Asheville	28704	Comm.	1,083	3/17/2022	Installing
12	Ironwood Sewer Relocation	2019123	Asheville	28801	554	227	4/23/2021	Waiting on Testing
13	Burton Street	2021048	Asheville	28806	4	64	10/29/2021	Pre-con held, construction not yet started
14	Ingles #31 - Sherwin Williams	2021049	Asheville	28806	Comm.	200	5/23/2023	Waiting on Final Inspection
15	Beloved Asheville	2021070	Asheville	28805	12	272	4/29/2022	Waiting on Testing
16	Busbee Ph. 1	2021245	Asheville	28803	210	4,245	4/26/2022	Installing
17	MAHEC Parking Deck	2021083	Asheville	28803	Comm.	550	6/1/2022	Waiting on Final Inspection
18	Old Home Road Subdivision	2021094	Asheville	28804	21	1,790	5/4/2022	Installing
19	Woodfield (RAD Lofts)	2021063	Asheville	28801	235	403	6/8/2022	Installing
20	Reed Creek Mixed Use	2022008	Asheville	28801	49	295	2/23/2023	Final Inspection complete, awaiting close-out docs
21	Oak Hill Development	2022065	Asheville	288806	10	313	3/23/2023	Pre-con held, construction not yet started
22	Crossroads Community Ph1 Apartments	2022068	Asheville	28806	660	595	8/25/2022	Final Inspection complete, awaiting close-out docs
23	Reddick Road	2021108	Asheville	28805	5	507	9/2/2022	Pre-con held, construction not yet started
24	Randolph Avenue Commercial	2021149	Asheville	28806	Comm.	650	6/30/2022	Final Inspection complete, awaiting close-out docs
25	The Ramble - Block K	2022015	Asheville	28803	38	4,516	1/25/2023	Installing
26	Long Shoals Apartments (The Meridian)	2022039	Asheville	28704	3	400	6/14/2023	Installing
27	Habitat New Heights Phase 2	2022042	Asheville	28806	60	1,810	6/9/2023	Installing
28	Friendly Hollow Way	2022064	Asheville	28803	5	166	1/25/2023	Final Inspection complete, awaiting close-out docs
29	16/18 Spring Drive	2022125	Asheville	28806	2	70	4/18/2023	Final Inspection complete, awaiting close-out docs
30	Holiday Villa	2022172	Asheville	28704	7	355	2/15/2023	Final Inspection complete, awaiting close-out docs
31	808 Montreat Road	2015126	Black Mountain	28711	4	371	4/18/2017	Final Inspection complete, awaiting close-out docs
32	Givens Highland Farms-Cottage Development	2018272	Black Mountain	28711	16	1,355	9/13/2019	Final Inspection complete, awaiting close-out docs
33	Sweet Birch Lane Phase 3	2020151	Black Mountain	28711	20	800	6/30/2021	Waiting on Final Inspection
34	Old Toll Road Subdivision	2020182	Black Mountain	28711	14	637	8/17/2021	Waiting on Final Inspection
35	Tudor Croft - Phase 2D	2018004	Black Mountain	28711	5	224	6/8/2022	Waiting on Final Inspection
36	NC DOT I-5504 NC 191/I-26 Interchange	2016132	Buncombe Co.	28806	0	355	10/23/2017	Installing
37	Liberty Oaks Ph. 1B	2018063	Buncombe Co.	28715	24	615	11/5/2021	Final Inspection complete, awaiting close-out docs
38	Upper Grassy Branch Road	2018087	Buncombe Co.	28805	6	250	8/31/2018	On Hold
39	Rockdale Subdivision	2018145	Buncombe Co.	28778	9	630	3/17/2020	Final Inspection complete, awaiting close-out docs
40	Roberson Relocation	2019037	Buncombe Co.	28715	Comm.	200	4/24/2020	Pre-con held, construction not yet started
41	The Ramble - Tea House Ridge	2019159	Buncombe Co.	28803	22	8,050	9/21/2021	Waiting on Final Inspection
42	841 Charlotte Hwy	2019222	Buncombe Co.	28730	Comm.	110	4/20/2021	Pre-con held, construction not yet started
43	Creekside Cottages	2019255	Buncombe Co.	28704	6	400	3/12/2015	Phase 2 Construction Not started
44	Fisher Mill Road	2020015	Buncombe Co.	28704	3	380	10/20/2020	Final Inspection complete, awaiting close-out docs
45	Fountain Park Subdivision - Ph. 2	2020026	Buncombe Co.	28806	120	4,611	7/12/2019	Final Inspection complete, awaiting close-out docs
46	CMH Avery Creek	2020080	Buncombe Co.	28704	10	580	2/8/2022	Final Inspection complete, awaiting close-out docs
47	Town Mountain Preserve Ph. 2	2020197	Buncombe Co.	28804	6	1,210	5/28/2021	Waiting on final inspection
48	Rockberry Apartments	2021116	Buncombe Co.	28704	420	2,420	6/13/2023	Pre-con held, construction not yet started
49	Village at Bradley Branch Ph. 4B	2021120	Buncombe Co.	28704	16	393	11/2/2021	Final Inspection complete, awaiting close-out docs
50	Biltmore Terrace Development	2021208	Buncombe Co.	28803	31	400	6/14/2023	Waiting on Testing
51	Hawthorne at Holbrook	2021229	Buncombe Co.	28806	350	1,876	6/20/2023	Installing
52	Belle Meadow Phase I	2021235	Buncombe Co.	28806	74	1,730	6/9/2023	Pre-con held, construction not yet started
53	Schwan's Extension	2021261	Buncombe Co.	28715	Comm.	145	4/27/2023	Waiting on final inspection
54	Asheville West Subdivision Ph. 2	2022032	Buncombe Co.	28806	50	1,570	7/26/2023	Pre-con held, construction not yet started
55	Brooks Cove Road	2022045	Buncombe Co.	28715	141	2,357	5/3/2023	Installing
56	Creekside Community (2177 Brevard Rd)	2022046	Buncombe Co.	28704	502	3,267	7/18/2023	Pre-con held, construction not yet started
57	Clayton Crossing	2022089	Buncombe Co.	28704	70	2,420	6/13/2023	Pre-con held, construction not yet started
58	Collett Industrial (Banner Farm)	2020108	Cane Creek	28759	Comm.	255	11/20/2020	Final Inspection complete, awaiting close-out docs
59	Tap Root Ph. 1	2020024	Fletcher	28732	198	8,397	4/29/2022	Installing
60	Fernleaf Charter School	2020177	Fletcher	28732	Comm.	780	3/25/2022	Final Inspection complete, awaiting close-out docs
61	Suncap Warehouse	2021059	Fletcher	28732	Comm.	803	12/3/2021	Final Inspection complete, awaiting close-out docs
62	Taproot Subdivision Phase 2A	2021161	Fletcher	28732	151	2,462	6/6/2023	Waiting on Testing
63	Heritage Park	2021275	Fletcher	28732	63	2,653	9/6/2022	Final Inspection complete, awaiting close-out docs
64	Mills River Townhomes (Jeffress Road)	2021253	Mills River	28759	150	3,267	6/6/2023	Installing
65	Palisades at Reems Creek	2020066	Weaverville	28787	132	1,020	3/24/2022	Waiting on Final Inspection
66	Union Chapel (Views at Reems Creek)	2021030	Weaverville	28787	11	650	8/2/2022	Final Inspection complete, awaiting close-out docs
67	Stoney Knob Commercial	2021102	Weaverville	28787	3	273	1/26/2023	Final Inspection complete, awaiting close-out docs
68	18 Wildwood Park Sewer Relocation	2021129	Weaverville	28787	1	147	2/22/2022	Final Inspection complete, awaiting close-out docs
69	Crest Mountain Phase 3B	2013041	Woodfin	28806	69	1,329	10/15/2013	Final Inspection complete, awaiting close-out docs
70	Brown Avenue aka Wolf Tract	2017029	Woodfin	28806	6	219	6/4/2021	Waiting on Paving
71	Serenity Townhomes	2020037	Woodfin	28804	8	480	7/14/2020	Final Inspection complete, awaiting close-out docs
72	Weaverville Road Subdivision	2020123	Woodfin	28804	4	600	4/6/2021	On hold
73	Rydele Heights	2021098	Woodfin	28804	73	1,880	3/1/2023	Installing
			<b>TOTAL</b>		4,766	88,221		