

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT**  
**JULY 15, 2015**

**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 p.m., Wednesday, July 15, 2015. Chairman VeHaun presided with the following members present: Ashley, Bryson, Creighton, Kelly, Manheimer, Pelly, Root, Watts and Wisler. Mr. Belcher and Ms. Frost were absent.

Others present were: Thomas E. Hartye, General Manager, William Clarke, General Counsel, Gregg Wiggins and Marcus Jones with Henderson County, Brian Thorsvold with HDR, Patty Beaver with CIBO, Forrest Westall with McGill Associates, P.E., and MSD Staff, Ed Bradford, Peter Weed, Scott Powell, Jim Hemphill, Ken Stines, Mike Stamey, Matthew Walter, Hunter Carson, Julie Willingham, and Sondra Honeycutt.

**2. Election of Officers:**

Mr. VeHaun called on Mr. Clarke to preside over the election of Chairman. Mr. Clarke called for nominations for Chairman of the MSD Board. Mr. Kelly nominated Mr. VeHaun as Chairman. Ms. Bryson seconded the nomination. Mr. Clarke called for further nominations. With no further nominations, Mr. Clarke called for a motion to close the nominations. Mr. Watts moved. Mr. Kelly seconded the motion. Voice vote in favor of the motion was unanimous. Mr. Clarke called for a vote on the election of Mr. VeHaun as Chairman of the MSD Board for 2015-2016. Voice vote in favor of Mr. VeHaun was unanimous.

Mr. VeHaun called for nominations for Vice Chairman of the MSD Board. Mr. Watts nominated Mr. Kelly as Vice Chairman. Mr. Pelly seconded the nomination. With no further nominations, Mr. Root moved the nominations be closed. Ms. Manheimer seconded the motion. Voice vote in favor of the motion was unanimous. Mr. VeHaun called for a vote on the election of Mr. Kelly as Vice Chairman of the Board for 2015-2016. Mr. Pelly moved. Ms. Wisler seconded the motion. Voice vote in favor of Mr. Kelly was unanimous.

Mr. VeHaun appointed Ms. Bryson as Secretary/Treasurer of the MSD Board for 2015-2016. Mr. Watts moved to approve the appointment of Ms. Bryson. Mr. Kelly seconded the motion. Voice vote in favor of the motion was unanimous.

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

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

**4. Approval of Minutes of the June 10, 2015 Board Meeting:**

Mr. VeHaun asked if there were any changes to the Minutes of the June 10, 2015 Board Meeting. With no changes, Mr. Ashley moved for approval of the minutes as presented. Mr. Watts seconded the motion. Voice vote in favor of the motion was unanimous.

**5. Discussion and Adjustment of Agenda:**

None

**6. Informal Discussion and Public Comment:**

Mr. VeHaun welcomed Mr. Wiggins and Mr. Jones with Henderson County, and Mr. Thorsvold with HDR. There was no public comment.

**7. Report of General Manager:**

Mr. Hartye presented a letter from the Western North Carolina Regional Air Quality Agency recognizing MSD for compliance with all the air quality rules and regulations for 2014. He expressed his congratulations and thanks to Plant Operations and Maintenance staff.

Mr. Hartye reported that Todd Short of 56 Grindstaff Drive called to praise James Beaver and Wayne Rice for “being cordial, professional and very thorough.”

Mr. Hartye presented an e-mail from Jeff and Leslie Treadway expressing appreciation for “what we know to be true about Roy Lytle. We are both grateful to have him as a part of the MSD family and sorry for his loss. Please keep Roy and his family in your thoughts and prayers.” Also, he asked the Board to keep the family of Herman Shelton in their prayers as well. He stated Herman was a retired employee of MSD after 34 years; was larger than life; was the man you would want to see out in the field on difficult jobs, and will be missed by all.

Mr. Hartye reported MSD received a call from Vicky Currence of 38 Woodcrest Road to express appreciation for Lloyd Anders and Jamie Foxx for “being very responsive to her request and to going above and beyond.”

Mr. Hartye reported the Personnel Committee will meet July 21<sup>st</sup> at 9 am. An updated Goals & Objectives, along with an Evaluation Form will be mailed prior to the meeting. An employee appreciation lunch will be held behind Plant Maintenance at 11:30 am July 23<sup>rd</sup>. The July ROW Committee Meeting is cancelled. The next ROW is scheduled for August 26<sup>th</sup> at 9 am. The Planning Committee will meet July 30<sup>th</sup> at 9 am to consider the Accessory Dwelling Units (ADU’s) and associated fees. Mr. Hartye asked the Board to let him know of any other policy issues that they would like to discuss or to be informed about. The next regular Board Meeting will be held August 19<sup>th</sup> at 2 pm. Mr. VeHaun encouraged Board Members to attend the employee appreciation luncheon.

**8. Consolidated Motion Agenda:**

**a. Consideration of Bids – Melody Circle Sanitary Sewer Replacement Project:**

Mr. Hartye reported the project is located in Swannanoa, near US70 and is the largest dig & replace project for FY15-16. The project is comprised of 4,583 LF of 8-inch DIP. The contract was advertised and the following bids were received on June 23, 2015: Buckeye Bridge, LLC with a total bid of \$1,465,086.70; Patton Construction with a total bid of \$1,283,660.00; Huntley Construction with a total bid of \$1,130,440.20; Thomas Construction Co., with a total bid of \$1,126,285.26, and Terry Brothers Construction Co., Inc. with a total bid of \$954,087.50. The apparent low bidder is Terry Brothers Construction Co. who has completed numerous MSD sewer replacement projects and their work quality has been excellent to date. The FY15-16 Construction Budget for this project is \$1,125,000.00. Staff recommends award of this contract to Terry Brothers Construction Co., Inc. in the amount of \$954,087.50, subject to review and approval by District Counsel.

**b. Consideration of Design Contract – Plant Headworks Improvement Project:**

Mr. Hartye reported the District’s recently completed Facility Plan Update provides recommendations for improvements at the treatment plant over a 20-year planning horizon. After extensive research of various options, the plan recommends near-term Headworks improvements that include a new grit removal process, fine screening system, and storage for peak flows (using existing decommissioned

digesters). The total estimated project cost is approximately \$7.5 million. In accordance with NCGS 143-64.31 the District advertised a Request for Qualifications for the design phase, and HDR responded to this advertisement. HDR was previously selected for the completion of the Facilities Plan Update after careful review and consideration of the capabilities, experience, and staffing of three major engineering consultants. Their performance and attention to detail was excellent on that project. Given their excellent performance on the previous project and their detailed knowledge of the Headworks process, staff believes that HDR is highly qualified for this first project. Mr. Hartye presented the Scope of Services developed by MSD and HDR, which gives the timeline and fees. After receiving an initial proposal for HDR's engineering design fee, staff negotiated a reduced fee in the amount of \$655,512.00. The FY15-16 design budget for the project is \$656,000.00. Staff recommends the District enter into an engineering design contract with HDR in the amount of \$655,512.00, subject to review and approval by District Counsel.

**c. Consideration of Reimbursement Agreement – Reems Creek Master Plan Interceptor Phase 2:**

Mr. Hartye reported this project is for the installation of a new sanitary sewer interceptor along Reems Creek. Windsor Built Homes, Inc. (Windsor) proposes to install the new 16-inch line in accordance with the District Collection System Master Plan. The interceptor will extend 712 linear feet upstream to serve a 22 acre tract owned by Windsor. The construction cost estimate for the 16-inch line is \$211,846, which Windsor will fund. Under MSD's Additional Capacity Reimbursement polity, a developer who is required to construct a larger line than is necessary for their own development is eligible for reimbursement of the increased construction cost, which is \$22,900.00. In addition, for new lines 12-inches and larger, which will serve upstream properties in the future; the District will design the line and acquire necessary rights-of-way. The design and rights of way for this project have already been completed by MSD. Staff recommends the District enter into a reimbursement agreement with Windsor Built Homes, Inc. in the amount of \$22,900.00, subject to review and approval by District Counsel.

**d. Consideration of Developer Constructed Sewer Extensions: 51 Gash Farm Road; New Belgium Distribution Center, and Palisades of Asheville:**

Mr. Hartye reported the 51 Gash Farm Road Sewer Extension project is located inside the District boundary off Gash Farm Road in the City of Asheville. The project included extending approximately 165 linear feet of 8-inch public gravity sewer to serve the four (4) unit residential development.

Mr. Hartye reported the New Belgium Distribution Center Sewer Extension project is located inside the District boundary off Jacob Holm Way in Buncombe County. The project included extending approximately 1,621 linear feet of 8-inch public gravity sewer to serve the commercial development.

Mr. Hartye reported the Palisades of Asheville Sewer Extension project is located inside the District boundary off Mills Gap Road in the City of Asheville. The project included extending approximately 1,424 linear feet of 8-inch public gravity sewer to serve the residential apartment complex.

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

**e. Consideration of Procurement – Calcium Nitrate Solution for Odor and Hydrogen Sulfide Control Contract:**

Mr. Hartye reported MSD has been using a calcium nitrate based solution for the

last few years to control hydrogen sulfide formation in the South French Broad Interceptor as well as the Weaverville Pump Stations. Pursuant to North Carolina Purchasing Statutes and MSD Procedures, bids were emailed to five (5) vendors and an advertisement was placed on the MSD web site. The following bids were received and opened on May 18, 2015: Southern Environmental Systems with a bid of \$2.06/gallon, and Evoqua with a bid of \$2.14/gallon. Southern Environmental Systems was the lowest bidder at \$2.06/gallon and agrees to hold their price firm for the total year contract irrespective of market changes. This is a Unit Price Contract without minimum or maximum quantities. Based on an estimated use of 90,000 gallons at \$2.06/gallon, the annual expenditure for Calcium Nitrate Solution is anticipated to be \$185,400 and is within levels budgeted by the WRF. Staff recommends award of the contract for the supply of Calcium Nitrate Solution to Southern Environmental Systems at a unit price of \$2.06/gallon.

**f. Cash Commitment/Investment Report Month Ended May 31, 2015:**

Mr. Powell reported Page 48 presents the makeup of the District's Investment Portfolio. The makeup of the portfolio is substantially the same as compared to last month. Page 49 is the MSD Investment Manager report as of the month of May. The weighted average maturity of the investment portfolio is 323 days. The yield to maturity is .53% and is exceeding MSD bench marks of the 6 month T-Bill and NCCMT cash portfolio. Page 50 is an analysis of the District's Cash Receipts. Monthly and YTD domestic & Industrial sewer revenue are considered reasonable based on timing of cash receipts in comparison to their respective fiscal periods. YTD Facility & Tap Fees are above historical trends due to the timing of 3 cash receipts from developers as well as fees being budgeted conservatively. Page 51 is an analysis of the District's Expenditures. Monthly and YTD O&M expenditures are considered reasonable based on historical trends. Due to the nature of the variable rate bond market, Monthly and YTD expenditures can vary year to year. Based on current variable interest rates, debt service expenditures are considered reasonable. Due to the 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. Page 52 is the MSD Variable Debt Service Report for the month of June. The 2008A Series refunding bonds is performing better than budgeted expectations. As of the end of June the issue has saved District rate payers \$3.9 million dollars in debt service since April 2008. Mr. Kelly asked when expenses and income are reconciled at the end of the fiscal year, and there is an overage, where does this money go. As an example, Mr. Powell stated that Impact Fees are typically above budget expectations, and this money goes back into unrestricted reserves. Excess monies will be used on future capital projects in the District's Capital Improvement Program. Mr. Kelly asked what happens if the District is short of revenues. Mr. Powell stated that Staff would come to the Board and request appropriation from reserves. Mr. Kelly requested a report be given next month on what the current surplus is.

As an item of note, Mr. Powell reported that staff will be going out for RFP for Auditing Services for FY2016, and encouraged input from the Board on this process.

Ms. Wisler moved the Board approve the Consolidated Motion Agenda as presented. Mr. Watts seconded the motion. With no discussion, Mr. VeHaun called for the question. Roll call vote was as follows: 10 Ayes; 0 Nays.

**9. Old Business:**

Mr. Clarke reported to date there is no news from the Court of Appeals.

**10. New Business:**

Mr. Clarke reported that he and Mr. Powell had a conversation with MSD's new Bond Counsel, Kevin Daugherty and Bob Kapland of McGuire Woods, who said they looked forward to working with MSD and thanked the Board for their confidence in them.

**11. Adjournment:**

With no further business, Mr. Root moved for adjournment at 2:26 pm. Mr. Pelly seconded the motion. Voice vote in favor of the motion was unanimous.

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Jackie W. Bryson, Secretary/Treasurer

# MSD

## Regular Board Meeting

Metropolitan Sewerage District  
of Buncombe County, NC

### AGENDA FOR 7/15/15

✓	Agenda Item	Presenter	Time	
	Call to Order and Roll Call	VeHaun	2:00	
	01. Election of Officers	VeHaun	2:05	
	02. Inquiry as to Conflict of Interest	VeHaun	2:15	
	03. <a href="#">Approval of Minutes of the June 10, 2015 Board Meeting.</a>	VeHaun	2:20	
	04. Discussion and Adjustment of Agenda.	VeHaun	2:25	
	05. Informal Discussion and Public Comment	VeHaun	2:30	
	06. <a href="#">Report of General Manager</a>	Hartye	2:35	
	07. Consolidated Motion Agenda		2:50	
	a. <a href="#">Consideration of Bids – Melody Circle Sanitary Sewer Replacement Project.</a>	Hartye		
	b. <a href="#">Consideration of Design Contract – Plant Headworks Improvement Project.</a>	Hartye		
	c. <a href="#">Consideration of Reimbursement Agreement – Reems Creek Master Plan Interceptor Phase 2.</a>	Hartye		
	d. Consideration of Developer Constructed Sewer Extensions: <a href="#">51 Gash Farm Road; New Belgium Distribution Center, and Palisades of Asheville.</a>	Hartye		
	e. <a href="#">Consideration of Procurement - Calcium Nitrate Solution for Odor and Hydrogen Sulfide Control Contract.</a>	Hartye		
	f. <a href="#">Cash Commitment/Investment Report – Month Ended May 31, 2015.</a>	Powell		
	08. Old Business:	VeHaun	3:05	
	09. New Business:	VeHaun	3:15	
	10. Adjournment: (Next Meeting 8/19/2015)	VeHaun	3:25	
	<a href="#">STATUS REPORTS</a>			

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT**  
**JUNE 10, 2015**

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

The regular monthly meeting of the Metropolitan Sewerage District Board and Public Hearing on the Budget for FY 2016 was held in the Boardroom of MSD's Administration Building at 2:00 pm, Wednesday, June 10, 2015. Chairman VeHaun presided with the following members present: Ashley, Bryson, Creighton, Frost, Kelly, Manheimer, Pelly, Root, Watts and Wisler. Mr. Belcher was absent.

Others present were: Thomas E. Hartye, General Manager, William Clarke, General Counsel, Marcus Jones with Henderson County, Forrest Westall with McGill Associates, P.E, and MSD Staff, Ed Bradford, Scott Powell, Peter Weed, Ken Stines, Mike Stamey, Matthew Walter, Jim Hemphill, Angel Banks, Julie Willingham, and Sondra Honeycutt.

**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 May, 20, 2015 Board Meeting:**

Mr. VeHaun asked if there were any changes to the Minutes of the May 20, 2015 Board Meeting. With no changes, Ms. Frost 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. Informal Discussion and Public Comment:**

Mr. VeHaun welcomed Mr. Jones. There was no public comment.

**6. Report of General Manager:**

Mr. Hartye reported the Final Budget will be presented during the Public Hearing following the Consolidated Motion Agenda. The only change from the Preliminary Budget is a wording change regarding use of medical insurance fund reserves. There are no changes to the budget numbers.

Mr. Hartye presented a letter from Board Member Matt Ashley expressing appreciation for David Hightower and Scott Graham who found and returned a case he lost the day before. Also, a call was received from Mark Ford of Pinecroft Road regarding Grady Brooks who was very nice and professional in helping him with his sewer problem.

Mr. Hartye expressed his thanks to all those employees who participated in the river cleanup for MSD's adopted portion of the French Board River and for Sandra Moore who headed up the effort. Thirty (30) bags of trash along with tires and vinyl siding were picked up.

Mr. Hartye reported the June ROW Committee Meeting is scheduled for June 24<sup>th</sup> at 9 am. The next regular Board Meeting will be held July 15<sup>th</sup> at 2 pm.

**7. Consolidated Motion Agenda:**

**a. Consideration of Bids – Sodium Hypochlorite Contract:**

Mr. Hartye reported the Water Reclamation Facility (WRF) is required to disinfect the effluent prior to discharge to the French Broad River. Liquid Sodium Hypochlorite is used for this purpose. Current contracted cost for Sodium Hypochlorite is \$0.659/gallon. The following two (2) bids were received on May 18, 2015: Specialty Chemical with a bid of \$0.6759/gallon, and JCI Jones with a bid of \$0.645/gallon. JCI Jones was the lowest bidder and agrees to hold its price firm for the total year contract irrespective of market changes. He further reported FY16 expenditures for Sodium Hypochlorite are anticipated to be \$129,000.00; within the levels budgeted by the WRF. Staff recommends award of the contract for the supply of Sodium Hypochlorite to JCI Jones at a unit price of \$0.645 per gallon.

**b. Consideration of Developer Constructed Sewer Systems for Boulden Subdivision and Ansley at Roberts Lake Sewer Extensions:**

Mr. Hartye reported the Boulden Subdivision sewer extension project is located inside the District boundary off Johnston Boulevard in the City of Asheville. The project included replacing approximately 206 LF of existing public sewer and extending approximately 105 LF of 8-inch public gravity sewer to serve the four (4) unit residential development.

Mr. Hartye reported the Ansley at Roberts Lake sewer extension project is located outside the District Boundary off Clayton Road in Buncombe County. The project included extending approximately 2,519 LF of 8-inch public gravity sewer to serve the 196-unit apartment complex.

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

**c. Report on MSD FY16 Non-City of Asheville Road ROW Paving Restoration Contract:**

Mr. Hartye reported this contract is for the restoration of roads, driveways, and sidewalks resulting from District maintenance activities for areas outside of the City of Asheville Road Right of Ways. At the June 11, 2014 Board Meeting the subject non-city contract for FY15 was presented to the MSD Board. French Board Paving, Inc. was the low bidder, with a provision to renew for one additional year if it was in MSD's best interest. The renewal clause also is contingent upon all terms and conditions, including price, being the same. The fiscal impact is within budget estimates, and is being presented as information only.

**d. Report on MSD Paving Agreement with the City of Asheville:**

Mr. Hartye reported this agreement is for asphalt and concrete (patching) restoration of public roads and sidewalks within the Asheville City Limits, which have a size of approximately 300 SF or less. For FY16, the District's monetary contribution for this agreement is \$475,719.80. This amount is based upon usage throughout this past year with a total patching area of 20,000 SF. He explained there are many components to this; emergency dig-ups, in-house line rehab and contracted line jobs that go specifically to contractors who handle the paving. During the last year, MSD put in \$1.6 million dollars in paving alone, which is a major cost component of sewer rehab work.

**e. Review and Approval of the Employee Handbook:**

Mr. Hartye reported the Employee Handbook was last revised in 2001. Legal and operational changes were required to properly describe MSD's current practices. The Handbook was rewritten and reorganized to cover information about the



District, Core Values, and day to day operational functions, and to incorporate the three (3) major protections for government employees; right to due process; protection from unreasonable search of personal property, and greater right to free speech. The Personnel Committee provided an endorsement pursuant to any other changes made by General Counsel and incorporated those into the document. The document is also on MSD's website and a copy is available upon request. The Committee recommends approval of the updated Employee Handbook.

**f. Consideration for Bond Counsel:**

Mr. Powell reported on March 18<sup>th</sup> staff informed the Board of staffing changes with MSD's current Bond Counsel, Sidley Austin, and requested an RFP for Bond Counsel be issued for qualified firms having a market presence in North Carolina. Staff sent out RFP's to six (6) firms. The Selection Committee evaluated the responses and chose three (3) firms for a formal interview. The Selection Committee recommends to the Board that McGuire Woods be approved for Bond Counsel due to their relevant knowledge of MSD as underwriters counsel, and their experience in the Utility Enterprise Market. Mr. Clarke stated the process was thorough with good qualified people. He further stated that Kevin Dougherty, who will act as lead counsel, has a good deal of experience with the District and currently serves as bond counsel to the Orange Water and Sewer Authority (OWASA) and Mission Hospital.

**g. Cash Commitment/Investment Report – Month Ended April 30, 2015:**

Mr. Powell reported Page 30 presents the makeup of the District's Investment Portfolio. The makeup of the portfolio is substantially the same as compared to last month. Page 31 is the MSD Investment Manager report as of the month of April. The weighted average maturity of the investment portfolio is 332 days. The yield to maturity is .55% and is exceeding bench marks of the 6 month T-Bill and NCCMT cash portfolio. Page 32 is an analysis of the District Cash Receipts. Monthly and YTD domestic and industrial sewer revenue are considered reasonable based on timing of cash receipts in comparison to their respective fiscal periods. YTD Facility and Tap fees are above historical trends due to the timing of three (3) cash receipts from developers as well as fees being budgeted conservatively. Page 33 is an analysis of the District's Expenditures. Monthly and YTD O&M expenditures are considered reasonable based on historical trends. Due to the nature of the variable rate bond market, Monthly and YTD expenditures can vary year to year. Based on current variable interest rates, debt service expenditures are considered reasonable. Due to the 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. Page 34 is the MSD Variable Debt Service report. The 2008A Series refunding bonds is performing better than budgeted expectations. As of the end of April the issue has saved the District rate payers \$3.9 million dollars in debt service since April, 2008.

Mr. Watts moved the Board approve the Consolidated Motion Agenda as presented. Mr. Pelly seconded the motion. With no discussion, Mr. VeHaun called for the question. Roll call vote was as follows: 11 Ayes; 0 Nays.

**8. Public Hearing: Consideration of Resolution Adopting the Final Budget for FY2015-2016 and Schedule of Sewer Rates and Fees:**

**MINUTES OF PUBLIC HEARING**

At 2:17 p.m. Mr. VeHaun declared the Public Hearing open on the Final Budget, Rates & Fees for Fiscal Year 2015-2016 and called on Mr. Powell to present the Budget.

Mr. Powell reported the only substantial changes in the budget compared to the Preliminary Budget presented in May is descriptions of individual projects in the Capital Projects section as well as performance measures pertaining to respective departments in the O&M expenditures.

Page 36 is the Flow of Funds Chart, which is a graphical representation of the budget resolution. In relation to the Budget Resolution, the only change is the additional wording for using up to 10% of the insurance fund reserves by the General Manager as needed. This was inserted into the Resolution due to the Affordable Health Care Act. He stated in the past, all organizations had the ability to refuse insurance via pre-existing conditions at anniversary dates, which has now been lifted; exposing all insurance funds to unforeseen expenditures. Staff believes that due to the nature of the reserves, giving the General Manager the latitude to have this authority will help to temperance some day to day activity that might occur in the insurance fund. Mr. Hartye stated more importantly, giving the latitude to use the reserve funds near the end of a fiscal year, is the most important facet of this change if unforeseen medical claims should arise. MSD is a relatively small entity to be self-funded. Year-end claims can have an impact.

Page 41 is the Schedule of Sewer Rates and Fees, which is the same as presented in May. Page 79 is the proposed \$47,484,577 FY16 Budget, which incorporates all recommendations from the Personnel as well as the CIP Committees as follows:

- ▶ 2.5% domestic rate increase.
  - .66 cent increase in the average single family monthly bill
  - Monthly bill will go from \$28.49 to \$29.15
- ▶ Continuation of the Industrial Rate Parity Plan.
  - Year 16 of 20
  - 4% average increase for the industrial section
- ▶ Facility and Tap Fee will remain at 2015 levels.
- ▶ 1.0% Rate of Return on Investments.
- ▶ 2.00% increase in Salaries and Benefits which has an impact of \$242,000. Includes Personnel Committee recommendations as to Salary Adjustments, Self-insurance funding and GASB 45 OPEB Funding as well as State required Retirement contributions and Unemployment funding.
- ▶ 2.3% increase in Materials Supplies and Service which has an impact of \$144,000. This is due specifically to regulatory impacts from EPA Title 4, pertaining to the upcoming incinerator project.

Mr. VeHaun called for public comment on the proposed Budget, Rates and Fees for FY2015-2016. With no comment, Mr. VeHaun declared the Public Hearing closed at 2:32 p.m.

Mr. VeHaun called for a motion to approve the Resolution adopting the Final Budget, Rates & Fees for FY2015-2016. Ms. Frost moved. Mr. Watts seconded the motion. Voice vote in favor of the motion was unanimous.

**9. Old Business:**

None

**10. New Business:**

Mr. Clarke reported arguments in the water lawsuit took place on June 3<sup>rd</sup>. Mayor Manheimer, Councilman Pelly and Councilwoman Wisler were in attendance along with a host of elected officials and people from various parts of North Carolina. He stated the debate was very interesting with arguments from both sides. He further stated a decision should be made by the end of the summer, and then will likely go to the Supreme Court. Mr. Root asked if there is any sign the Legislature will do anything whatsoever. Mr. Clarke said no. Ms. Manheimer stated as a lawyer she felt it was a good debate. Mr. Clarke stated that the panel did not ask a lot of questions about the issues decided by the lower court, but questions about issues the lower court did not address. Ms. Manheimer said Judge Dillon has a finance background, so stayed with finance questions. Ms. Frost asked how long the debate lasted. Ms. Manheimer said about one hour.

**11. Adjournment:**

With no further business, Mr. VeHaun called for adjournment at 2:36 p.m.

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Jackie W. Bryson, Secretary/Treasurer



## MEMORANDUM

TO: MSD Board  
FROM: Thomas E. Hartye, P.E., General Manager  
DATE: July 9, 2015  
SUBJECT: Report from the General Manager

- Clean Air Compliance Award

Attached is a letter from the Western North Carolina Regional Air Quality Agency recognizing MSD for compliance with all the air quality rules and regulations for 2014. Congratulations and thanks to the Plant operation and maintenance folks.

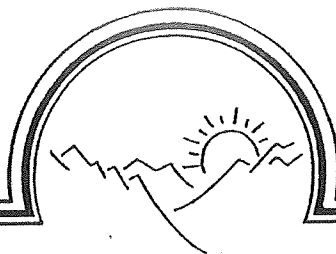
- Kudos

- Todd short of 56 Grindstaff Dr. called to praise James Beaver and Wayne Rice “for being cordial, professional and very thorough.”
- Attached is an email from Jeff and Leslie Treadway expressing appreciation for what we know to be true about Roy Lytle. We are both grateful to have him as a part of the MSD family and sorry for his loss. Please keep Roy and his family in your thoughts and prayers.
- MSD received a call from Vicky Currence of 38 Woodcrest Rd. to express appreciation for Lloyd Anders and Jamie Foxx “for being very responsive to her request and to going and beyond.”

- Board/Committee Meetings/Events

The Personnel Committee will meet July 21<sup>st</sup> at 9am to review GM. An employee appreciation lunch will be held behind Plant Maintenance at 11:30 am July 23<sup>rd</sup>. The July ROW Committee Meeting is cancelled. The next ROW is scheduled for August 26th at 9am. The Next Regular Board Meeting will be held August 19<sup>th</sup> at 2 pm.

**Western North Carolina**



**Regional Air Quality Agency**

David A. Brigman, Director

Serving Buncombe County and the City of Asheville

June 17, 2015

Tom Hartye  
Metropolitan Sewerage District of Buncombe County  
2028 Riverside Drive  
Asheville, NC 28804

Dear Tom Hartye:

The Western North Carolina Regional Air Quality Agency would like to recognize Metropolitan Sewerage District of Buncombe County for compliance with air quality rules and regulations during 2014.

We appreciate your diligence in complying with your permit. As always, if we can be of assistance in any matter, particularly with pollution prevention activities, please let us know.

Sincerely,

David A. Brigman  
Director

Enclosure

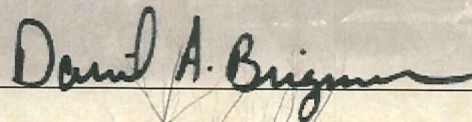


# CLEAN AIR COMPLIANCE AWARD

PRESENTED TO

**Metropolitan Sewerage District of  
Buncombe County**

**For compliance with WNC Regional Air Quality Agency  
rules and regulations during 2014.**



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**David A. Brigman, Director  
Western North Carolina Regional Air Quality Agency**

**From:** Treadway Family [<mailto:wolverinetread@aol.com>]  
**Sent:** Thursday, June 11, 2015 11:19 AM  
**To:** Stamey, Mike  
**Subject:** Roy Lytle

Good morning, Mr. Stamey. My wife, Leslie, and I are friends of Julie Willingham. We have recently been looking at improving our home sewer system by installing a new line that would allow us to no longer depend on a faulty sewer tank / pumping system that was part of the original construction of our home twenty years ago. Last week, I met with Mr. Roy Lytle to see what was involved and ask questions about this type of project. Mr. Lytle was fantastic. He walked me through the process and carefully answered my questions in a way that I could understand. We had played "phone tag" for a couple of days prior to actually meeting, and Mr. Lytle always completed his message with a genuine "if there is ANYTHING I can do to help you or answer any of your questions, please call me at any time." Upon meeting him, I immediately sensed that he was very competent, but more importantly, that he was genuinely interested in helping us. He stayed for almost forty-five minutes, describing the process and answering my questions. When he left, he gave me his business card and once again told me to call him if I had any questions at all. He assured me that he would pass along his information and paper work to his immediate supervisor, and that we should hear something soon. I was genuinely impressed with his professionalism and work ethic.

We have just learned about Mr. Lytle's wife and are very saddened for his loss. At no time while talking with him did he ever mention his situation, which is understandable. However, he also never seemed to be distracted or less than enthusiastic and willing to help us in any way. I find it very impressive that he was able to provide the necessary focus and attention to our needs, when his personal needs were so serious. Mr. Lytle not only represented himself as a true professional, he represented MSD in a very positive and professional way.

I just wanted to express my sincere appreciation for what he did for us. Learning of his wife's passing has made me wonder if I would be as good an employee and representative of a company if faced with similar circumstances. Mr. Lytle appears to be an even better person than he is employee.

Sincerely,

Jeff and Leslie Treadway

# Metropolitan Sewerage District of Buncombe County

## BOARD ACTION ITEM

**BOARD MEETING DATE:** July 15, 2015

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

**PREPARED BY:** Ed Bradford, P.E. - Director of Engineering  
Hunter Carson, P.E. - Project Manager

**SUBJECT:** Melody Circle Sanitary Sewer Replacement Project: Consideration of Bids, MSD Project No. 2010093

**BACKGROUND:** This project is located in Swannanoa, near US70. The eight-inch clay line serving this area is in poor structural condition, which has caused SSO's and numerous customer service requests.

This is the largest dig & replace project for FY15-16. It is comprised of 4,583 LF of 8-inch DIP.

The contract was advertised and five bids were received on June 23, 2015 as follows:

<u>Contractor</u>	<u>Bid Amount</u>
1) Buckeye Bridge, LLC	\$1,465,086.70
2) Patton Construction	\$1,283,660.00
3) Huntley Construction	\$1,130,440.20
4) Thomas Construction Co.	\$1,126,285.26
5) <b>Terry Brothers Const. Co., Inc.</b>	<b>\$ 954,087.50</b>

The apparent low bidder is Terry Brothers with a bid amount of \$954,087.50. Terry Brothers has completed numerous MSD sewer replacement projects, and their work quality has been excellent to date.

Please refer to the attached documentation for further details.

**FISCAL IMPACT:** The FY15-16 Construction Budget for this project is \$1,125,000.00.

**STAFF RECOMMENDATION:** Staff recommends award of this contract to Terry Brothers Const. Co., Inc. in the amount of \$954,087.50, subject to review and approval by District Counsel.



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

**Melody Circle Sewer Replacement  
Project No. 2010093**

**BID TABULATION**

**June 23, 2015**

<b>BIDDER</b>	<b>Bid Bond</b>	<b>MBE Form</b>	<b>Bid Forms (Proposal)</b>	<b>Total Bid Amount</b>
Buckeye Construction Company Canton, NC	5%	1	Yes	(*) \$1,465,086.70
Patton Construction Group, Inc. Arden, NC	5%	1	Yes	\$1,283,660.00
Huntley Construction Company Asheville, NC	5%	1	Yes	\$1,130,440.20
Thomas Construction Company Johnson City, TN	5%	1, 3	Yes	\$1,126,285.26
<b>Terry Brothers Construction Co. Leicester, NC</b>	<b>5%</b>	<b>1</b>	<b>Yes</b>	<b>\$954,087.50</b>

**APPARENT LOW BIDDER**

(\*) Indicates correction in Contractor's bid amounts.

W. Hunter Carson, P.E.  
Project Engineer  
Metropolitan Sewerage District of  
Buncombe County, North Carolina



This is to certify that the bids tabulated herein were publicly opened and read aloud at 2:00 p.m. on the 23rd day of June, 2015, in the W.H. Mull Building at the Metropolitan Sewerage District of Buncombe County, Asheville, North Carolina, and that said bids were accompanied by acceptable bidders bonds in the amount of 5% of the bid.

## Interoffice Memorandum

**TO:** Tom Hartye, General Manager

**FROM:** Ed Bradford, Engineering Manager  
Hunter Carson, Project Manager

**DATE:** June 24, 2015

**RE:** Melody Circle Sewer Replacement - MSD Project No. 2010093

The Melody Circle Sewer Replacement project is located in Swannanoa off of US 70 Hwy, approximately one mile west of the US 70 Hwy/Patton Cove Road (I-40 exit 59) intersection. The project includes sewer replacement on Melody Circle, Happy Lane, Kimberly Lane, and New Salem Road. The lower end of the Melody Circle project connects to the New Salem Road Sewer Replacement project, also scheduled for construction in FY15-16.

Approximately 4,583 linear feet of 8-inch DIP sewer line will be installed to replace existing 8-inch VCP lines. Root intrusion, and cracks and holes in the pipe walls have resulted in manhole overflows and more than 70 customer service requests over the past decade. This project ranks highly in the CIP pipe rating system at 58, primarily due to the number of CSRs.

On June 23, 2015, five (5) sealed bids were received at 2:00 pm. The results were as follows:

<u>Contractor</u>	<u>Bid Amount</u>
1) Buckeye Bridge, LLC	\$1,465,086.70
2) Patton Construction	\$1,283,660.00
3) Huntley Construction	\$1,130,440.20
4) Thomas Construction Co.	\$1,126,285.26
5) <b>Terry Brothers Const. Co., Inc.</b>	<b>\$ 954,087.50</b>

The apparent low bidder is Terry Brothers Construction Co., Inc. with a bid amount of \$954,087.50. The FY15-16 construction budget for this project is \$1,125,000.00. Terry Brothers Construction Co. has an extensive history completing District rehabilitation and replacement projects with excellent workmanship and quality. Terry Bros. completed four of the District's ten CIP projects in FY 14-15.

Staff recommends award of this contract to Terry Brothers Construction Co., Inc. contingent upon review and approval by District legal counsel.

# Metropolitan Sewerage District of Buncombe County, North Carolina

## CAPITAL IMPROVEMENT PROGRAM

### BUDGET DATA SHEET - FY 2015 - 2016

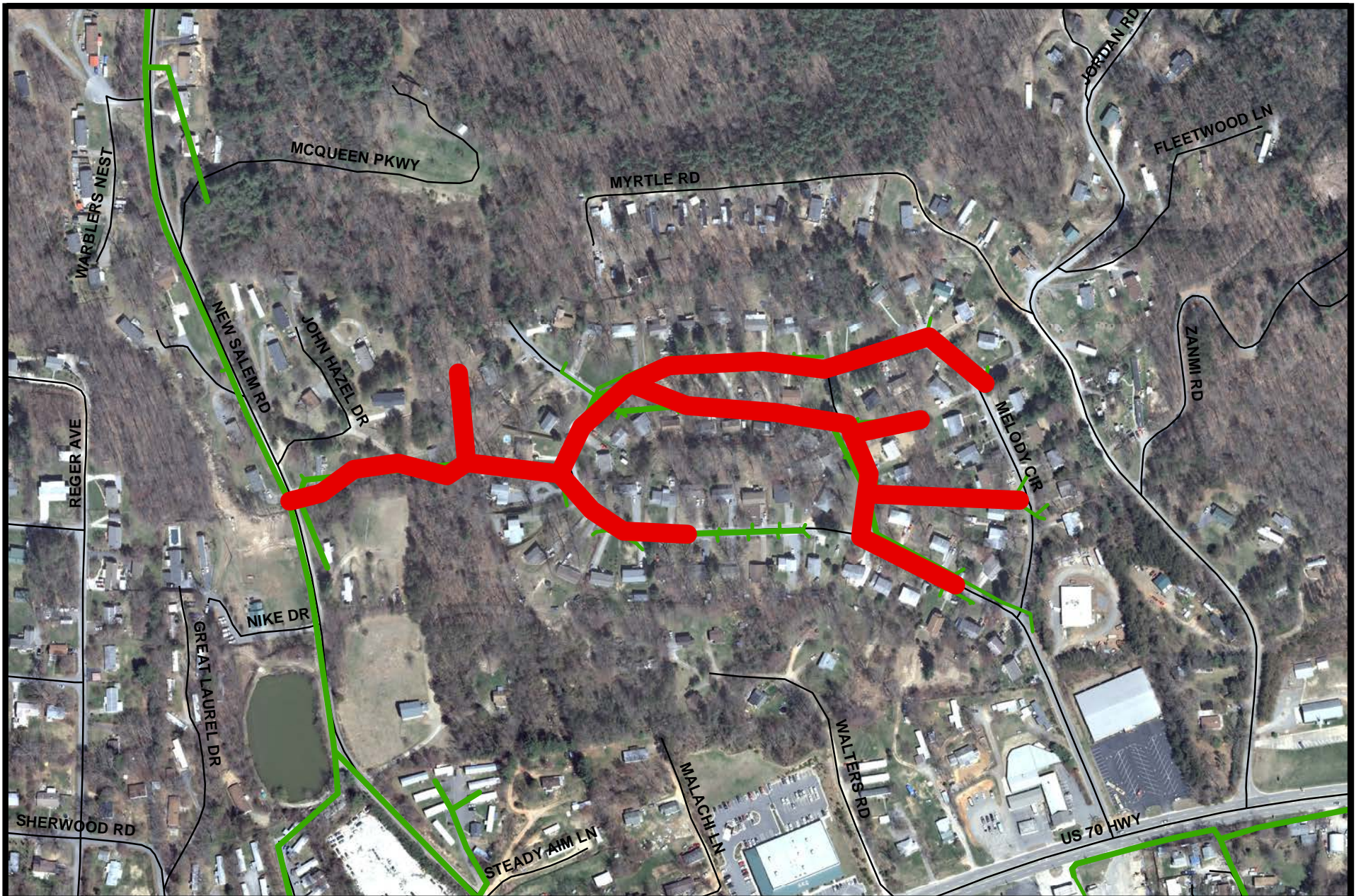
PROJECT:	Melody Circle	LOCATION:	Swannanoa
TYPE:	General Sewer Rehab.	PIPE RATING:	58
PROJECT NO.	2010093	TOTAL LF:	4,577
PROJECT BUDGET:	\$1,275,700.00	PROJECT ORIGIN:	SSO's; Access; Line condition

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/14	EST. COST JAN - JUNE 2015	BUDGET FY 15-16
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN	\$14,200.00	\$14,135.00		
55330 - DESIGN				
55340 - PERMITS				
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS	\$15,000.00	\$14,640.00	\$360.00	
55370 - LEGAL FEES	\$20,000.00	\$10,881.00	\$7,119.00	\$2,000.00
55380 - ACQUISITION SERVICES	\$20,000.00	\$9,523.00	\$10,477.00	
55390 - COMPENSATION	\$60,000.00	\$14,307.00	\$35,693.00	\$10,000.00
55400 - APPRAISAL	\$2,500.00		\$2,500.00	
55410 - CONDEMNATION	\$5,000.00		\$2,500.00	\$2,500.00
55420 - CONSTRUCTION	\$1,125,000.00			\$1,125,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING	\$5,000.00			\$5,000.00
55450 - SURVEY - ASBUILT	\$9,000.00			\$9,000.00
TOTAL AMOUNT	\$1,275,700.00	\$63,486.00	\$58,649.00	\$1,153,500.00

ENGINEER:	MSD	HC	ESTIMATED BUDGETS - FY '16 -'25	
R.O.W. ACQUISITION:	Consultant	# PLATS: [ 25 ]	FY 16-17	\$0.00
CONTRACTOR:			FY 17-18	\$0.00
CONSTRUCTION ADM:	MSD		FY 18-19	\$0.00
INSPECTION:	MSD		FY 19-20	\$0.00
			FY 20-21	\$0.00
			FY 21-22	\$0.00
PROJECT DESCRIPTION: This project is located in Swannanoa, adjacent to US Hwy. 70 on Melody Circle. It is comprised of approximately 4,577 LF of 8-inch ductile iron pipe. The existing clay line has deteriorated from multiple root penetrations as well as various cracks and/or breaks in the pipe.			FY 22-23	\$0.00
			FY 23-24	\$0.00
			FY 24-25	\$0.00

SPECIAL PROJECT NOTES:





**Melody Circle  
Project No. 2010093**

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:** 7/15/15

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

**REVIEWED BY:** Tom Hartye, P.E. - General Manager  
Billy Clarke - District Counsel  
Forrest Westall, P.E. - Engineer of Record

**PREPARED BY:** Ed Bradford, P.E. - Director of Engineering  
Hunter Carson, P.E. - Project Engineer

**SUBJECT:** Plant Headworks Improvements Project - Consideration of Design Contract, MSD Project Number 2015004

**BACKGROUND:** The District's recently completed Facility Plan Update provides recommendations for improvements at the treatment plant over a 20 year planning horizon. After extensive research of various options, the plan recommends near-term Headworks Improvements which include adding a new grit removal process, fine screening system, and storage for peak flows (using existing decommissioned digesters). The mid-term project involves installation of a new chemically-enhanced primary clarification process. These near-term and mid-term improvements have been incorporated into the District's Ten-Year CIP.

The District is looking to begin the design process for the near-term Headworks project which has an estimated cost of approximately \$7.4 million.

In accordance with NCGS 143-64.31 the District advertised a Request for Qualifications for the design phase, and HDR responded to this advertisement.

HDR was previously selected for the completion of the Facilities Plan Update after careful review and consideration of the capabilities, experience, and staffing of three major engineering consultants. Their performance and attention to detail was excellent on that project.

In order to formulate the Facilities Plan, HDR had to perform a significant amount of investigation and preliminary engineering for the plant processes.

Given their excellent performance on the previous project and their detailed knowledge of the Headworks process, Staff believes that HDR is highly qualified for this first project, and the District will realize a more efficient design process by having the engineering completed by HDR.

Staff therefore recommends that the District contract with HDR for this design work.

After receiving an initial proposal for HDR's engineering design fee, District staff negotiated a reduced fee in the amount of \$655,512.00. The preliminary construction cost estimate for this project is \$6,510,000.00.

Please refer to the attached documentation, including the HDR Scope of Services, for further details.

**FISCAL IMPACT:** The FY15-16 design budget for this project is \$656,000.00.

**STAFF RECOMMENDATION:** Staff recommends the District enter into an engineering design contract with HDR in the amount of \$655,512.00, subject to review and approval by District Counsel.

# Scope of Services

## Part A: Background

HDR is currently completing a Facility Plan Update for the Metropolitan Sewerage District (MSD) of Buncombe County's French Broad River Water Reclamation Facility (WRF), including a facility assessment; future effluent requirements and regulatory assessments; influent flows and loads development that will serve as the basis of planning future facilities; preliminary, primary, biological treatment improvements alternatives evaluation; conceptual design and selection of facility alternatives; plant expansion possibilities; current site limitations; development of a phased Treatment Facility Improvements Plan including specific projects recommended to accommodate future demands, meet future regulatory requirements, and to improve reliability and operational efficiency. The Facility Plan Update has been a collaborative process between HDR and MSD staff and management, with strong emphasis on a series of information and decision-making workshops.

MSD desires that HDR use the recommended design criteria presented in the Technical Memoranda (TM) and in workshops as a starting point to prepare the design of the first phase of component upgrades recommended by the Facility Plan Update.

This Scope of Services is for design, permitting, and bidding services for Preliminary Treatment Improvements. The design will be based on recommendations and discussions between HDR and MSD staff documented in the Facility Plan Update project. Major components of this design project will include a new fine screening facility, a new forced vortex grit removal system, and a new surge / flow equalization system with new pumping station and flow return structure. The design will utilize the 2015 Facility Plan Update as a basis, and will continue the collaborative process between HDR and MSD staff and management, with design workshops to help ensure MSD desires are integrated into the final design.

## Part B: Scope of Services

The Scope of Work below provides the objectives, major tasks, assumptions and deliverables. The scope assumes a collaborative process between HDR and MSD staff and management, with a series of information and decision-making workshops, similar to the Facility Plan Update Project. The purpose of the workshops is to present design components and receive comments from MSD to incorporate into the design. Comments and input received from MSD during the workshops will be used to further develop and finalize the design. Scope will include design drawings and specifications required to prepare complete bidding documents, including obtaining necessary permits from regulatory agencies. This includes an Authorization to Construct (ATC) from NCDENR, Erosion and Sediment Control permits, and Buncombe County building permits.

The project design is anticipated to include the following components:

- 1) Open structure fine screening facility rated for 80 mgd with 3 channels (2 duty, 1 spare)
- 2) Screenings conveyor to two washer / compactors (1 duty, 1 spare)
- 3) Two-train forced vortex grit removal system rated for 80 mgd
- 4) Grit washer / classifier and pump for each grit removal unit
- 5) Conversion of existing digesters to surge / flow EQ tanks
- 6) Conversion of existing digester house to new surge / flow EQ pumping station for 15 mgd
- 7) Flow split / diversion structure
- 8) Demolition of abandoned chlorine building
- 9) Sitework / grading required to accommodate new structures
- 10) SCADA / I&C integration of new facilities

Note that HDR plans to prepare the design using Autodesk REVIT 2014 and develop a 3-dimensional Building Information Management (BIM) model for design and presentation purposes. HDR has found that design in 3D software is both more efficient for us during design than 2D methods and is greatly preferred by municipality design and operations staff for design reviews. As the final construction documents are plotted 2D for bidding purposes, the only real difference to MSD will be that there are fewer 2D drawings of the structures presented at the 30 and 60 percent review meetings. At these meetings, the structures are primarily presented using the 3D models of the structures using free software, Autodesk Navisworks Freedom, which allows cutting live sections, etc. during the review workshop. This is a great visualization tool that communicates the design intent much better and with fewer surprises than traditional 2D plan and section drawings. HDR will submit the 3D model file to MSD as well as any 2D drawings for initial review prior to the review workshops.



The table below lists major tasks for the Preliminary Treatment Improvements Project.

<b>MAJOR TASKS</b>	
<b>100</b>	Project Management and Project Initiation Workshop
<b>200</b>	Preliminary Design
<b>300</b>	Final Design
<b>400</b>	Permitting
<b>500</b>	Bidding and Award

## **1.1 MSD WRF Preliminary Treatment Improvements Design – Tasks 100 – 500**

A. HDR shall perform the following:

### **1. Task 100 – Project Management and Project Initiation Workshop**

- a. The Project Management efforts include administering the project, filing and document control, project reviews, resource assignment, and monthly invoicing.
- b. Prepare for and attend a one-day workshop to provide an opportunity for all the key team members to meet and review the overall Project goals and objectives, establish lines of communication, revisit and reconfirm design objectives, review the overall Project schedule, and provide a general exchange of ideas for moving forward with the design.
- c. Provide an overview demonstration / training of Autodesk Navisworks Freedom 3D design review software.
- d. Prepare agenda and meeting minutes for workshop.

### **2. Task 200 – Preliminary Design - 30% Design and Workshop**

- a. Perform a field survey to prepare topographic mapping and establish horizontal and vertical control for use by contractor.
- b. Perform geotechnical investigations at the proposed facilities to determine soil / rock conditions to be used for design and provided to the contractors during bidding.
- c. Field survey and geotechnical services will be coordinated with HDR and contracted directly by MSD.
- d. Using the Facility Plan Update as a basis, HDR will develop 30% design documents that will include:

- i. BIM model of proposed new structures and equipment
  - ii. 2D site plans, process flow diagrams, and other applicable drawings
  - iii. Major equipment draft specifications
- e. 30% Opinion of Probable Construction Cost
- f. Quality Assurance and Quality Control (QA/QC)
- g. 30% Design Review documents will be submitted electronically to MSD for a 10 day working review period.
- h. Approximately mid-way through the MSD review period, conduct a design review workshop with MSD. HDR will present the design and discuss MSD comments at a design workshop in order to:
  - i. Review and confirm design intent
  - ii. Review and discuss major equipment specifications and manufacturers
  - iii. Discuss access and operability comments and requirements
  - iv. Discuss and incorporate any MSD comments into subsequent design deliverable.

### **3. Task 300 – Final Design**

#### **60% Design and Workshop**

- i. Incorporating comments from 30% design review workshop, HDR will develop 60% design documents that will include:
    - ii. Updated BIM model
    - iii. Updated design drawings
    - iv. 60% specifications
    - v. Draft Basis of Design Report to be used to obtain ATC
- b. Quality Assurance and Quality Control (QA/QC)
- c. 60% Design Review documents will be submitted electronically to MSD for a 10 working day review period.

- d. Approximately mid-way through the MSD review period, conduct a design review workshop with MSD. HDR will present the design and discuss MSD comments at a design workshop in order to:
  - i. Review and confirm design intent
  - ii. Review and discuss specifications
  - iii. Discuss access and operability comments and requirements
  - iv. Review and incorporate MSD comments into subsequent design deliverable.

### **90% Design and Workshop**

- e. Incorporating comments from 60% design review workshop, HDR will develop 90% design documents that will include:
  - i. Updated BIM model
  - ii. Updated design drawings
  - iii. 90% specifications
- f. 90% Opinion of Probable Construction Cost
- g. Quality Assurance and Quality Control (QA/QC)
- h. Final Basis of Design Report to be used to obtain ATC.
- i. The draft 90% design documents will be submitted electronically to MSD for a 10 working day review period.
- j. Based on comments received from MSD staff, update and prepare 100% Construction Documents for final review.

### **100% Design**

- k. Incorporating comments from 90% design review workshop, HDR will develop 100% final bidding design documents that will include:
  - i. 100% design drawings
  - ii. 100% specifications
  - iii. ATC Package
  - iv. E&SC Permit Package

v. Building Permit Package

- l. Paper and electronic copies of the 100% design documents will be submitted to MSD and regulatory agencies as required.

**SCADA / Ancillary Components Workshops**

- m. It is anticipated that at least two (2) additional workshops will be conducted during the Design phase.
- n. HDR will prepare for and attend the following potential 1-day workshops:
  - i. Electrical / SCADA / I&C
  - ii. Ancillary Components / Other

**4. Task 400 – Permitting**

- a. HDR shall provide technical criteria, written descriptions, and design data for MSD's use in filing applications for permits from or approvals of governmental authorities having jurisdiction to review or approve the final design of the Project; assist City in consultations with such authorities; and revise the Drawings and Specifications in response to directives from such authorities.
- b. It is anticipated that reviews and approvals will be required from the following:
  - i. Authorization to Construct (ATC) from NC DENR, Division of Water Resources
  - ii. Erosion and Sedimentation Control (E&SC) Permit from the NC DENR, Division of Land Quality
  - iii. Building Permit from Buncombe County

**5. Task 500 – Bidding and Award**

Following authorization from MSD, HDR shall perform the following services related to Bidding and Award:

- a. Assist MSD in advertising for construction, materials, equipment, and services.
- b. Attend pre-bid conference.
- c. Assist with preparation of addenda as appropriate to interpret, clarify, or further define the Contract Documents. Addenda will be issued by Owner.

- d. Consult with and advise MSD to determine the acceptability of substitute materials and equipment proposed by Contractor when substitution prior to the award of contracts is allowed by the Contract Documents.
- e. Attend the bid opening and certify the bid tabulation prepared by MSD. Assist MSD in contract award process.

B. Engineer's services under the Preliminary Treatment Improvements project will be considered complete on the date when the Final Design Documents have been delivered, the project is permitted and bid, and the bids opened. It is anticipated that this scope of services will be completed by September 1, 2016 assuming a Notice to Proceed on or about August 1, 2015.

***Professional Services Not Included***

1. Full scale testing, jar testing, pilot testing, and laboratory analytical services will be conducted by MSD staff.
2. Preparing cash flow and economic evaluations, rate schedules and appraisals.
3. Environmental assessments or impact statements or biological surveys.
4. Historical, archeological and hazardous waste investigations.
5. Preparing to serve or serving as a consultant or witness for MSD in any litigation, arbitration, or other legal or administrative proceeding involving the Project. If MSD and HDR are parties to such proceedings, HDR's activities associated with such proceedings shall not entitle HDR to any payment under this Agreement.

***Key Understandings and Assumptions***

1. 30% and 60% review submittals will include select design drawings and the 3D model of proposed structures. The complete set of 2D plans and sections of new structures will not be provided until the 90% review meeting.
2. Calendar days to completion have been prepared based on the assumption that survey and geotechnical work will begin shortly after Notice to Proceed is issued. Field survey and geotechnical services will be coordinated with HDR and contracted directly by MSD.
3. Engineer's opinions of probable cost are for planning purposes. Appropriate contingency will be included in the development of costs.
4. All activities defined in Task Series 100 through 500 are based on a Notice to Proceed issued on or before August 1, 2015.
5. Engineer will not supervise, direct or control MSD staff.

6. Hours and fee are based on project's totals and not specific tasks. Total hours associated with each professional classification may vary.
7. MSD will pay for applicable permit fees.
8. Construction phase is an estimated duration of 18-months. MSD significantly contributes to Construction Administration services including full-time inspections, therefore MSD and HDR will collaboratively scope and negotiate Construction Administration services during the Design phase.

### **Part C: Additional Services / Optional Tasks**

Additional services and optional tasks may be performed under this scope of services with the written authorization of MSD. Detailed scope of services, schedules and engineering fees for the additional services will be provided at the request of MSD. No additional services will be initiated without the authorization of MSD.

### **Part D: Schedule**

The attached schedule has been prepared based on written authorization to proceed by August 1, 2015. Should the authorization extend beyond this date, HDR reserves the right to request an extension in the schedule.

### **Part E: Engineering Fee**

Compensation for professional engineering services associated with the Scope of Work detailed above will be based on a lump sum engineering fee of \$655,512.

HDR will invoice MSD on a monthly basis for all activities related to this scope of services based on percent complete of the lump sum fee. The fees listed above will not be exceeded without written authorization from the MSD.

Attachments:

- Proposed Schedule
- Proposed Drawing List
- Task/Cost Breakdown

MSD - French Broad River WRF  
Scope of Work - Preliminary Treatment Improvements Project

Task	Task Description  Hourly rate	Manhour Forecast (Hrs)															Total Hours	Task Fee	Total Expenses	Total Fee
		TA/QC 230	PM 200	DM 185	PE 135	EIT 100	Sr. Str 190	SE 100	EE 145	I&C 150	Civil 145	S CAD 135	CAD 120	COST 185	ADM 85	ACCT 80				
100	Project Management and Project Initiation Workshop		90	20		20	8		8	8	8				4	15	181	\$30,280	\$1,922	\$32,202
200	Preliminary Design and Workshop	60	24	120		100	40	80	12	12	12	100	280	60	16		916	\$131,240	\$5,148	\$136,388
300	Final Design and Workshops	100	60	385		420	150	160	272	90	60	220	1,000	40	100		3,057	\$419,965	\$15,841	\$435,806
400	Permitting		4	40		100	8		8		40		24		12		236	\$30,580	\$1,876	\$32,456
500	Bidding and Award		8	30		60	2	2	4	2	4		8		12		132	\$17,170	\$1,490	\$18,660
Preliminary Treatment Improvements Design		160	186	595	0	700	208	242	304	112	124	320	1,312	100	144	15	4,522	\$629,235	\$26,277	\$655,512

# Metropolitan Sewerage District of Buncombe County, North Carolina

## CAPITAL IMPROVEMENT PROGRAM

### BUDGET DATA SHEET - FY 2015 - 2016

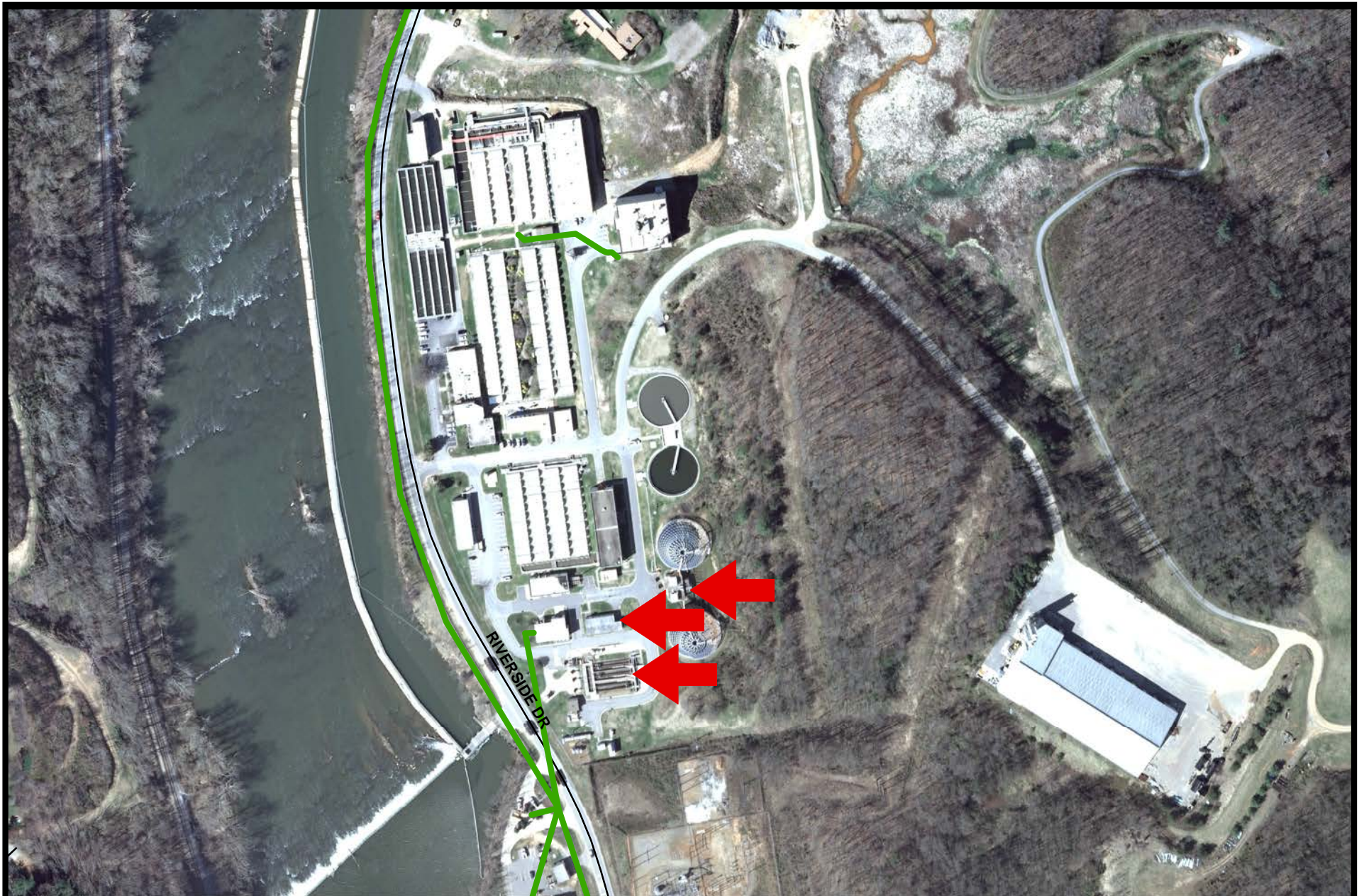
PROJECT:	Plant Headworks Improvements	LOCATION:	MSD-Treatment Plant
TYPE:	Treatment Plant	PIPE RATING:	N/A
PROJECT NO.	2015004	TOTAL LF:	0
PROJECT BUDGET:	\$7,441,000.00	PROJECT ORIGIN:	Facilities Plan Update - HDR

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/14	EST. COST JAN - JUNE 2015	BUDGET FY 15-16
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN				
55330 - DESIGN	\$656,000.00			\$656,000.00
55340 - PERMITS				
55350 - SPECIAL STUDIES	\$25,000.00			\$25,000.00
55360 - EASEMENT PLATS				
55370 - LEGAL FEES				
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION				
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$6,510,000.00			
55430 - CONST. CONTRACT ADM.	\$250,000.00			
55440 - TESTING				
55450 - SURVEY - ASBUILT				
<b>TOTAL AMOUNT</b>	<b>\$7,441,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$681,000.00</b>

ENGINEER:	TBD	HC	ESTIMATED BUDGETS - FY '16 -'25	
R.O.W. ACQUISITION:	N/A	# PLATS: [ 0 ]	FY 16-17	\$4,466,000.00
CONTRACTOR:			FY 17-18	\$2,294,000.00
CONSTRUCTION ADM.:	TBD		FY 18-19	\$0.00
INSPECTION:	TBD		FY 19-20	\$0.00
			FY 20-21	\$0.00
			FY 21-22	\$0.00
<b>PROJECT DESCRIPTION:</b> This project is a recommendation from the Facilities Plan Update, a WRF master planning document completed by HDR in April 2015. This project consists of a new grit removal system, fine screening facility, and surge/equalization basins and pumping station at the French Broad River WRF. The upgrades will improve downstream water quality and shave peak flows into the WRF.			FY 22-23	\$0.00
			FY 23-24	\$0.00
			FY 24-25	\$0.00

<b>SPECIAL PROJECT NOTES:</b>





**Plant Headworks Improvements  
Project No. 2015004**

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:** July 15, 2015

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

**PREPARED BY:** Ed Bradford, P.E. - Director of Engineering  
Kevin Johnson - Planning & Development Manager

**SUBJECT:** Reems Creek Master Plan Interceptor Phase 2 - Consideration of Reimbursement Agreement, MSD Project No. 2015025

**BACKGROUND:** This project is for the installation of a new sanitary sewer interceptor along Reems Creek. Windsor Built Homes, Inc. (Windsor) proposes to install this new 16-inch line in accordance with the District's Collection System Master Plan. Windsor constructed the District's first Master Plan project, which is the existing downstream interceptor that this new line will connect to.

The interceptor will begin at Pleasant Grove Road at the end of the existing interceptor. It will extend 712 linear feet upstream to serve a 22 Acre tract owned by Windsor, which plans to develop this property for residential use. The construction cost estimate for the 16-inch line is \$211,846, which Windsor will fund.

An 8-inch line would serve Windsor's needs; however, a 16-inch line will be installed in accordance with the Master Plan. This line therefore qualifies for *Additional Capacity Reimbursement*.

Under *Additional Capacity Reimbursement*, a developer who is required to construct a larger line than is necessary for their own development, in order to serve additional areas, is eligible for reimbursement of the increased construction cost. In this case, the increase is \$22,900.00.

In addition, for new lines 12-inches and larger which will serve upstream properties in the future, the District will design the line and acquire necessary rights-of-way. This particular line was previously designed as part of the first Master Plan Project, which was later reduced in scope. The design and ROW acquisition for this latest portion are complete.

Please refer to the attached documentation for further details.

**FISCAL IMPACT:** The FY15-16 construction reimbursement budget for this project is \$22,900.00. The reimbursement to Windsor will not be issued until the sewer construction project is fully closed out and the line has been accepted by the District Board.

**STAFF RECOMMENDATION:** Staff recommends that the District enter into a reimbursement agreement with Windsor Built Homes, Inc., in the amount of \$22,900.00, subject to review and approval by District Counsel.

STATE OF NORTH CAROLINA	)	AGREEMENT REGARDING
	)	CONSTRUCTION OF AND
COUNTY OF BUNCOMBE	)	REIMBURSEMENT FOR REEMS CREEK
	)	MASTER PLAN INTERCEPTOR SEWER
	)	EXTENSION PHASE II

**THIS AGREEMENT**, made this \_\_\_\_ day of \_\_\_\_\_, 2015, by and between the **METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY** (hereinafter sometimes called “**MSD**” or the “**District**”), a North Carolina public body and body politic and corporate created and established under the provisions of the North Carolina Metropolitan Sewerage Districts Act, Chapter 153, Article 25, Sections 153-295 to 153-324, inclusive (succeeded by Chapter 162A, Article 5, Sections 162A-64 to 162A-81, inclusive) of the General Statutes of North Carolina; and **WINDSOR BUILT HOMES, INC.** (hereinafter sometimes called “**Windsor**”), a corporation organized under the laws of the State of South Carolina with its principal office and place of business in Greenville, S.C.

**WHEREAS, MSD** maintains and operates a system of interceptor and collector sewer lines and a wastewater treatment facility which treats wastewater generated within and without the boundaries of the Metropolitan Sewerage District which system of interceptor and collector sewers and wastewater treatment facility, together with additional facilities which may be acquired by **MSD** is sometimes herein referred to as the “District Sewerage System”; and

**WHEREAS, MSD** has had prepared a master plan for its system of interceptor and collector sewers ( the “Master Plan”), and the Master Plan calls for the construction of a new interceptor sewer with pipe size 16 inches, said interceptor being sized to serve a portion of the Reems Creek Valley; and

**WHEREAS, Windsor** owns an approximately twenty-two acre tract in the Reems Creek Valley which it desires to develop for residential purposes and connect via gravity sewer to the District Sewerage System:

**WHEREAS**, the **Windsor** Property is not currently served by gravity sewer; and is not currently connected to the District Sewerage System; and

**WHEREAS**, **Windsor** is willing to pay the cost of constructing an eight-inch interceptor sewer of sufficient length and capacity to provide gravity sewer service to its Real Property; but not to the portion of the Reems Creek Valley envisioned to be served in the Master Plan; and

**WHEREAS**, **MSD**, in order to facilitate the orderly growth of the District Sewerage System in the Reems Creek Valley, to preserve and promote the health and welfare of the District and to carry out its Master Plan, is willing to pay the estimated difference in cost between an eight-inch interceptor line sufficient to serve only the **Windsor** property and the sixteen-inch line necessary to serve that portion of the Reems Creek Valley envisioned in the Master Plan; and

**WHEREAS**, the **MSD** Board previously approved the expenditure of up to \$22,900 to pay the cost of upgrading the Reems Creek Master Plan Interceptor Sewer Extension Phase II from an eight-inch line to a sixteen-inch line; and

**WHEREAS**, **MSD** has prepared plans and specifications for the Reems Creek Master Plan Interceptor Sewer Extension, Phase II , and has acquired all necessary rights of way for the Interceptor; and

**WHEREAS**, as more fully set forth below, **Windsor** is willing to construct a portion of the Reems Creek Master Plan Interceptor Sewer Extension, Phase II, provided that MSD reimburse **Windsor** for a portion of the costs of said construction; and

**WHEREAS**, **MSD** shall obtain all necessary permits for the construction of the Reems Creek Master Plan Interceptor Sewer Extension, Phase II.

**NOW THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which the parties do hereby acknowledge, the parties agree as follows:



1. **Windsor** will contract with a well-qualified, experienced, and financially sound utility contractor currently licensed in North Carolina and satisfactory to **MSD**, to build the following portions of the Reems Creek Master Plan Interceptor Sewer Extension, Phase II, MSD Project No. 2015025; For the purposes of this Agreement, the portion to be constructed shall be referred to herein as the “ Reems Creek Interceptor Phase II.” The Contractor shall be required to provide and maintain in force (until the project is complete) a payment bond and a performance bond in the amount of 100 % of the Reems Creek Interceptor Phase II construction contract amount. **Windsor** and **MSD** shall be named beneficiaries under said bond. The bonds shall meet the requirements of Chapter 44A of the North Carolina General Statutes.

2. The Reems Creek Interceptor Phase II will be constructed in a good and workmanlike manner, in accordance with the plans and specifications prepared by **MSD** dated \_\_\_\_\_, 2015 and in accordance with the requirements of all permits obtained by **MSD**. A copy of the plans, specifications and permits will be provided to **Windsor**, and the plans, specifications and permits are incorporated into and made a part of this Agreement by reference.

3. **Windsor** and its contractor will be given access to all rights of way and easements acquired by **MSD** for the Reems Creek Interceptor Phase II. Construction of the Reems Creek Interceptor Phase II shall be completely contained within the easements acquired for this purpose. **Windsor** shall be responsible for and shall defend, indemnify and hold **MSD** harmless from any and all claims for damages resulting from any work occurring outside the easements and rights of way obtained by **MSD**. For each right of way parcel, **MSD** shall provide **Windsor** with copies of all Special Conditions and Special Provisions Detail Sheets. **Windsor** and its contractor will be responsible for complying with all Special Conditions and Special Provisions Detail Sheets for each Right of Way parcel. The Special Provisions Detail Sheets for all the parcels are in the Specifications book dated \_\_\_\_\_ which is incorporated into and made a part of this Agreement by reference. All property owners affected by the project shall be given a minimum of two weeks notice prior to activity on their parcel unless more notice is required by the Special Provisions Detail Sheets. **Windsor** agrees to defend, indemnify and hold harmless **MSD** from and against claims for injury to persons or property arising out of or relating to the

construction of Reems Creek Interceptor. This obligation to defend, indemnify and hold harmless **MSD** shall not be construed to cover a claim against **MSD** where the claim arises out of the negligence of **MSD**, its employees or agents.

4. **Windsor** and **MSD** acknowledge and agree that the estimated cost of upsizing that portion of the Reems Creek Interceptor Phase II to be constructed by **Windsor** is \$22,900.00. **MSD** and **Windsor** agree that **MSD** shall make no additional reimbursement or payments to **Windsor** except as set forth in this Agreement, other than payments to **Windsor** consistent with **MSD** policy when other property owners tie into the Reems Creek Interceptor Phase II constructed by **Windsor**.

5. **MSD** agrees to reimburse **Windsor** the amounts set forth in paragraph 4, said reimbursement to be paid in full, at full project completion. Full project completion for the Reems Creek Interceptor Phase II shall be defined as:

- 1) All construction and line testing is 100% complete and passing.
- 2) All applicable permitting requirements are satisfied, including, but not limited to, restoration of pre-construction contours as defined in paragraph 9 below.
- 3) All restoration on private properties, excepting **Windsor's**, is 100% complete.
- 4) Final closeout documents including the As-Built Survey and the Contractor's certification is complete and accepted.
- 5) The Reems Creek Interceptor Phase II is fully accepted by the Board of the Metropolitan Sewerage District.

Completion shall be determined by the **MSD** engineer who prepared the plans and specifications for the Reems Creek Interceptor Phase II. Upon full project completion, **MSD** shall notify **Windsor** in writing of such satisfactory completion of the work and **MSD** shall thereafter immediately reimburse **Windsor** as provided in paragraphs 4 and 5.

6. **MSD** will employ construction inspectors, at its expense, to inspect the construction of the Reems Creek Interceptor Phase II. **Windsor** understands that a preconstruction meeting must be held with **MSD** prior to start of any work. **Windsor** and its contractor further agree to coordinate all sewer construction activities with **MSD** to facilitate timely completion and restoration of affected areas.

7. Changes to the project made in the field must be reviewed and approved by **MSD** prior to implementation. It shall be the responsibility of **Windsor** and its contractor to make **MSD's** Project Engineer aware of any proposed change(s) and to obtain approval for the change(s) from **MSD**. Upon receipt of a request for a change or changes in the project design and/or construction, **MSD** will promptly review such change(s) and shall indicate approval or denial of such change(s) within reasonable time of receipt thereof. Any proposed change which shall affect the quality of the design, the integrity of the sewer system, additional costs to **MSD** or any matter involving right of way revisions shall be submitted in writing by **Windsor** and shall be approved/disapproved in writing by **MSD**.

8. **MSD** reserves the right to make changes in the design of and specifications for the Project, as necessary, or as required by physical conditions or permit requirements. Any such changes will be reviewed with **Windsor** and its contractor. To the extent such changes increase the cost of the Reems Creek Interceptor Phase II, **MSD** and **Windsor** shall mutually agree upon reimbursement to **Windsor**, for such increase in cost.

9. **MSD** will stake the limits of the floodway of Reems Creek as required by Buncombe County prior to the beginning of construction. **MSD** will also stake the floodway of Reems Creek upon completion of construction. **Windsor** shall require its contractor to restore areas affected by the work to pre-construction contours, or to those contours as directed or specified by permitting agencies, if different.

10. Upon completion of construction, **Windsor** will convey the Reems Creek Interceptor Phase II to **MSD**. Such conveyance will be by instrument in form and content similar to Exhibit A attached hereto. Upon finding the conveyance is in accord with relevant provisions of its bond



order, and applicable law, **MSD** will accept such conveyance of the Reems Creek Interceptor Phase II .

11. Within thirty (30) days of receipt of the Contractor's Certification required by paragraph 5(4) above, **MSD** will provide Engineer's Certification for the project. **Windsor** will be responsible for as-built survey (by NC Licensed Surveyor) and contractor's certification for the project. The contractor's certification shall include a one year warranty.

12. This Agreement shall be governed by and under the laws of the State of North Carolina and any litigation hereunder shall be in the General Court of Justice for the 28th Judicial District of North Carolina.

13. This Agreement represents the entire agreement between **MSD** and **Windsor** with respect to the subject matter hereof. Any amendment to this agreement shall be in writing and signed by the parties hereto.

**IN WITNESS WHEREOF**, the parties have executed this agreement by and through their respective, duly authorized representatives as the day and year first above written.

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

By: \_\_\_\_\_  
Thomas E. Hartye, P.E. General Manager

**WINDSOR BUILT HOMES , INC.**

By: \_\_\_\_\_  
Drew Norwood, President.

# Metropolitan Sewerage District of Buncombe County, North Carolina

## CAPITAL IMPROVEMENT PROGRAM

### BUDGET DATA SHEET - FY 2015 - 2016

PROJECT:	Reems Creek MP Int. Ph. 2	LOCATION:	Weaverville
TYPE:	Reimbursement	PIPE RATING:	N/A
PROJECT NO.	2015025	TOTAL LF:	0
PROJECT BUDGET:	\$26,550.00	PROJECT ORIGIN:	Collection System Master Plan

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/14	EST. COST JAN - JUNE 2015	BUDGET FY 15-16
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN				
55330 - DESIGN				
55340 - PERMITS	\$650.00			\$650.00
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS				
55370 - LEGAL FEES				
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION				
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$22,900.00			\$22,900.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING	\$1,000.00			\$1,000.00
55450 - SURVEY - ASBUILT	\$2,000.00			\$2,000.00
<b>TOTAL AMOUNT</b>	<b>\$26,550.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$26,550.00</b>

ENGINEER:	MSD	RW	<b>ESTIMATED BUDGETS - FY '16 -'25</b>	
R.O.W. ACQUISITION:	MSD	# PLATS: [ 0 ]	FY 16-17	\$0.00
CONTRACTOR:			FY 17-18	\$0.00
CONSTRUCTION ADM:	MSD		FY 18-19	\$0.00
INSPECTION:	MSD		FY 19-20	\$0.00
			FY 20-21	\$0.00
			FY 21-22	\$0.00
			FY 22-23	\$0.00
			FY 23-24	\$0.00
			FY 24-25	\$0.00
<b>PROJECT DESCRIPTION:</b> This is a project along Reems Creek, East of Weaverville, NC. It is a Master Plan extension and MSD will reimburse the developer upon completion of the line. The line is approximately 712 LF of 16-inch ductile iron pipe.				
<b>SPECIAL PROJECT NOTES:</b>	Master Plan Extension		L.F.	712





**Reems Creek Master Plan Interceptor  
Project No. 2015025**

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:** July 15, 2015

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

**PREPARED BY:** Kevin Johnson

**REVIEWED BY:** Ed Bradford, P.E., Engineering Director

**SUBJECT:** Acceptance of Developer Constructed Sewer System for the 51 Gash Farm Road Sewer Extension Project, MSD Project No. 2014030

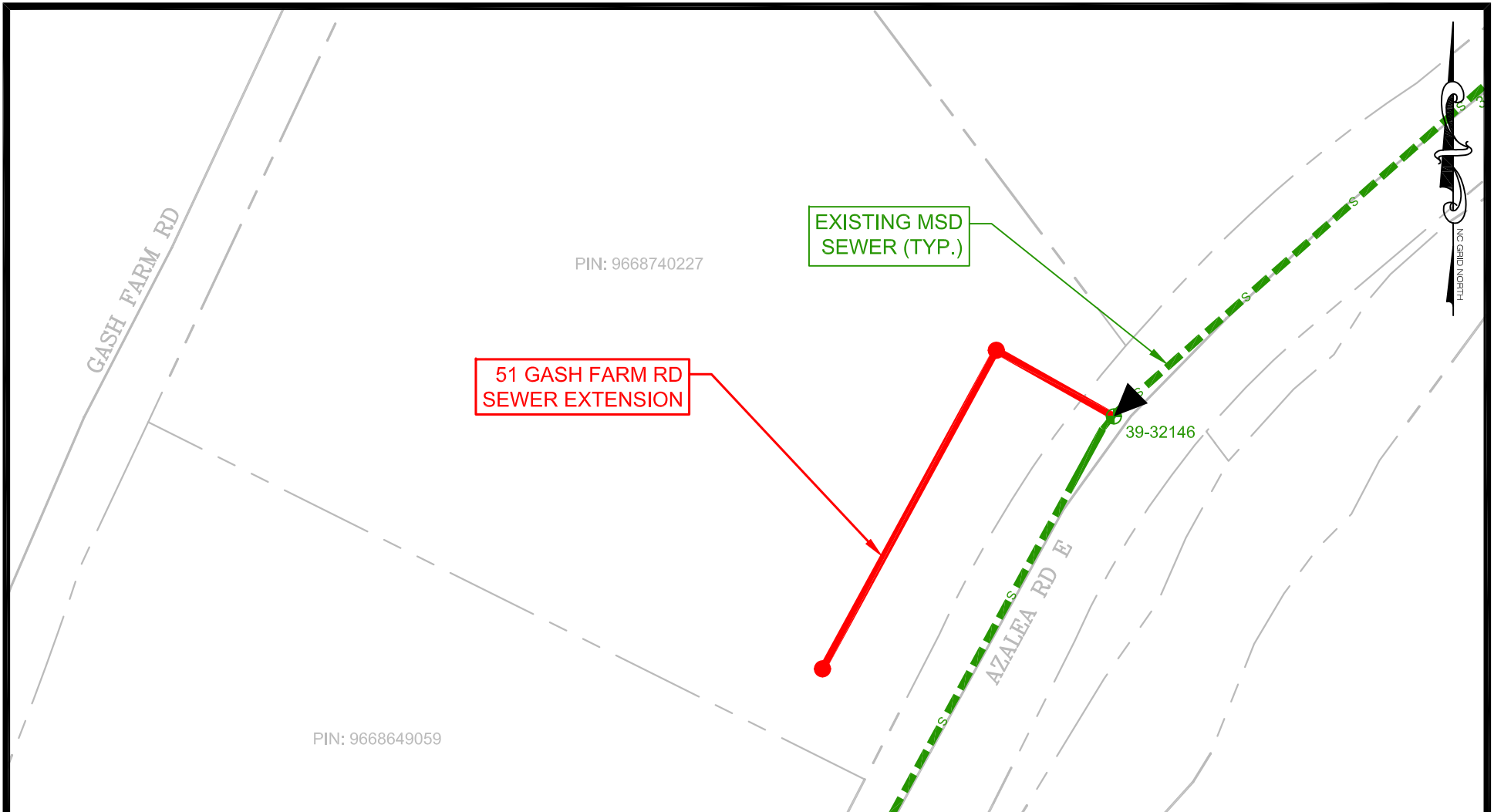
**BACKGROUND:** This project is located inside the District boundary off Gash Farm Road in the City of Asheville. The developer of the project is Andrew Kucera.

The project included extending approximately 168 linear feet of 8-inch public gravity sewer to serve the four (4) unit residential development.

A wastewater allocation was issued in the amount of 1,000 GPD for the project. The estimated cost of the sewer construction is \$35,000.00.

All MSD requirements have been met.

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



**MSD**

Engineering Division

# 51 GASH FARM ROAD SEWER EXTENSION PROJECT #2014030

Metropolitan Sewerage District of Buncombe County

5/28/15

Scale: 1" = 50'

The Metropolitan Sewerage District of Buncombe County, NC has prepared these maps based on best available information for use in assisting District maintenance work, service area analysis, and planning. The District does not warrant the accuracy of any of the information shown. Field verification is advised for all information shown on the maps or included with manhole data. No guarantee is given as to the accuracy or currency of any of the data. Therefore, in no event shall the District be liable for any special, indirect, or consequential damages or any damages whatsoever resulting from loss of use, data, or profits, whether in an action of contract, negligence, or other action, arising out of or in connection with the use of the information herein provided. Grid shown is North Carolina State Plane Coordinate System NAD 1983 (North American Datum 1983).

# Metropolitan Sewerage District of Buncombe County

## Board Action Item

**BOARD MEETING DATE:** July 15, 2015

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

**PREPARED BY:** Kevin Johnson

**REVIEWED BY:** Ed Bradford, P.E., Engineering Director

**SUBJECT:** Acceptance of Developer Constructed Sewer System for the New Belgium Distribution Center Sewer Extension Project, MSD Project No. 2014044

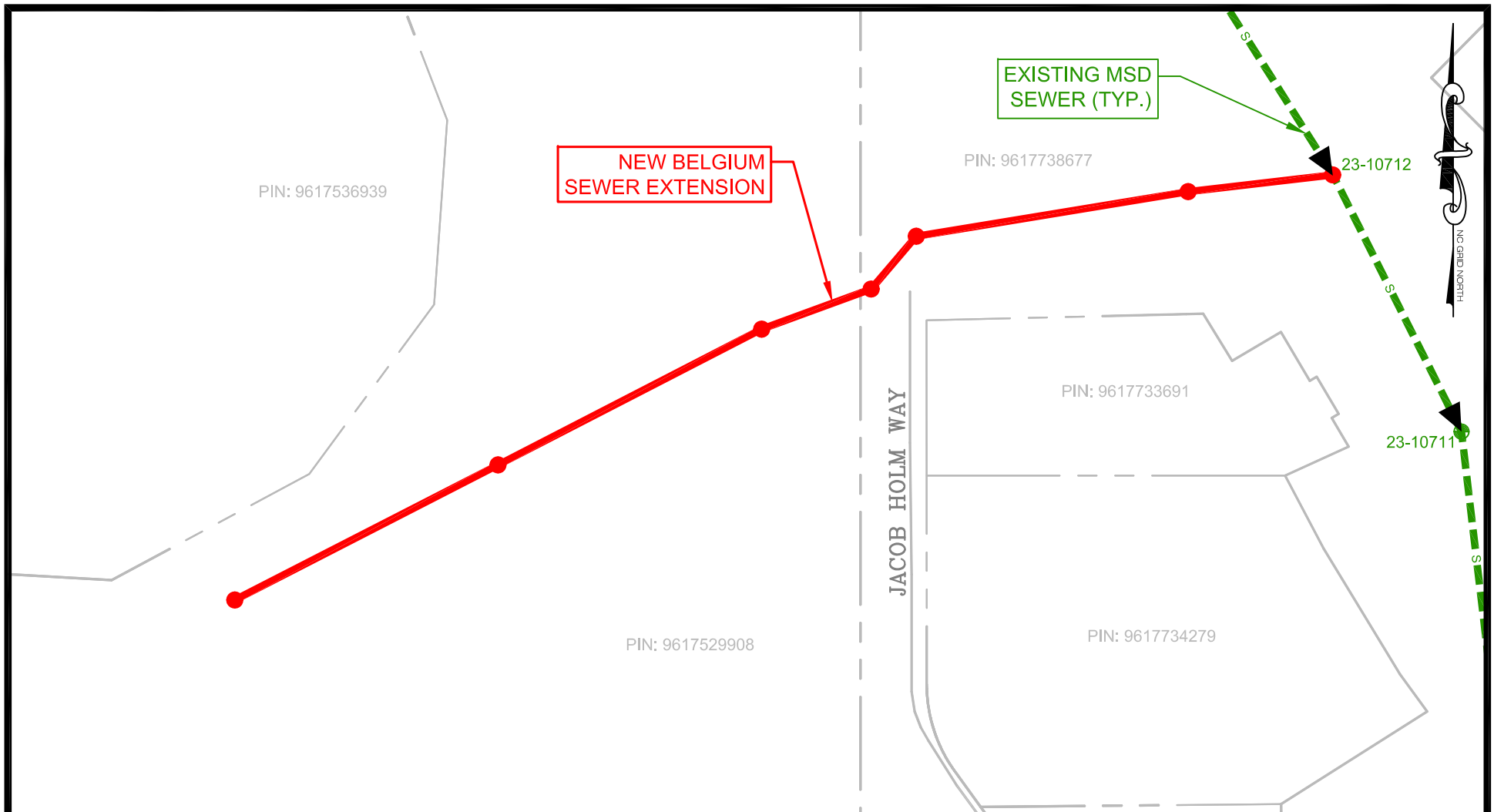
**BACKGROUND:** This project is located inside the District boundary off Jacob Holm Way in Buncombe County. The developer of the project is William Newman of Fletcher Partners, Inc.

The project included extending approximately 1,621 linear feet of 8-inch public gravity sewer to serve the commercial development.

A wastewater allocation was issued in the amount of 1,200 GPD for the project. The estimated cost of the sewer construction is \$75,000.00.

All MSD requirements have been met.

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



**MSD**

Engineering Division

## NEW BELGIUM DISTRIBUTION WAREHOUSE SEWER EXTENSION PROJECT #2014044

Metropolitan Sewerage District of Buncombe County

5/28/15

Scale: 1" = 200'

The Metropolitan Sewerage District of Buncombe County, NC has prepared these maps based on best available information for use in assisting District maintenance work, service area analysis, and planning. The District does not warrant the accuracy of any of the information shown. Field verification is advised for all information shown on the maps or included with manhole data. No guarantee is given as to the accuracy or currency of any of the data. Therefore, in no event shall the District be liable for any special, indirect, or consequential damages or any damages whatsoever resulting from loss of use, data, or profits, whether in an action of contract, negligence, or other action, arising out of or in connection with the use of the information herein provided. Grid shown is North Carolina State Plane Coordinate System NAD 1983 (North American Datum 1983).



# Metropolitan Sewerage District of Buncombe County

## Board Action Item

**BOARD MEETING DATE:** July 15, 2015

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

**PREPARED BY:** Kevin Johnson

**REVIEWED BY:** Ed Bradford, P.E., Engineering Director

**SUBJECT:** Acceptance of Developer Constructed Sewer System for the Palisades of Asheville Sewer Extension Project, MSD Project No. 2013024

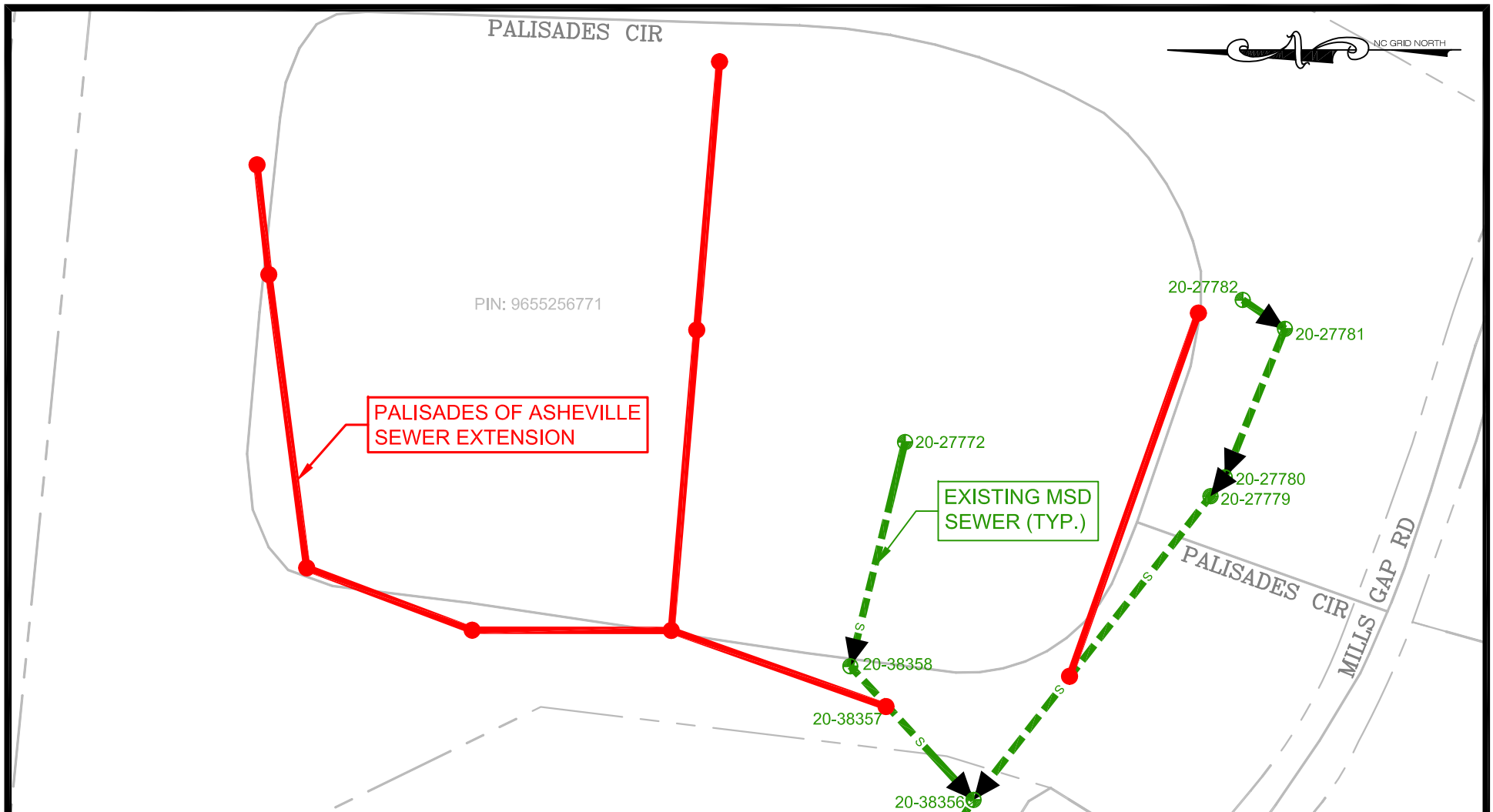
**BACKGROUND:** This project is located inside the District boundary off Mills Gap Road in the City of Asheville. The developer of the project is William Ratchford of Southwood Realty.

The project included extending approximately 1,424 linear feet of 8-inch public gravity sewer to serve the residential apartment complex.

A wastewater allocation was issued in the amount of 44,750 GPD for the project. The estimated cost of the sewer construction is \$95,000.00.

All MSD requirements have been met.

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



**MSD**

Engineering Division

## PALISADES OF ASHEVILLE SEWER EXTENSION PROJECT #2013024

Metropolitan Sewerage District of Buncombe County

6/26/15

Scale: 1" = 100'

The Metropolitan Sewerage District of Buncombe County, NC has prepared these maps based on best available information for use in assisting District maintenance work, service area analysis, and planning. The District does not warrant the accuracy of any of the information shown. Field verification is advised for all information shown on the maps or included with manhole data. No guarantee is given as to the accuracy or currency of any of the data. Therefore, in no event shall the District be liable for any special, indirect, or consequential damages or any damages whatsoever resulting from loss of use, data, or profits, whether in an action of contract, negligence, or other action, arising out of or in connection with the use of the information herein provided. Grid shown is North Carolina State Plane Coordinate System NAD 1983 (North American Datum 1983).

## **Metropolitan Sewerage District of Buncombe County Board Action Item**

**Meeting Date:** July 15, 2015

**Subject:** Consideration of Procurement – Calcium Nitrate Solution for  
Odor and Hydrogen Sulfide Control Contract

**Prepared by:** Peter Weed; Director – WRF Treatment and Maintenance  
Monty Payne – Field Operations Manager  
Julie Willingham, CLGPO - Purchasing Supervisor

**Reviewed by:** Tom Hartye, PE - General Manager  
W. Scott Powell, CLGFO - Finance Director  
Billy Clarke - District Counsel

**Background:** MSD has been using a calcium nitrate based solution for the last few years to control hydrogen sulfide formation in the South French Broad Interceptor. Hydrogen sulfide is formed in wastewater after bacteria has used most of the available oxygen. It has a predominate rotten egg odor and is easily broken out of the wastewater. When in the air space in a sewer line, it also converts to sulfuric acid which erodes the inside of sewer pipes. Calcium nitrate has proven to be effective in combating the formation of hydrogen sulfide and preventing the degradation of the collection system.

**Discussion:** Pursuant to North Carolina Purchasing Statutes and MSD Procedures, on May 04, 2015, bids were emailed to five vendors and an advertisement was placed on the MSD web site. Two bids were received and the bid opening was held May 18, 2015. Southern Environmental Systems was the lowest bidder at \$2.06/gallon and agrees to hold their price firm for the total year contract irrespective of market changes. Southern Environmental Systems has been a supplier of calcium nitrate solution to MSD in previous years and MSD staff feels comfortable with both the quality of the chemicals and the customer service supplied by Southern Environmental Systems.

**Fiscal Impact:** This is a Unit Price Contract, without minimum or maximum quantities. Based on an estimated use of 90,000 gallons at \$2.06/gallon, the annual expenditure for calcium nitrate solution is anticipated to be \$185,400.00 and is within levels budgeted by the WRF.

**Staff Recommendation:** Staff recommends that the Board award the contract for the supply of calcium nitrate solution to Southern Environmental Systems at a unit price of \$2.06/gallon.

**Bid Review:**

Vendor	Price per Gallon	Extended based on 90,000 est. gal	Comments
Southern Environmental Systems, Newberry, SC	\$2.06	\$185,400.00	Price good for one year
Evoqua Sarasota, FL	\$2.14	\$192,600.00	Price good for one year
ZJD Sourcing, NV	Non- responsive		
Specialty Chemical, Cleveland, TN	No Bid		
C & C Chemical, Asheville, NC	Non- responsive		

# Metropolitan Sewerage District of Buncombe County

## BOARD INFORMATIONAL ITEM

**Meeting Date:** July 15, 2015

**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 May 31, 2015

### **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 May 31, 2015 were \$54,310,671. The detailed listing of accounts is available upon request. The average rate of return for all investments is 0.413%. 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 May 31, 2015 do not reflect contractual commitments or encumbrances against said funds. Shown below are the total investments as of May 31, 2015 reduced by contractual commitments, bond funds, and District reserve funds. The balance available for future capital outlay is \$31,536,996.

Total Cash & Investments as of 05/31/2015		54,310,671
Less:		
Budgeted Commitments (Required to pay remaining FY14 budgeted expenditures from unrestricted cash)		
Construction Funds	(7,512,457)	
Operations & Maintenance Fund	(2,375,202)	
		(9,887,659)
Bond Restricted Funds		
Bond Service (Funds held by trustee):		
Funds in Principal & Interest Accounts	(98,700)	
Remaining Principal & Interest Due	(7,622,615)	
		(7,721,315)
District Reserve Funds		
Fleet Replacement	(489,185)	
WWTP Replacement	(442,279)	
Maintenance Reserve	(913,282)	
		(1,844,747)
District Insurance Funds		
General Liability	(557,559)	
Worker's Compensation	(361,120)	
Post-Retirement Benefit	(1,480,829)	
Self-Funded Employee Medical	(920,446)	
		(3,319,954)
Designated for Capital Outlay		<u>31,536,996</u>

### **Staff Recommendation**

None. Information Only.

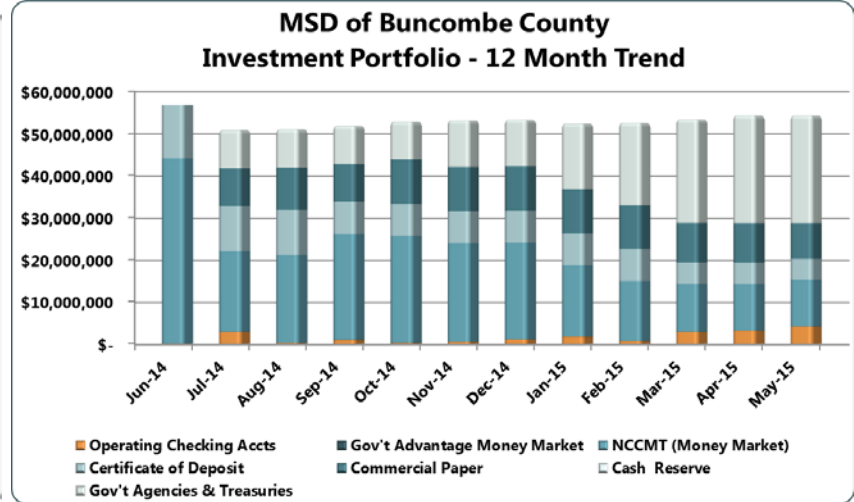
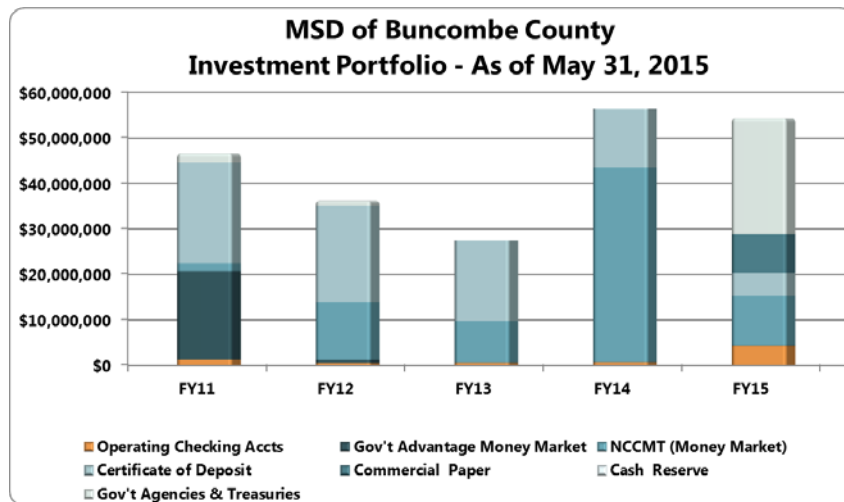
#### **Action Taken**

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

### Metropolitan Sewerage District of Buncombe County Investment Portfolio

	Operating Checking Accounts	Gov't Advantage Money Market	NCCMT (Money Market)	Certificate of Deposit	Commercial Paper	Cash Reserve	Gov't Agencies & Treasuries	Total
Held with Bond Trustee	\$ -	\$ -	\$ 98,700	\$ -	\$ -	\$ -	\$ -	\$ 98,700
Held by MSD	4,296,100	46,664	10,859,360	5,026,796	8,493,984	-	25,489,067	54,211,971
	\$ 4,296,100	\$ 46,664	\$ 10,958,060	\$ 5,026,796	\$ 8,493,984	\$ -	\$ 25,489,067	\$ 54,310,671

Investment Policy Asset Allocation	Maximum Percent	Actual Percent	
U.S. Government Treasuries,			
Agencies and Instrumentalities	100%	46.93%	No significant changes in the investment portfolio as to makeup or total amount.
Bankers' Acceptances	20%	0.00%	
Certificates of Deposit	100%	9.26%	The District 's YTM of .53% is exceeding the YTM benchmarks of the
Commercial Paper	20%	15.64%	6 month T-Bill and NCCMT Cash Portfolio.
North Carolina Capital Management Trust	100%	20.18%	
Checking Accounts:	100%		All funds invested in CD's, operating checking accounts, Gov't Advantage money market
Operating Checking Accounts		7.91%	are fully collateralized with the State Treasurer.
Gov't Advantage Money Market		0.09%	



**METROPOLITAN SEWERAGE DISTRICT  
INVESTMENT MANAGERS' REPORT  
At May 31, 2015**

**Summary of Asset Transactions**

	Original Cost	Market	Interest Receivable
Beginning Balance	\$ 48,976,769	\$ 48,976,769	\$ 417,181
Capital Contributed (Withdrawn)	(818,059)	(818,059)	
Realized Income	1,333	1,333	(9,207)
Unrealized/Accrued Income		-	19,280
Ending Balance	<u>\$ 48,160,043</u>	<u>\$ 48,160,043</u>	<u>\$ 427,254</u>

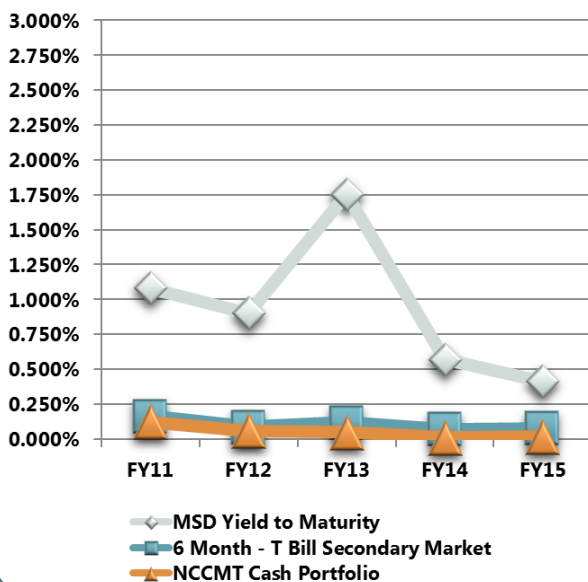
**Value and Income by Maturity**

	Original Cost	Income
Cash Equivalents <91 Days	\$ 17,644,180	\$ 4,179
Securities/CD's 91 to 365 Days	17,517,983	4,149
Securities/CD's > 1 Year	12,997,880	3,078
	<u>\$ 48,160,043</u>	<u>\$ 11,405</u>

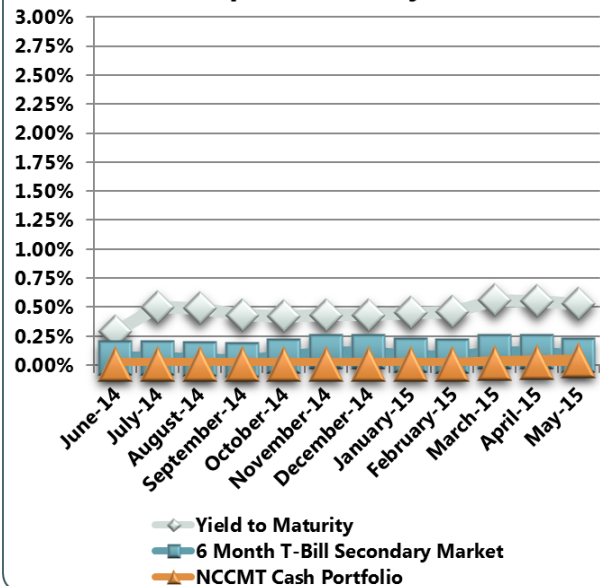
**Month End Portfolio Information**

Weighted Average Maturity	323
Yield to Maturity	0.53%
6 Month T-Bill Secondary Market	0.08%
NCCMT Cash Portfolio	0.04%

**Metropolitan Sewerage District  
Annual Yield Comparison**



**Metropolitan Sewerage District  
Yield Comparison - May 31, 2015**





**Board Meeting:**

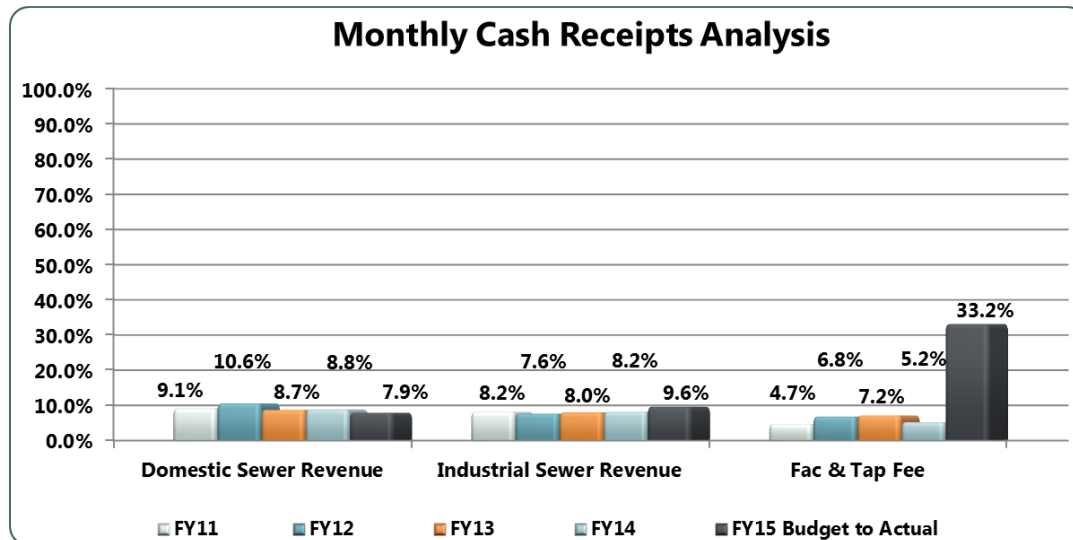
July 15, 2015

**Subject:**

Cash Commitment/Investment Report-Month Ended May 31, 2015

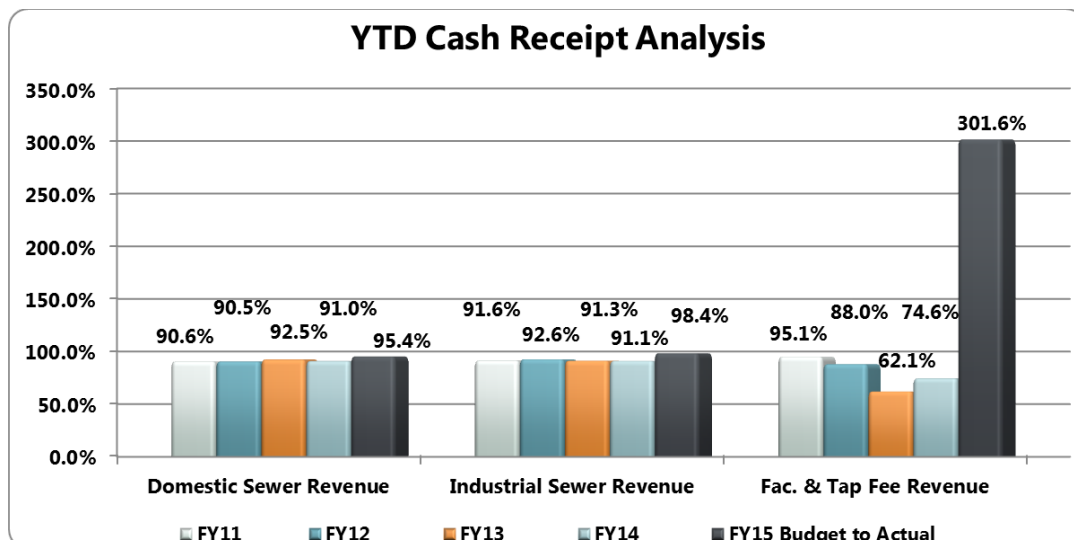
Page -4-

**METROPOLITAN SEWERAGE DISTRICT  
ANALYSIS OF CASH RECEIPTS  
As of May 31, 2015**



**Monthly Cash Receipts Analysis:**

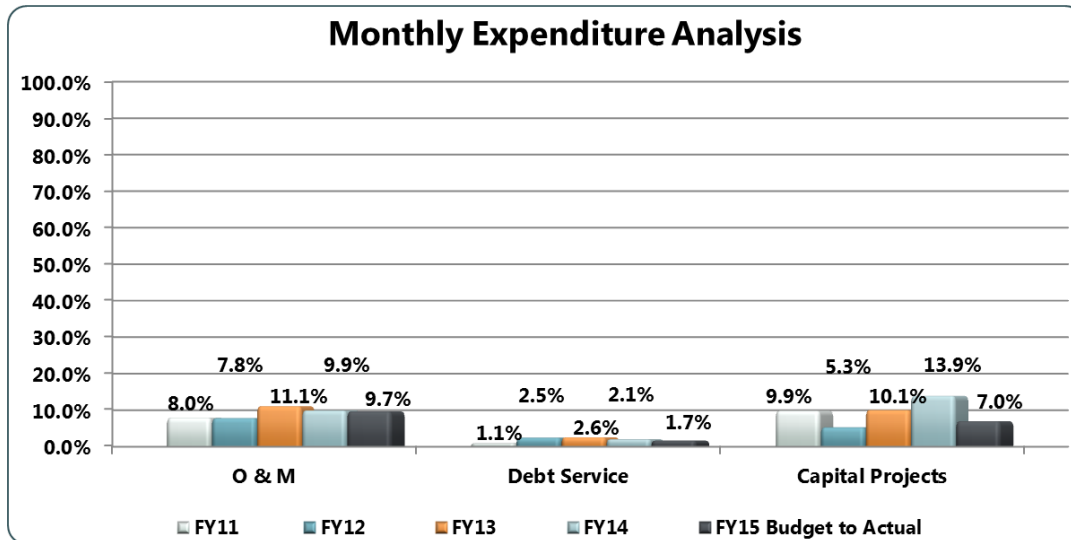
- ▶ Monthly domestic sewer revenue is considered reasonable based on timing of cash receipts in their respective fiscal periods.
- ▶ Monthly industrial sewer revenue is reasonable based on historical trends.
- ▶ Due to the unpredictable nature of facility and tap fee revenue, staff considers facility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



**YTD Actual Revenue Analysis:**

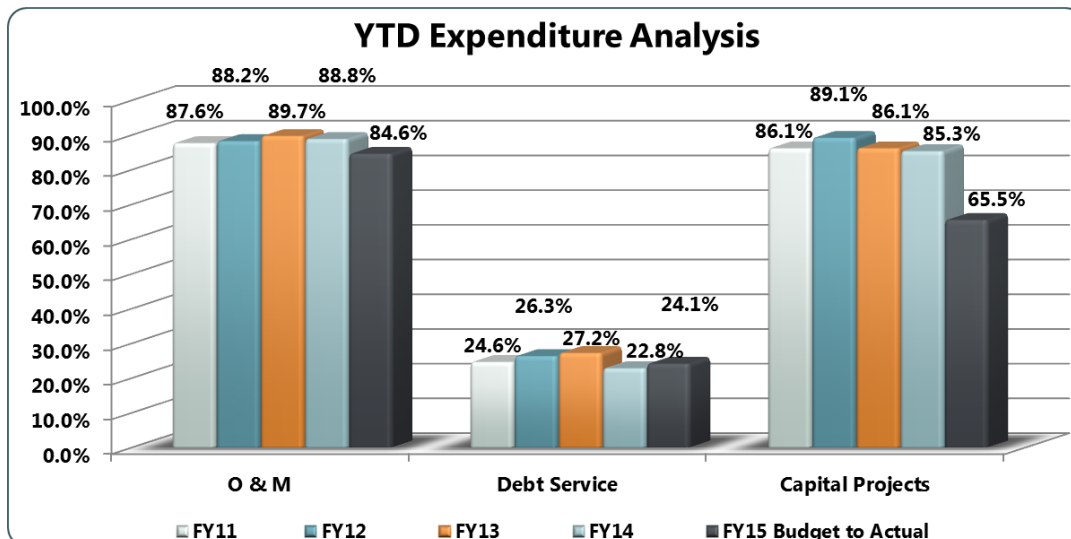
- ▶ YTD domestic sewer revenue is considered reasonable based on historical trends.
- ▶ YTD industrial sewer revenue is reasonable based on historical trends.
- ▶ Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap fee revenue reasonable.

**METROPOLITAN SEWERAGE DISTRICT  
ANALYSIS OF EXPENDITURES  
As of May 31, 2015**



**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.

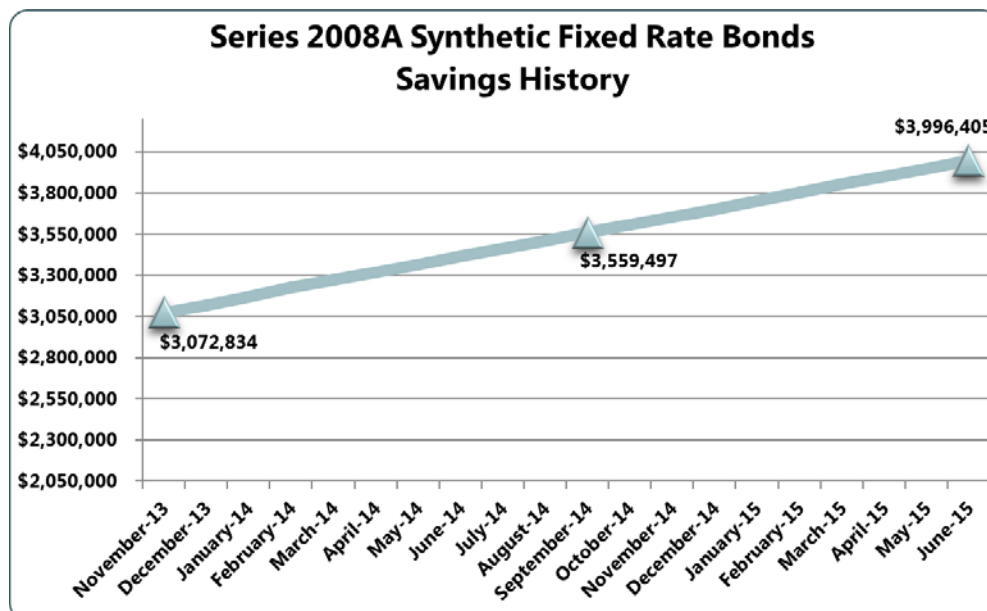
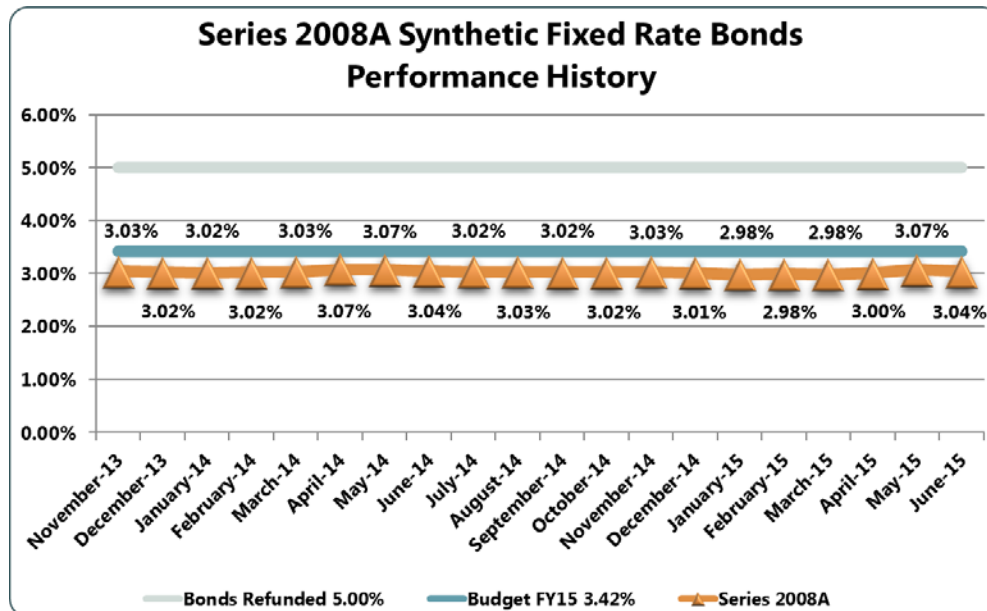


**YTD Expenditure Analysis:**

- 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.

**Board Meeting:** July 15, 2015  
**Subject:** Cash Commitment/Investment Report-Month Ended May 31, 2015  
Page -6-

**METROPOLITAN SEWERAGE DISTRICT  
VARIABLE DEBT SERVICE REPORT  
As of June 30, 2015**



**Series 2008A:**

- ✦ Savings to date on the Series 2008A Synthetic Fixed Rate Bonds is \$3,996,405 as compared to 4/1/2008 fixed rate of 4.85%.
- ✦ Assuming that the rate on the Series 2008A Bonds continues at the current all-in rate of 3.9475%, MSD will achieve cash savings of \$4,670,000 over the life of the bonds.
- ✦ MSD would pay \$4,468,234 to terminate the existing Bank of America Swap Agreement.

# **STATUS REPORTS**

MSD SYSTEM SERVICES IN-HOUSE CONSTRUCTION FY 14-15 PIPELINE REHABILITATION PROJECTS								
PROJECT NAME	LOCATION	ESTIMATED FOOTAGE	ESTIMATED PROJECT DATES	WO#	CREW	COMPLETION DATE	ACTUAL FOOTAGE	NOTES
Westwood Road Phase 2	N. asheville	400	6/25/14 - 7/4/14	215883	667	7/3/2014	400	complete
Penelope Street	Black Mountain	400	7/14/14 - 8/15/14	210161	667	7/24/2014	415	complete
Shiloh Road	Asheville	350	7/15/14 - 7/31/14	210233	631	8/1/2014	354	complete
995 West Chapel Rd	Asheville	100	8/1/14 - 8/15/14	211782	631	8/7/2014	60	complete
Emory Road	W. Asheville	300	7/25/14 - 8/15/14	210231	667	8/11/2014	290	complete
Haywood Street P. S. and FM	Asheville	225	8/18/14 - 9/5/14	216297	631	8/22/2014	305	complete
Springside Drive	W. Asheville	522	8/16/14 - 9/10/14	205995	667	9/15/2014	631	complete
Woodbury Rd -91 Carter Cove	N. Asheville	239	9/11/14 - 9/29/14	217394	667	9/29/2014	220	complete
Terre Drive / Dunwood Road	N. Asheville	308	9/30/14 - 10/31/14	218077	667	10/20/2014	405	complete
Hickory Court	Arden/Royal Pines	1633	9/8/14 - 10/17/14	39866	631	10/24/2014	1631	complete
190 Tunnel Rd Sewer Replacement	Asheville	255	11/3/14 - 11/5/14	218034	667	10/27/2014	264	complete
N. Anne St.	Asheville	550	10/23/14 - 11/23/14	44181	631	11/14/2014	598	complete
809 Patton Avenue	Asheville	112	11/24/14 - 11/25/14	219718	647	11/25/2014	112	complete
Biltmore Forest County Club Sewer Replacements Phase 1	Biltmore Forest	1000	11/3/14 - 12/15/14	218277	647	12/10/2014	1080	complete
6 Hilderbrand Street	Asheville	400	12/11/14 - 12/31/14	46649	647	12/31/2014	368	complete
Sunset Drive @ Bee Tree Road	Swannanoa	1055	11/17/14 -1/7/15	219327	631	12/31/2014	1086	complete
E Skyview Circle PSR	Woodfin	400	1/12/15 - 1/21/15	217301	631	1/21/2015	361	complete
Rumbough Place	W. Asheville	710	1/19/14 - 2/16/14	201105	631	2/4/2015	717	complete
Campus Drive (UNCA)	Asheville	335	1/5/15 - 2/5/15	210230	647	2/5/2015	355	complete
1091 Patton Avenue (@ Tastee Freez)	Asheville	80	2/3/15 -2/7/15	221418	631	2/9/2015	88	complete
Dilling Avenue	Black Mountain	692	2/6/15 - 3/9/15	221464	631	3/12/2015	684	complete
224 Beverly Road	Asheville	55	3/20/15 - 3/24/15	217554	614	3/24/2015	55	complete
165 Old County Home Road	Asheville/Leicester	1,100	2/6/15 - 4/1/15	33885	647	3/30/2015	1140	complete
138 Waynesville Ave. Emergency Rehab	W. Asheville	31	4/1/2014	222881	614	4/1/2015	31	complete
Vance Avenue (Dilling Ave Ph. 2)	Black Mountain	960	3/10/15 - 4/17/15	222586	631	4/20/2015	951	complete
Pond Lane Emergency Sanitary Sewer Rehabilitation	N. Asheville (Beaverdam)	400	3/27/15 - 4/ 15/15	222687	647	4/20/2015	386	complete
Tryon Street Emergency Rehabilitation	W. Asheville	100	4/22/15-4/28/15	222231	647	4/28/2015	132	complete
Wake Robin Sewer Rehabilitation	Haw Creek	120	4/27-15 - 4/29/15	222803	614	4/28/2015	120	complete
Tacoma Circle	Asheville	700	4/20/15 - 5/13/15	221217	631	5/11/2015	712	complete
27 Lane Avenue	West Asheville	400	5/8/15 - 5/22/15	221454	647	5/21/2015	350	complete
S Oak Forest Rehab	Arden	695	5/25/15 -6/12/15	224182	647	6/19/2015	718	complete
Biltmore Forest County Club Sewer Replacement Ph 2	Biltmore Forest	150	6/18/2015	225254	647	6/18/2015	116	complete
Deanwood Circle Phase 1	Asheville	561	5/14/15 - 6/30/15	202207	631	6/30/2015	561	complete



## CONSTRUCTION TOTALS BY DATE COMPLETED - Monthly

From 7/1/2014 to 5/31/2015

	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 2014	41	20	193	908	26	18	3,800	0	235	415	7	400	1050
August 2014	40	11	219	536	29	11	200	0	143	674	8	330	1147
September 2014	37	10	154	650	44	23	1,345	0	16	856	8	0	872
October 2014	28	13	219	644	30	23	420	0	204	405	22	2,075	2684
November 2014	19	8	51	606	28	18	0	0	234	598	4	0	832
December 2014	40	6	118	715	41	18	1,383	0	654	1592	21	942	3188
January 2015	31	8	78	833	25	21	595	73	420	201	4	160	854
February 2015	31	4	32	615	27	21	100	112	378	355	9	805	1650
March 2015	31	20	112	681	34	17	155	0	321	1824	15	0	2145
April 2015	39	15	150	700	35	20	250	0	203	549	11	1,071	1823
May 2015	30	11	244	529	36	22	4,450	0	215	298	8	764	1277
<b>Grand Totals</b>	<b>367</b>	<b>126</b>	<b>1,568</b>	<b>7,418</b>	<b>355</b>	<b>212</b>	<b>12,698</b>	<b>185</b>	<b>3023</b>	<b>7767</b>	<b>117</b>	<b>6,547</b>	<b>17522</b>

\* Used to calculate Total Rehab Footage



## PIPELINE MAINTENANCE TOTALS BY DATE COMPLETED - Monthly

July 01, 2014 to May 31, 2015

	Main Line Wash Footage	Service Line Wash Footage	Rod Line Footage	Cleaned Footage	CCTV Footage	Smoke Footage	SL-RAT Footage
<b>2014</b>							
July	66,005	2,224	3,370	69,315	24,012	650	27,593
August	62,930	1,101	6,357	69,087	32,258	3,150	16,074
September	42,106	2,136	3,299	45,352	24,495	3,650	24,813
October	90,846	1,502	9,854	100,694	35,690	0	3,549
November	61,000	1,210	4,631	65,631	16,007	10	12,239
December	53,482	2,361	7,593	60,910	25,877	400	17,845
<b>2015</b>							
January	71,461	3,848	4,592	76,013	29,687	300	3,732
February	33,353	2,220	2,599	35,952	20,378	300	8,218
March	65,029	3,408	4,569	69,598	32,575	2,700	20,466
April	61,380	2,273	8,150	69,530	27,139	1,450	7,844
May	65,072	2,169	6,990	72,053	31,894	1,300	13,831
<b>Grand Total:</b>	<b>672,664</b>	<b>24,452</b>	<b>62,004</b>	<b>734,135</b>	<b>300,012</b>	<b>13,910</b>	<b>156,204</b>
<b>Avg Per Month:</b>	<b>61,151</b>	<b>2,223</b>	<b>5,637</b>	<b>66,740</b>	<b>27,274</b>	<b>1,265</b>	<b>14,200</b>





## CUSTOMER SERVICE REQUESTS

### Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE RESPONSE TIME	AVERAGE TIME SPENT
<b>DAY 1ST RESPONDER</b>				
	July, 2014	108	33	42
	August, 2014	90	28	34
	September, 2014	98	36	40
	October, 2014	96	31	38
	November, 2014	92	30	39
	December, 2014	103	31	40
	January, 2015	102	36	45
	February, 2015	86	48	50
	March, 2015	132	33	45
	April, 2015	126	33	43
	May, 2015	118	31	45
		<b>1,151</b>	<b>33</b>	<b>42</b>
<b>NIGHT 1ST RESPONDER</b>				
	July, 2014	29	20	18
	August, 2014	28	24	24
	September, 2014	37	22	20
	October, 2014	29	22	23
	November, 2014	10	90	15
	December, 2014	25	49	29
	January, 2015	42	40	24
	February, 2015	23	28	33
	March, 2015	50	34	22
	April, 2015	34	21	32
	May, 2015	27	21	34
		<b>334</b>	<b>30</b>	<b>25</b>
<b>ON-CALL CREW *</b>				
	July, 2014	37	39	48
	August, 2014	33	55	40
	September, 2014	33	47	70
	October, 2014	23	49	49

\* On-Call Crew Hours: 10:30pm-7:30am Monday-Friday, Weekends, and Holidays



## CUSTOMER SERVICE REQUESTS

### Monthly - All Crews

CREW	MONTH	JOB	AVERAGE RESPONSE TIME	AVERAGE TIME SPENT
<b>ON-CALL CREW *</b>				
	November, 2014	47	54	33
	December, 2014	59	55	40
	January, 2015	82	57	50
	February, 2015	48	61	32
	March, 2015	40	63	55
	April, 2015	38	49	48
	May, 2015	47	46	58
		<b>487</b>	<b>53</b>	<b>47</b>
<b>Grand Totals:</b>		<b>1,972</b>	<b>38</b>	<b>40</b>

\* On-Call Crew Hours: 10:30pm-7:30am Monday-Friday, Weekends, and Holidays

**CAPITAL IMPROVEMENT PROGRAM****STATUS REPORT SUMMARY****July 6, 2015**

PROJECT	LOCATION OF PROJECT	CONTRACTOR	AWARD DATE	NOTICE TO PROCEED	ESTIMATED COMPLETION DATE	*CONTRACT AMOUNT	*COMPLETION STATUS (WORK)	COMMENTS
BROADVIEW AVENUE	Oakley	Buckeye Bridge	7/16/2014	9/8/2014	7/30/2015	\$1,127,961.19	95%	Mainline pipe in original contract is complete. Working on surface restoration, curbs and asphalt. Added work to start next week.
CLAYTON ROAD PUMP STATION	Skyland	J.S. Haren Company	11/19/2014	2/23/2015	8/10/2015	\$192,500.00	10%	Digging mainline around Pump Station. Work by contractor is progressing slowly. Contract time has been exceeded. Pump and materials are on site.
FAIRFAX AVENUE PRP	W. Asheville	Terry Brothers	8/20/2014	10/22/2014	7/9/2015	\$558,802.00	98%	Project is complete, awaiting pre-final inspection.
OLD HAYWOOD ROAD @ STARNES COVE ROAD	Asheville	Terry Brothers	10/15/2014	2/16/2015	7/31/2015	\$341,342.00	95%	Mainline construction is complete. Paving will be done this week. Waiting for plumber to re-route house services to existing main line.
ROBINWOOD AVENUE	Asheville	Davis Grading, Inc.	9/17/2014	11/3/2014	7/17/2015	\$457,838.60	98%	Ready for final walk through. Contractor just finished up some work for COA.
SHADOWLAWN DRIVE PHASE I	Asheville	Buchanan & Sons	12/17/2014	1/26/2015	7/31/2015	\$923,946.00	90%	Mainline construction is progressing.
WENDOVER ROAD	Asheville	Davis Grading, Inc.	1/21/2015	3/2/2015	7/17/2015	\$576,269.50	98%	Paving is complete. Ready for pre-final inspection.
WRF - INCINERATOR SYSTEM REHABILITATION AND EMISSIONS UPGRADES	Woodfin	Haren Construction Company	2/18/2015	3/25/2015	2/23/2016	\$4,624,000.00	1%	Contractor is doing exploration on thickened slab where new scrubber is going. Anticipated construction to begin in mid July.

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

# Planning & Development Project Status Report

July 15, 2015

Project Name	Project Number	Work Location	Units	LF	Pre-Construction Conference Date	Comments
Black Mtn. Annex- Blue Ridge Rd.	1992171	Black Mtn.	24	2,560	8/19/2010	Complete- waiting on conveyance
Black Mtn. Annex- McCoy Cove	1992174	Black Mtn.	24	2,067	8/19/2010	Complete- waiting on conveyance
Black Mtn. Annex- Avena Rd.	1999026	Black Mtn.	24	4,300	8/19/2010	Complete- waiting on conveyance
North Point Baptist Church	2008105	Weaverville	Comm.	723	5/20/2009	Complete - Waiting on final documents
AVL Technologies	2010018	Woodfin	Comm.	133	5/21/2010	Complete-Waiting on final documents
UNC-A New Residence Hall	2011047	Asheville	304	404	8/29/2011	Complete-Waiting on final documents
Cottonwood Townhomes	2009110	Black Mtn.	8	580	10/20/2009	Complete-Waiting on final documents
Ramble at Parkway	2013100	Biltmore Forest	TBD	335	7/26/2013	Complete-Waiting on final documents
Carolina Truck and Body (Cooper)	2012075	Asheville	Comm.	298	10/30/2012	Complete-Waiting on final documents
Sardis Road (COA) Annexation	2009037	Asheville	N/A	6,981	4/2/2012	Complete-Waiting on revised ROW items
Ardmion Park	2011107	Asheville	5	208	4/16/2013	Complete-Waiting on final documents
Central Ave	2012065	Asheville	6	305	9/26/2013	Complete - Waiting on final documents
Westover Relocation	2013132	Asheville	1	87	11/20/2013	Complete - Waiting on final documents
Brookgreen Phase 1D-Kenai Dr.	2013076	Woodfin	3	370	3/14/2014	Complete - Waiting on final documents
Echo Hills Cottages	2013121	Asheville	11	532	4/30/2014	Complete - Waiting on final documents
Village at Bradley Branch - Ph. III	2008076	Asheville	44	783	8/8/2008	Complete - Waiting on final documents
Waynesville Ave (Pittman)	2013046	Asheville	15	332	5/23/2013	Complete-Waiting on final documents
Thoms Estate 3B & 4	2013052	Asheville	35	4,690	7/26/2013	Complete-Waiting on final documents
Publix	2013134	Asheville	Comm.	612	10/5/2014	Complete-Waiting on final documents
Telco - Weaverville	2014046	Weaverville	Comm.	110	5/12/2014	Complete-Waiting on final documents
Bartram's Walk	2007065	Asheville	100	10,077	7/28/2008	Complete-Waiting on final documents
Avalon	2013114	Asheville	192	1,343	6/2/2014	Complete-Waiting on final documents
Bridle Path	2014040	Asheville	6	129	3/4/2015	Complete-Waiting on final documents
New Belgium Distribution Ctr.	2014044	Asheville	Comm.	1,620	11/11/2014	Complete-Waiting on final documents
Cool Creek	2014165	Buncombe Co.	10	1,014	4/2/2015	Complete-Waiting on final documents
Mallard Run	2014109	Buncombe Co.	72	2,811	10/31/2014	Complete-Waiting on final documents

# Planning & Development Project Status Report

July 15, 2015

Project Name	Project Number	Work Location	Units	LF	Pre-Construction Conference Date	Comments
Ingles - Sand Hill Rd.	2007214	Enka	Comm.	1,255	10/15/2014	Waiting on final inspection
26 Carl Alwin Place	2014091	Buncombe Co.	Comm.	246	5/1/2015	Waiting on final inspection
Morgan Property	2008007	Candler	10	1,721	8/11/2008	Pre-con held, ready for construction
Canoe Landing	2007137	Woodfin	4	303	5/12/2008	Ready for construction
Central Valley	2006166	Black Mtn	12	472	8/8/2007	Punch list pending
Beaver Drive	2015021	Woodfin	6	220	6/25/2015	Pre-con held, ready for construction
Crest Mountain Phase 3B	2013041	Woodfin	69	1,329	10/15/2013	Waiting on final inspection
Ingles - Smokey Park Highway	2013135	Asheville	Comm.	1,289	4/11/2014	Waiting on final inspection
New Belgium Relocation	2013143	Asheville	Comm.	380	8/12/2014	Waiting on final inspection
Audubon Apts. Phase 2	2014027	Buncombe Co.	86	16	5/27/2015	Pre-con held, ready for construction
Hunt Hill Apartments	2013111	Asheville	180	1,729	3/5/2014	Waiting on final inspection
Rosebriar	2007005	Black Mountain	180	1,729	3/5/2014	Waiting on final inspection
Ventana	2014085	Woodfin	100	5,430	8/12/2014	Testing
Upper Kentucky Improvements	2013085	Montreat	N/A	284	12/3/2013	Waiting on final inspection
Upper Kentucky Ph. 1 "Res"	2014101	Montreat	5	265	10/31/2014	Waiting on final inspection
Isaac Dickson School Relocation	2013033	Asheville	School	504	1/13/2014	Waiting on final inspection
A.B. Tech Fernihurst Relocation	2014061	Asheville	School	697	4/8/2014	Under Construction - on hold
Haywood Village	2014064	Asheville	Mixed	276	6/19/2014	Waiting on final inspection
Lakeside Meadows	2013067	Weaverville	25	1,096	1/16/2015	Waiting on final inspection
Biltmore Lake Block "I"	2014128	Buncombe Co.	19	1,676	3/31/2015	Pre-con held, ready for construction
Creekside Cottages	2014095	Buncombe Co.	7	504	3/12/2015	Pre-con held, ready for construction
Crossings at Beaverdam	2014150	Woodfin	Comm.	119	2/18/2015	Testing
Mill Creek Townhomes	2014037	Buncombe Co.	18	85	3/4/2015	Waiting on final inspection
Busbee Mountain	2007181	Asheville	9	580	9/29/2014	Testing
Country Inn & Suites - Westgate	2014089	Asheville	Comm.	204	1/22/2015	Waiting on final inspection
Burk Street - Phase III	2014079	Asheville	7	111	11/20/2014	Testing
Dillingham Woods	2014048	Asheville	27	375	3/4/2015	Pre-con held, ready for construction
790 Riceville Road	2014078	Asheville	8	1,620	3/3/2015	Pre-con held, ready for construction
Asheville Middle School	2013125	Asheville	School	214	9/30/2014	Waiting on final inspection
Evolve Mountain View	2013105	Asheville	148	347	10/21/2014	Waiting on final inspection
<b>TOTAL</b>			1,732	59,553		