

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT
AUGUST 20, 2014**

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, August 20, 2014. Vice Chairman Kelly presided with the following members present: Ashley, Bryson, Frost, Manheimer, Pelly, Root, Stanley and Watts. Mr. Belcher, Mr. Russell and Mr. VeHaun were absent.

Others present were: Thomas E. Hartye, General Manager, William Clarke, General Counsel, Gary McGill with McGill Associates, P.A. and MSD Staff, Ed Bradford, Peter Weed, Scott Powell, Jim Hemphill, Mike Stamey, Ken Stines, Sam Sirls, Angel Banks, Julie Willingham and Sondra Honeycutt.

2. Inquiry as to Conflict of Interest:

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

3. Approval of Minutes of the July 16, 2014 Board Meeting:

Mr. Kelly asked if there were any changes to the Minutes of the July 16, 2014 Board Meeting. With no changes Mr. Watts moved for approval of the minutes as presented. Mr. Stanley seconded the motion. Voice was unanimous in favor of the motion.

4. Discussion and Adjustment of Agenda:

None

5. Informal Discussion and Public Comment:

None

6. Report of General Manager:

Mr. Hartye reported the United Way Golf Tournament will be held Friday, October 3rd at 8 a.m. at the Asheville Municipal Golf Course. The "Ice Bucket Challenge" for ALS will be held Thursday at 3:30 p.m.

Mr. Hartye presented a copy of an article in the summer edition of NC Currents spotlighting the MSD treatment plant, aka French Broad River Water Reclamation Facility. He expressed his thanks to Peter Weed, Ed Bradford and Hunter Carson for helping put this together. He stated there have been a lot of improvements to the plant, but MSD needs to build on that momentum. As part of our "continual improvement" effort, Mike Stamey, who is over the Construction section, put together a modified landfill plan to recycle all of the rock and debris that comes from construction projects. The end product can be used for select landfill on new jobs. He presented slides showing the equipment used to crush the rock and what it looks like after. He stated this process will help with the District's recycling program as well as save money. With regard to the \$11 million Pilot Study, Mr. Hartye presented several slides showing a crane lifting the Pilot unit in from the roof; the Blower and the Pilot unit; Resin Filters that remove mercury and other constituents as opposed to using carbon units which are very expensive, and a slide showing the set-up for testing. He stated the results are very promising and another battery of testing will take place next week and hopefully staff will come back to the Board with recommendations in this regard. He stated the District could save up to \$3-4 million dollars if this works out well. At this point, the removal rates do work. It's a matter of design, wash water and doing some engineering on the

fabrication which will tell if the resin filters can be fully used instead of the carbon units to meet future regulations.

Mr. Hartye presented a slide showing the wet well after it was relined which was done following his presentation on the Weaverville Pump Station. He presented a slide showing the 10 MGD Carrier Bridge Pump Station located on Amboy Road. This is where the “Anything That Floats” and “French Board River Festival” is held each year. During this time MSD steps up Bioxide treatment to eliminate odor and protect the pipe. Ms. Manheimer asked about the location of the property. Mr. Hartye said it was located on Amboy Road past Carrier Bridge Park; north of the bridge over the river.

Mr. Hartye presented an e-mail from Mr. Kranyik, Garden Manager at the Botanical Gardens at Asheville expressing his appreciation to Lloyd Anders and Eric Dawson of the Collection System Construction Division.

Mr. Hartye reported the August Right of Way Committee Meeting has been cancelled. The next meeting will be held at 9 am on September 24th. The next regular Board Meeting will be held on September 17th at 2 pm.

7. Report of Committees:

Right of Way Committee

Mr. Kelly reported the Right of Way Committee met July 23, 2014. The Committee considered Compensation Budgets to be considered under the Consolidated Motion Agenda. The Committee also heard the following reports: Quarterly Report–Fourth Quarter; Condemnation Statistics and Closings by Agents.

8. Consolidated Motion Agenda:

a. Consideration of Compensation Budgets – Hilliard Avenue @ Aston Park SSR Project; Louisiana Avenue @ Brucemont SSR Project and Melody Circle SSR Project:

Mr. Hartye reported the Hilliard Avenue @ Aston Park SSR Project consists of about 2,500 linear feet of 8” DIP to replace 8” clay and PVC pipe and will eliminate the small Aston Park Pump Station. The total budget for this project is \$35,754.00 and is scheduled to bid in 2016.

Mr. Hartye reported the Louisiana Avenue @ Brucemont project runs between the edge of Louisiana Avenue and Brucemont Circle and consists of about 400 linear feet of 8” DIP to replace 4” and 6” clay and PVC pipe. The existing line is in bad condition and there have been 2 houses built over the line in the last few years which hampers maintenance activities. The total budget for this project is \$13,906.00 and is scheduled to bid in 2016.

Mr. Hartye reported the Melody Circle project starts on New Salem Road in the Swannanoa area and travels through the Melody Circle subdivision. The project consists of about 4,500 linear feet of 8” DIP to replace existing 8” clay pipe which is in poor condition. The total budget for this project is \$59,459.00 and is scheduled to bid in 2016.

Mr. Hartye reported the Right of Way Committee recommends approval of the aforementioned Compensation Budgets.

b. Consideration of Bids, Sanitary Sewer Replacement Project: Fairfax Avenue.

Mr. Hartye reported this project is for the replacement of an aged six-inch clay sewer line located in West Asheville, along Fairfax Avenue. The project is comprised of 2,042 LF of 8-inch DIP and is located entirely within the street. The following bids were received on July 31, 2014: Don Moorhead Construction with a total bid of \$748,063.00; Thomas Construction Co. with a total bid of \$631,076.00; Huntley Construction Co. with a total bid of \$615,625.85; Davis Grading, Inc. with a total bid of \$603,133.00; Dillard Excavating Co. with a total bid of \$587,315.00 and Terry Brothers Construction Co. with a total bid of \$558,802.00. The FY14-15 Construction Budget for this project is \$673,000.00. Staff recommends award of this contract to Terry Brothers Construction Co. in the amount of \$558,802.00, subject to review and approval by District Counsel.

c. Consideration of Bids, Sanitary Sewer Replacement Project: Crockett Avenue.

Mr. Hartye reported this project is for the replacement of aged six and eight-inch clay sewer lines located in the Redwood Forest section of East Asheville. The lines are in poor structural condition, which has caused SSO's and maintenance problems. The original project on Crockett Avenue was expanded to include an additional 764 LF adjacent to the downtown Sheraton Hotel. This is to replace a problematic segment using the pipe-bursting method. The total contract footage is 2,846 LF, which includes 1,300 LF of 8-inch DIP, and 1,466 LF of 8-inch through 12-inch HDPE pipe bursting. The following bids were received on July 31, 2014: Dillard Excavating Co. with a total bid of \$745,815.00; Huntley Construction Co. with a total bid of \$699,479.86, and Terry Brothers Construction Co. with a total bid of \$676,842.00. The FY 14-15 Construction Budget for this project is \$625,000.00. The overage is due to the additional segment being added. There are sufficient funds within the CIP Budget for the overage. Staff recommends award of this contract to Terry Brothers Construction Co. in the amount of \$676,842.00, subject to review and approval by District Counsel.

d. Influent Pump Station at Plant: Approval of Sole Source Procurement for New Influent Pump:

Mr. Hartye reported the plant has three large pumps that lift all wastewater received at the plant up to the Grit and Grease Facility. The pumps were installed in 1986 and have functioned well over time. The internal parts have been replaced several times and the pump casings have been repaired as well. Due to the age and wear of the pump casings it was recommended the District begin replacing these pumps. Staff proposed the replacements be staggered so the pumps do not reach the end of their normal life cycle all at once. Accordingly, one pump was replaced in FY 12-13 and the next scheduled replacement is proposed for the current FY 14-15. The third pump replacement is scheduled for FY16-17. Replacing the pumps in this manner reduces the financial burden upon the District as well as operational risks at the plant. Given the unique nature of these pumps, a primary overriding concern is that each pump must be standardized with identical performance and fitment within the existing footprint and piping. The cost for one pump with factory testing is \$140,235.94, with a production & delivery time of approximately 7.5 months. A contractor will be utilized for pump installation after delivery of the unit. The FY 14-15 budget for this project is \$160,000.00. The pump motor control replacement project (also scheduled for FY 14-15) is \$675,000.00 for a total construction budget of \$835,000.00. Staff recommends the District sole-source procure a Morris Pump Model MF30x30-27 in the amount of \$140,235.94.

e. Influent Pump Station at Plant: Approval of Sole Source Equipment Specifications – Influent Pump Motor Controls:

Mr. Hartye reported the three influent pumps at the plant are powered by 400 HP motors, which in turn are controlled by Variable Frequency Drives (VFD's). The VFD's allow the pumps to ramp their speed up or down to match the incoming flow to the plant, which is more efficient than having pumps which cycle on and off at full power. The VFD's were last replaced in 1998 and the internal parts have been replaced as required. The equipment has become obsolete and replacement parts cannot easily be obtained due to the age of the units. In addition, because the VFD's are comprised of sensitive electronic components and are subject to corrosion in their current location, these units will be relocated to outside the main pump building in a separate climate-controlled enclosure. Given the unique nature of these controls, staff recommends the District include a sole-source specification for Allen-Bradley Powerflex 755 VFD's in the competitively-bid construction contract for installation of the VFD's due to the fact that standardization of the VFD's with other existing Allen-Bradley VFD's within the plant is a primary overriding concern.

f. Consideration of Procurement – Bioxide for Odor and Hydrogen Sulfide Control Contract:

Mr. Hartye reported MSD has been conducting a four-month testing and evaluation of products for odor and hydrogen sulfide control in the South French Broad Interceptor. Results of this testing demonstrates that the Bioxide ® product still successfully minimizes the adverse effects of sulfide formation in wastewater that attack cement piping and equipment in an effective and superior manner. Bioxide ® Solution is a patented product manufactured by Evoqua Water Technologies (formerly Siemens Industry) and is uniquely engineered for collection systems by providing treatment for long detention times. Pursuant to North Carolina Purchasing Statutes for Sole-source purchases and MSD Procedures, this procurement request for a six (6) month interval only is presented to the Board for approval. He further reported that Evoqua Water Technologies has been a supplier to MSD in past years providing Bioxide ®, equipment delivery systems, and on-site support as a unique solution. MSD staff feels comfortable with both the quality of the chemical provided and customer service. This is a Unit Price Contract, without minimum or maximum quantities. Based on an estimate use of 36,000 gallons at \$2.84/gallon, the six month expenditure for Bioxide ® is anticipated to be \$102,240.00 and is within the levels budgeted by the WRF. Staff recommends the Board award the contract for the supply of Bioxide ® to Evoqua Water Technologies at a unit price of \$2.84/gallon.

g. Consideration of Waiver of Competitive Bids – New Backhoe, Fleet Replacement:

Mr. Hartye reported the District's policy is to annually evaluate the condition of fleet vehicles and purchase replacements when the estimated cost of repair and maintenance will exceed the cost of a new one. At the March 2014 Fleet Replacement Committee meeting the members recommended the purchase of one (1) new backhoe replacement, as presented to the Board for approval. This purchase was included in the FY2014-2015 Budget. Pursuant to North Carolina Purchasing Statute and MSD Procedures, MSD staff is requesting Board approval to waive competitive bidding and allow the purchase of this Backhoe from Contractors Machinery Tri Cities, Inc. In February of 2014, after a thorough demo and bidding process, Contractors Machinery was awarded a contract for a Case Backhoe, having been the lowest responsive bidder to MSD specifications. Contractors Machinery has agreed to extend to MSD the same or more favorable prices and terms as set forth in its previous contract. Staff believes it is in the best interest of MSD to purchase this same piece of equipment as operators are already trained on the machine functions; it

increases proficiency with machine operations itself, and allows for standardization of parts for repairs and routine maintenance. The total cost of this contract will be \$98,897.00 and funds are budgeted in the Fleet Replacement Fund. Staff recommends the bid from Contractor's Machinery/Case Construction be awarded.

h. Consideration of Developer Constructed Sewer Systems - Stone Crest Sewer Extension Project:

Mr. Hartye reported this project is located inside the District boundary off North Fork Road in the Town of Black Mountain. The project included extending approximately 1,145 linear feet of 8-inch public gravity sewer to serve the sixteen (16) unit residential development. Staff recommends acceptance of the developer constructed sewer system. All MSD requirements have been met.

i. Fourth Quarter Budget to Actual Review – FY2014:

Mr. Powell reported as follows:

- Domestic User Fees are at budgeted expectations. Staff believes Domestic Fee variance will end up around 101% when June accounts receivable data is received from its Member Agencies in September. Industrial Revenue trended slightly better than budgeted expectations due to increased consumption from one new industrial user (Sierra Nevada).
- Facility and Tap Fees are above budgeted expectations. This is due to the District receiving \$2.1 million from eight developments at the end of the year as well as the conservative nature in which these funds are budgeted.
- Interest and miscellaneous income are above budgeted expectations. The District continues to sell renewable energy credits associated with the Hydroelectric Facility. Investment income is still experiencing post recessionary pressures on the fixed income market.
- O&M expenditures are at 94.25% of budget. This amount may vary slightly from audited numbers due to final accruals.
- Bond principal and interest are slightly better than budgeted expectations. This is a direct result of variable rate interest savings.
- Capital project expenditures are at approximately 85.16% of budget. This amount includes the million dollar contingency. Also the District continued to receive favorable pricing on most projects.

Mr. Pelly asked if Tap fees are associated with Facility fees. Mr. Powell stated they are directly related. Mr. Pelly asked about Taps that require Bore fees. Mr. Powell stated a typical Tap fee is \$650.00, but if MSD has to bore to make a connection, the fee is approximately \$900, which is substantially higher. With regard to Use of Available Funds, Ms. Manheimer asked Mr. Powell to explain the difference between budget and actual for the "use of available funds" line items. Mr. Powell stated the \$19 million dollars is predominately due to issuing debt and goes back into reserves. He explained the reason the actual is different is because we have had an additional \$2.375 million dollars in Tap Fees. He further stated that all of the fees combined have a positive impact on monies going back into reserve, which are used for future CIP projects.

j. Cash Commitment/Investment Report – Month Ended June 30, 2014:

Mr. Powell reported Page 53 presents the makeup of the District's Investment Portfolio. There has been no significant change in the portfolio as to makeup or total amount. Page 54 is the MSD Investment Manager's report as of the month of June. The weighted average maturity of the investment portfolio is 91 days. The yield to maturity is 0.29% and exceeds MSD's bench marks of the 6-month T-Bill and NCCMT cash portfolio. Page 55 and 56 is the same information as presented in the year-end Budget to Actual review. Page 57 is the MSD Variable Debt Service report for the month of July. The 2008A Series Revenue Refunding Bonds are performing better than budgeted expectations. As of the end of July, both issues have saved District rate payers \$3.5 million dollars in debt service since April 2008.

Mr. Pelly moved the Board approve the Consolidated Motion Agenda as presented. Mr. Watts seconded the motion. With no discussion, Mr. Kelly called for the question. Roll call vote was as follows: 9 Ayes; 0 Nays.

9. Old Business:

None

10. New Business:

None

11. Adjournment:

With no further business, Mr. Kelly called for adjournment at 2:35 p.m.

Jackie W. Bryson, Secretary/Treasurer

MSD

Regular Board Meeting

Metropolitan Sewerage District
of Buncombe County, NC

AGENDA FOR 8/20/14

✓	Agenda Item	Presenter	Time	
	Call to Order and Roll Call	VeHaun	2:00	
	01. Inquiry as to Conflict of Interest	VeHaun	2:05	
	02. Approval of Minutes of the July 16, 2014 Board Meeting.	VeHaun	2:10	
	03. Discussion and Adjustment of Agenda	VeHaun	2:15	
	04. Informal Discussion and Public Comment.	VeHaun	2:20	
	05. Report of General Manager	Hartye	2:30	
	06. Report of Committees: Right of Way Committee – Kelly – 7/23/14	VeHaun	2:45	
	07. Consolidated Motion Agenda		3:00	
	a. Consideration of Compensation Budgets – Hilliard Avenue @ Aston Park SSR; Louisiana Avenue @ Brucemont SSR and Melody Circle SSR.	Hartye		
	b. Consideration of Bids, Sanitary Sewer Replacement Project: Fairfax Avenue.	Hartye		
	c. Consideration of Bids, Sanitary Sewer Replacement Project: Crockett Avenue.	Hartye		
	d. Influent Pump Station at Plant: Approval of Sole Source Procurement for New Influent Pump.	Hartye		
	e. Influent Pump Station at Plant: Approval of Sole Source Equipment Specifications – Influent Pump Motor Controls.	Hartye		
	f. Consideration of Procurement – Bioxide for Odor and Hydrogen Sulfide Control Contract	Hartye		
	g. Consideration of Waiver of Competitive Bids – New Backhoe, Fleet Replacement.	Hartye		
	h. Consideration of Developer Constructed Sewer Systems – Stone Crest Sewer Extension.	Hartye		
	i. Fourth Quarter Budget to Actual Review – FY2014.	Powell		
	j. Cash Commitment/Investment Report – Month Ended June 30, 2014.	Powell		
	08. Old Business:	VeHaun	3:20	
	09. New Business	VeHaun	3:25	
	10. Adjournment (Next Meeting (9/17/14))	VeHaun	3:30	
	STATUS REPORTS			

**BOARD OF THE METROPOLITAN SEWERAGE DISTRICT
JULY 16, 2014**

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 16, 2014. Chairman VeHaun presided with the following members present: Ashley, Belcher, Bryson, Frost, Kelly, Manheimer, Pelly, Root, Russell, Stanley and Watts.

Others present were: Thomas E. Hartye, General Manager, William Clarke, General Counsel, Gary McGill with McGill Associates, P.A., Lee Thomason with Biltmore Farms, LLC, Joseph Martin with Woodfin Sanitary Water & Sewer District, and MSD Staff, Ed Bradford, Peter Weed, Scott Powell, Jim Hemphill, Mike Stamey, Ken Stines, Sam Sirles 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. Stanley nominated Mr. VeHaun as Chairman. Mr. Russell seconded the nomination. Mr. Clarke called for further nominations. With no further nominations, Mr. Watts moved the nominations be closed. Mr. Root 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 2014-2015. By a show of hands, the vote was unanimous in favor of Mr. VeHaun.

Mr. VeHaun called for nominations for Vice Chairman of the MSD Board. Ms. Bryson nominated Mr. Kelly as Vice Chairman. Mr. Stanley seconded the nomination. With no further nominations, Mr. Root moved the nominations be closed. Mr. Watts 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 MSD Board. By a show of hands, the vote was unanimous in favor of Mr. Kelly.

Mr. VeHaun called for a motion to approve the appointment of Ms. Bryson as Secretary/Treasurer of the MSD Board. Mr. Pelly moved. Mr. Watts seconded the motion. Voice vote in favor of the motion was unanimous.

3. Inquiry as to Conflict of Interest:

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

4. Approval of Minutes of the June 11, 2014 Board Meeting:

Mr. VeHaun asked if there were any changes to the Minutes of the June 11, 2014 Board Meeting. With no changes, Mr. Pelly moved for approval of the minutes as presented. Mr. Kelly seconded the motion. Voice vote was unanimous in favor of the motion.

5. Discussion and Adjustment of Agenda:

None

6. Informal Discussion and Public Comment:

Mr. VeHaun welcomed Mr. Martin and Mr. Thomason. There was no public comment.

7. Report of General Manager:

With regard to Special Projects, Mr. Hartye reported MSD constructs between \$15 - \$18 million on its CIP for both collection and plant projects; this coming year will be approximately \$22.6 million. He stated MSD's in-house crews took on not only their part of the rehab program of sewer line construction of 20,000 feet per year, but responded to a large amount of emergency dig-ups in a wet year. One of the emergencies they responded to was over and above what most utilities would do.

Mr. Hartye presented slides regarding recent problems encountered with the Weaverville Pump Station #2 located on Riverside Drive and Highway 251. He explained a force main comes into the Station and a force main goes out. Also, a gravity line from the prison dumps into the Station as well. This Station was due for an upgrade in FY 2016 on the CIP, but due to a rain event, there was a blow-out on one of the lines and the other line ended up with a blow-out later. He stated this is an unusual Station in that it takes flow from a pump station in Weaverville and re-pumps it to the plant. Weaverville Pump Station #2 continues to get flow every few minutes from the Weaverville Pump Station #1 (24/7 - 365) and in order to work on this Station, an emergency pump-around was necessary.

Mr. Hartye reported that emergency crews installed a temporary repair while both a by-pass operation and full rehab operation could be designed in-house and installed by in-house construction crews. This work involved many disciplines working together from the Plant and System Services including mechanical, electrical, pipe line construction, engineering and tech services. He stated most utilities, because of its complexities, would call in the Consulting Engineer to design it then put it out for a Contractor to construct it. He explained what would be involved in this process. He presented slides showing the installation of new pipe; wet well; by-pass vault; frac tank and pumps. He further stated that in order to do this work, the entire system had to be drained, shut down Weaverville Pump Station #1 and drain everything back through Weaverville Pump Station #2 and install an isolation valve so the piping could be worked on. He presented slides showing MSD crews at work. He expressed his appreciation to Peter Weed and Mike Stamey, but even more to Ken Stines and Ben Reeves who were at the center of putting this project together out in the field. He stated Ken Stines was responsible for putting together the pump-around to make sure it worked, which was very critical, and Ben Reeves was over construction and putting together new piping, etc. Mr. VeHaun asked about the cost. Mr. Hartye stated MSD is spending approximately \$60,000 by doing it in-house vs. \$460,000 which was in the CIP budget for a contractor and an engineer. Mr. Pelly asked how many days it will take to complete. Mr. Hartye stated this will be done in phases with in-house crews. The main part took about five days; only the grouting and epoxy of the wet well remain.

Mr. Hartye presented a letter from Sylvia Farrington regarding work on Valley Vista Drive. He expressed thanks to Ben Reeves, Jesse Hunter and the entire construction section for their professionalism in completing the work. Mr. Stanley stated MSD crews did a great job and were most cordial to everyone.

Mr. Hartye presented a letter from George Owensby regarding idling trucks during a sewer repair job on Fairway Drive along with a response from MSD. He stated MSD will strive to do its part in reducing fuel consumption.

Mr. Hartye reported the Personnel Committee met July 15th at 9 a.m. The employee appreciation lunch is rescheduled to July 29th at 11:30 a.m. behind maintenance. The next Right of Way Committee meeting will be held at 9 a.m. on July 23rd. The next regular Board Meeting will be held August 20th at 2 p.m.

8. Report of Committees:

Personnel Committee

Mr. Stanley reported the Personnel Committee met July 15, 2014 to consider the evaluation of the General Manager. The Committee recommends a new 4-year contract; an increase in vacation days from 23-25; an increase in salary to \$170,000 and a \$5,000 bonus for a job well done. Mr. Stanley moved the Board approve the recommendation of the Personnel Committee. Mr. Watts seconded the motion. Ms. Manheimer asked what Mr. Hartye's salary was before. Mr. Clarke said it was \$158,828.00. Ms. Manheimer asked what the bonus was last year. Mr. Root said it was six percent. Ms. Manheimer stated Mr. Hartye does a great job and we're glad to have him and appreciate trying to correct salaries so they are competitive with what the going salaries are across the State. However, she has some concern about the bonus concept which is not something the City routinely uses or is familiar with in other entities she works with. She further stated she prefers continuing to move the salary in the right direction rather than relying on a bonus concept which she feels is scrutinized publicly and is hard to explain, so for that reason, she will vote against the recommendation, but agrees with the increase in salary. Mr. Root stated he feels there is something to be said for the bonusing mechanism as a way to keep the salary from reaching a point where next year when the salary is reviewed again, the Personnel Committee is starting at a higher level. Therefore, feels the bonusing mechanism can be a savings. Mr. Pelly asked if the bonus is included in each year of the 4-year contract. Ms. Frost said no, it would be evaluated every year as explained by Mr. Root. With no further discussion, Mr. VeHaun called for the question. Roll call vote was as follows: 10 Ayes; 2 Nays (Ms. Manheimer and Mr. Pelly).

9. Consolidated Motion Agenda:

a. Consideration of Bids for Sanitary Sewer Rehabilitation Project – Broadview Avenue:

Mr. Hartye reported this project is for the replacement of aged six-inch clay sewer lines located in the Oakley area and is comprised of 4,442 linear feet of 8-inch DIP. The contract was advertised and the following bids were received on June 28, 2014: Terry Brothers Const. Co., Inc. with a total bid of \$1,177,917.50; Thomas Construction Co. with a total bid of \$1,121,501.00; Don Moorhead Const. Co. with a total bid of \$1,117,393.00; Dillard Excavating Co. with a total bid of \$1,116,215.00 and Buckeye Bridge, LLC with a total bid of \$1,111,015.90. He further reported that Buckeye has completed numerous rehabilitation projects for MSD and has a satisfactory performance history. The FY14-15 Construction Budget for the sewer rehabilitation portion is \$1,305,000.00. Staff recommends award of this contract to Buckeye Bridge LLC in the amount of \$1,111,015.90, subject to review and approval by District Counsel.

b. Consideration of Developer Constructed Sewer Systems: Burk Street; Eargle Sewer Extension; Gorilla Carwash-Weaverville; Pinebrook Farms Relocation; Richmond Hill and West French Broad Master Plan Interceptor.

Mr. Hartye reported the Burk Street Sewer Extension Project is located inside the District boundary off Burk Street in the City of Asheville. The project included extending approximately 631 linear feet of 8-inch public gravity sewer to serve a twenty (20) unit residential development.

Mr. Hartye reported the Eargle Sewer Extension Project is located inside the District boundary off Old Haw Creek Road in the City of Asheville. The project included extending approximately 75 linear feet of 8-inch public gravity sewer to

serve a three (3) unit residential development.

Mr. Hartye reported the Gorilla Carwash Sewer Extension Project is located inside the District boundary off US 25/70 in the Town of Weaverville. The project included extending approximately 234 linear feet of 8-inch public gravity sewer to serve a commercial development.

Mr. Hartye reported the Pinebrook Farms Sewer Relocation Project is located inside the District boundary off Creekside View Drive in the Town of Weaverville. The project included relocating approximately 179 linear feet of 8-inch public gravity sewer and abandoning approximately 75 LF of 8-inch public gravity sewer to accommodate and serve an eight (8) unit residential development.

Mr. Hartye reported the Richmond Hill Sewer Rehabilitation Project is located inside the District boundary off Richmond Hill Drive in the City of Asheville. The project included rehabilitation of 358 LF of existing 10-inch private gravity sewer to serve a seven (7) unit residential development.

Mr. Hartye reported the West French Broad Master Plan Interceptor Sewer Extension project is located across the river from Biltmore Park. The extension began at MSD's Clayton Road Pump Station and extends to near Long Shoals Road. He stated this major line will provide for the orderly growth of the collection system and will serve future development in this area. The project included installation of approximately 5,835 LF of 16-inch DIP. The construction cost of this interceptor was \$1,468,582.96. Reimbursement to Biltmore Farms, LLC was approved by the Board on July 20, 2011 in the amount of \$225,138.49, but because Biltmore Farms, LLC shortened the scope of their original project, final reimbursement due to Biltmore Farms, LLC is \$173,222.00.

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

c. Cash Commitment/Investment Report – Month Ended May 31, 2014:

Mr. Powell reported Page 32 presents the makeup of the District's Investment Portfolio. The amount of the District's portfolio has changed significantly due to the issuance of \$28 million in revenue bonds in May. As of May and June, those funds were kept in the North Carolina Capital Management Trust portfolio and had an impact on the yield to maturity and are currently being invested. Page 33 is the MSD Investment Manager's report as of the month of May. The weighted average maturity of the investment portfolio is 91 days which decreased up to 100 days from the prior month. The yield to maturity is 0.27% and exceeds MSD's bench marks of the 6 month T-Bill and NCCMT cash portfolio. He stated there was a 0.20% basis point drop in the yield to maturity, but expects this will increase by the end of July based on future needs of that money as it pertains to the Capital Improvement Program. Page 34 is the MSD analysis of 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 7 cash receipts from developers as well as fees being budgeted conservatively. Page 35 is the MSD Analysis of Expenditures. The District's 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 36 is the MSD Variable Debt Service report. The 2008A Series Revenue Refunding Bonds are performing better than budgeted expectations. As of the end of June, both issues have saved District rate payers \$3.4 million dollars in debt service since April, 2008.

Ms. Frost 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: 12 Ayes; 0 Nays.

10. Old Business:

Mr. VeHaun called on Mr. Clarke for an update on the lawsuit. Mr. Clarke reported the State appealed the decision of Judge Manning to the North Carolina Court of Appeals and he would be very surprised if a decision were rendered before the middle of next year.

11. New Business:

None

12. Adjournment:

With no further business, Mr. VeHaun called for adjournment at 2:45 p.m.

Jackie W. Bryson, Secretary/Treasurer



MEMORANDUM

TO: MSD Board
FROM: Thomas E. Hartye, P.E., General Manager
DATE: August 14, 2014
SUBJECT: Report from the General Manager

- MSD Plant Spotlight

Attached is a copy of the article in the summer edition of NC Currents spotlighting the MSD treatment plant, aka French Broad River Water Reclamation Facility. Thanks to Peter Weed, Ed Bradford and Hunter Carson for helping put this together. There have been a lot of improvements to the plant as you can see, but we need to build on that momentum as there also remains a lot to do to secure effective treatment and collection for the future of the communities that we serve.

- Kudos

Mr. Kranyik, Garden Manager at the Botanical Gardens at Asheville emailed to express his appreciation for the Lloyd Anders and Eric Dawson of the Collection System Construction Division.

“I am writing to let you know, that once again, I had a very high opinion of your employees and their work. Last week, two men from MSD filled two dead sewer lines, one near the gazebo at the Botanical gardens, and one below Founder’s Drive on the UNCA campus. From their initial contact with the garden, to listening about my concerns for the welfare of the garden, to scheduling (allowing my input), to completion of the work, they spoke well for your department. Courteous. Respectful. Competent. Throw in a decent sense of humor. In a culture where it is unfortunately considered normal to blindly complain about public workers, I thought you would find this reassuring.”

- Board/Committee Meetings/Events

The August Right of Way Committee Meeting has been cancelled. The next Right of Way Committee meeting will be held at 9 am on September 24th. The next Regular Board Meeting will be held on September 17th at 2 pm.



Plant Spotlight:

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

Information provided by Peter Weed (Director of WRF Treatment & Maintenance), Hunter Carson, PE (Project Manager, Capital Improvement Division) and Ed Bradford, PE (Director of Capital Improvement Division). Article created by David Hamilton, PE / ARCADIS (NC AWWA-WEA Plant Operations & Maintenance Committee)

General

The Metropolitan Sewerage District of Buncombe County (MSDBC) was created in 1962 as a non-profit, publicly-owned utility in the Blue Ridge Mountains of western North Carolina. MSDBC includes the City of Asheville and 15 surrounding communities and water and sewer districts. MSDBC wastewater is treated at the French Broad River Water Reclamation Facility (WRF), which started operation in 1967 and now serves a population of 135,000. The French Broad River treatment facility is one of the largest rotating biological contactor (RBC) plants in the world. Average daily wastewater flow sources are 50% domestic/commercial and 9% industrial. Approximately 41% of the average daily flow (ADF) is attributed to infiltration and inflow. The French Broad River WRF is currently permitted for 40 mgd experiencing an ADF of 22 mgd and peak of 65 mgd. The annual facility operating cost for the WRF is approximately \$6,000,000.

Treatment Processes

The key treatment processes at the French Broad River facility are as follows:

Preliminary Treatment

- Bar screens (2 units with ¾" spacing) with screenings compactor and shaftless screw conveyer (Infilco vertical climber screens);
- Influent pumps (3 units) with 35 mgd rated capacity each (Goulds – Model MFD 30x30-27125); and

- Aerated grit chambers (3 units) with associated grease removal (Schreiber system).

Primary Treatment

- Primary microscreens (7 units) using 250-micron screens (currently out-of-service; flow through basin only).
- Secondary Treatment (All RBC's are air-driven Envirex units)
- First stage RBC (44 units),
- Second stage RBC (72 units),
- Third stage RBC (36 units),
- Intermediate pumps (three units) that pump water to clarifier from third stage RBC, and
- Intermediate clarifier (four cells with total volume of 2 MG).

Tertiary Treatment

- Cloth-media disc filters (four basins with four filters per basin – Aqua-Aerobics).

Biosolids Treatment

- Gravity thickeners (two units), 100 foot diameter each;
- 2.5 meter belt presses (two units) (BDP vertical stack units);
- Fluidized bed incinerator (40 dry tons/day rated);
- Alkaline stabilization Facility (40 dry tons/day rated); and
- Anaerobic digesters (two units), 100 foot diameter each (decommissioned).



WRF and Hydroelectric Dam



Plant Aerial View

Disinfection

- Sodium hypochlorite chlorination system and
- Sodium bisulfate dechlorination system.

Further description of these processes is as follows:

Wastewater enters the plant through a 66-inch diameter interceptor and then passes through the bar screen station and into the influent pump station wet well. From there, flow is pumped to the grit and grease removal facility, then flows by gravity through the primary microscreens and flows through the RBC trains where the biological treatment occurs. Flow is then pumped to an intermediate clarifier and then passes by gravity through the cloth media disc filters. Afterwards, disinfection occurs in the hypochlorite facility where sodium hypochlorite replaced gaseous chlorine in 2002. The 8% sodium hypochlorite solution is fed at approximately 1,000 gallons

per day. Finally, disinfected water is dechlorinated using sodium bisulfate. Treated water passes through a Parshall flume and is discharged by gravity into the intake flume for a hydro-electric facility, where some of its energy is recovered for power generation (river water is also present in the flume; the intake of which is at the upstream hydro-electric dam).

Plant solids are handled in several ways. Removal of large solids and trash (greater than 1/2") occurs at the bar screens. Screenings are compacted and conveyed via a shaftless screw conveyor to a dumpster and landfilled. Finer solids (grit and grease) are removed and conveyed to a dumpster and then landfilled. Sludge from the RBCs is de-watered using the gravity thickeners. The slurry is pumped to belt filter presses for further dewatering to an average of 25% solids cake. The cake is then burned in a fluidized bed incinerator, the primary method of

biosolids disposal. The ash is removed by a scrubber and then disposed of in a lagoon on the plant property. Alkaline stabilization can be used as a backup to incineration. This process produces 'Nutralime,' which produces a Class A Exceptional Quality (EQ) Biosolid. The Nutralime can be used for agricultural use, or for soil amendment.

MSDBC operates a highly automated plant, wherein all process trains are completely automated via a PLC-based control system using Ifix software with extensive in-house development.

Expansions and Upgrades

The most recent expansion to the French Broad River facility was in 1989 when the plant capacity was increased from 25 mgd to 40 mgd and the incineration and chemical stabilization for sludge handling were added. There are no current plans for further expansion.



Grit Grease Removal



Rotating Biological Contactors



Clarifiers



Thickeners

Challenges Overcome

Biosolids Handling Operations

The original solids handling process-thickened sludge in gravity thickener tanks, pumped to gravity belt thickeners across the facility, then pumped again across the facility to anaerobic digesters. After digestion, the sludge was pumped back across the facility (again) to be dewatered with standard belt filter presses. This resulted in high pumping, energy, and polymer costs. The French Broad River WRF staff has since optimized the system by taking the thickened sludge from the gravity thickener tanks and pumping it directly to the belt filter presses. This eliminated the gravity belt thickeners and anaerobic digesters, plus the associated pumping equipment. The results were a significant reduction in polymer use/cost, reduced energy costs, higher BTU-value sludge (which translated into lower supplemental fuel use/cost for the incinerator). The staff also replaced aging belt filter presses and now the dewatering process consistently achieves greater than 24% solids cake with an average polymer use of only 5 lbs/ton.

Laboratory Operations

MSDBC has a unique partnership with a local laboratory testing firm. MSDBC found that its own laboratory facilities were under-utilized and staffing of the lab came at a high cost. The local testing firm was offered the use of the MSDBC laboratory space and in return MSDBC receives all analytical lab work at no cost. This saves MSDBC approximately \$60,000 per year in laboratory testing costs.

Personnel

Staff

Personnel at the French Broad River WRF include 11 operations staff and 13 maintenance staff. All operators are North Carolina certified and two staff members are certified maintenance technologists.

Staff Development

In addition to routine personnel development training, MSDBC encourages treatment plant operators to become certified wastewater operators. This certification is accomplished by actively allowing employees paid time to attend coursework, as well as financial incentives for obtaining advanced levels of certification. Ten of the staff are certified Grade IV operators and one is a certified Grade III operator.

The plant also has implemented a skill based pay program for the plant maintenance division wherein employees earn higher salaries based upon becoming proficient in needed skill areas.

Health & Safety

MSDBC places great emphasis on the safety and wellbeing of its employees. The safety program is managed by the Environmental Health and Safety Division (EHS). The EHS ensures compliance with regulatory agencies and functions to reduce losses to MSDBC such as high worker's compensation premiums, lost production time, and injury to people or property. The EHS promotes awareness of and participation in health and safety programs among all employees. This proactive program has helped to reduce OSHA violations to zero for the prior

calendar year, as well as a lost workday case rating 30% less than the previous year per North American industrial classification system.

In addition MSDBC also has a wellness program, which is used to help maintain employees' health. Various programs are sponsored throughout each year, such as walking programs, healthy lifestyle choices, smoking cessation, etc.

Operations Challenges

MSDBC has participated in the Operations Challenge since 2010:

- First place overall at 2011 North Carolina American Water Works Association and North Carolina Water Environment Association (NC AWWA-WEA) conferences;
- Seventh place overall at the 2012 Water Environment Federation Technical Exhibition and Conference (WEFTEC) in New Orleans (third in Maintenance Category, third in Safety Category);
- First place overall at 2012 NC AWWA-WEA Conference;
- Fifteenth place overall at 2013 WEFTEC in Chicago; and
- Second overall at 2013 NC AWWA-WEA conference.

Awards and Recognition

The French Broad River WRF has received National Association of Clean Water Agencies (NACWA) Peak Performance Awards for five consecutive years at the Gold Level and a Platinum Level award last year. MSDBC also received an AMSA (now NACWA) Excellence in Management Award in 2004 for management of its facilities.



Belt Press



Incinerator Bldg



Ash Removal Venturi Scrubber



SCADA-Control Room

Unique Attributes

Electric Power Generation

MSDBC owns and operates a small hydroelectric dam and generation facility. The original structures were built in the early 1900s and provided electric power for Asheville's first trolley system. This system was later used to generate commercial power until the 1960s when it was decommissioned. In the mid-1980s the system was rehabilitated and currently generates up to 2.4 megawatts of electricity (depending on river flows) using three turbines. This generation facility helps to offset MSDBC's electrical power costs, saving approximately \$33,000 per month. MSDBC also generates power by using methane from the nearby closed landfill. Gas is piped to

the plant where it is used to power two engine-driven generators. These two generators supply approximately 900 kW of power.

ISO Certification

MSDBC's entire organization is ISO14001 certified. The plant was the first to be certified in 2002. The remaining departments received final certification in 2005.

Collection System Rehab and Infiltratio/Inflow (I/I) Control

MSDBC has one of the most aggressive collection system rehabilitation programs in the region. This effort contributes to the reduction of influent flow to the French Broad River WRF. MSDBC rehabilitates at least 50,000 linear feet of wastewater collection


pipes each year. This amount represents approximately 1% of its 991 miles of collection system. Collection system rehabilitation projects are prioritized via MSDBC's pipe rating program which rates pipe segments based on structural condition (via closed circuit television review), customer service requests, sanitary sewer overflows, frequency of in-house monitoring, and potential for impacts to surface waters. [↗](#)

Contact for More Information on the MSD of Buncombe County French Broad River Water Reclamation Facility

Peter Weed, Director of WRF Treatment & Maintenance (peterw@msdbc.org)
Phone: (828) 225-8204

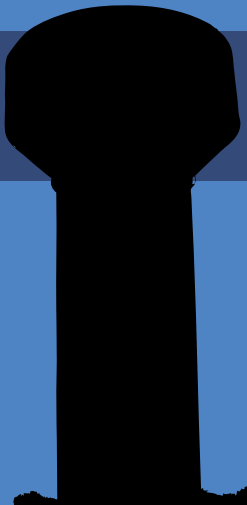
To reach North Carolina's water industry professionals through the *NC Currents* magazine and its targeted readership, contact Al at your earliest convenience to discuss your company's promotional plans for 2014.

Al Whalen, Marketing Manager
1-866-985-9782
awhalen@kelman.ca

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**RIGHT OF WAY
COMMITTEE RECOMMENDATIONS
AND MINUTES
July 23, 2014**

I. Call To Order

The regular monthly meeting of the Right of Way Committee was held in the Boardroom of the William H. Mull Building and called to order at 9:00 a.m. on Wednesday, July 23, 2014. The following Right of Way Committee members were present: Glenn Kelly, Matt Ashley Jr., Jackie Bryson, Esther Manheimer, Chris Pelly and Robert Watts.

Others present were: Jerry VeHaun, Chairman of the Board; Allan Root, Board member; Tom Hartye, Ed Bradford, Angel Banks, Darin Prosser, Shaun Armistead, Wesley Banner and Pam Nolan, M.S.D.

II. Inquiry as to Conflict of Interest

Mr. Kelly inquired if anyone had a conflict of interest with Agenda items. There was none.

Ms. Banks stated that as far back as 2002 the Right of Way Committee has requested that Staff provide only pin numbers in the Right of Way packages to avoid conflicts of interest. They specifically did not want to know ownership for fear it would influence their decisions. In 2011 Ms. Manheimer had asked that names be provided in the packages instead of pin numbers only. This was due to her working in a law office in which one of her associates sometimes handled cases against MSD and there was a risk of a conflict of interest. Staff has been providing Ms. Manheimer with this information separately but still only providing pin numbers in the Right of Way Committee packages. As Staff has begun to provide packages electronically and there are new members on the Committee, Staff wanted to re-visit this issue again. Would Committee prefer to continue leaving names out of packages or provide names and pin numbers in packages? Mr. Kelly stated that he would prefer names and pin numbers in packages right away so that everyone could see if they have a conflict. Mr. VeHaun stated that he felt it would help him. There were no further comments. Ms. Banks stated that from this point forward, names and pin numbers would be included in all packages.

III. Consideration of Compensation Budgets –

Hilliard Ave. @ Aston Park GSR, Project No. 2009115
Louisiana Ave. @ Brucemont GSR, Project No. 2010100
Melody Circle GSR, Project No. 2010093

The attached Compensation Budgets are based on current ad valorem tax values and follow the MSD approved formula.

STAFF RECOMMENDATION: Approval of Compensation Budgets.

Ms. Banks explained the location of the above projects. The Hilliard Avenue @ Aston Park project crosses Hilliard Avenue in the vicinity of the City's tennis complex and the upper section of the project runs around the old Aston Park hospital buildings and reaches up to Pearl and Ann Streets. The lower leg of the project goes beside the tennis courts and behind the Mountain Housing office. It consists of about 2500 lf of 8" DIP to replace 8" clay and PVC. This project will eliminate the small Aston Park Pump Station. This project is scheduled to bid in 2016.

The City of Asheville has plans for a greenway through the general corridor. Ms. Manheimer stated that this was in the area of the Clingman Forest Greenway Project and asked if Staff could touch base with the City as their Parks and Recreation Maintenance Facility is in this area. Ms. Banks stated that Staff had already held meetings and shared information back and forth with the City Staff. Ms. Manheimer was complimentary of MSD's process.

The Louisiana Avenue @ Brucemont project runs between the edge of Louisiana Avenue and Brucemont Circle and consists of about 400 lf of 8" DIP to replace 4" and 6" clay and PVC. The existing line is in bad condition and there have been 2 houses built over the line in the last few years which hampers maintenance activities. This project is scheduled to bid in 2016.

The Melody Circle project starts on New Salem Road in the Swannanoa area and travels through the Melody Circle subdivision. The project consists of about 4500 lf of 8" DIP to replace existing 8" clay pipe. The line is in poor condition and is scheduled to bid in 2015.

There was no discussion. Mr. Watts made the motion to accept Staff's recommendation. Ms. Bryson seconded the motion. Voice vote was unanimous.

COMMITTEE RECOMMENDATION: Approval of Compensation Budgets.

IV. SUBJECT: Quarterly Report – Fourth Quarter

Attached you will find a Project Status Summary for all active acquisition projects. This report provides information on percentage of easements complete, percentage of compensation expended and comments on condemnations. This information is provided for your review.

SUBJECT: Condemnation Statistics – July 1, 1991 to June 30, 2014

Attached you will find a report outlining condemnation statistics from July 1, 1991 to June 30, 2014. This report tracks total number of actions filed and how they were resolved, whether through settlement or trial.

SUBJECT: Closings by Agent – July 1, 2013 to June 30, 2014

Attached you will find a report outlining Closings by Agent from July 1, 2013 to June 30, 2014. This report details fiscal year acquisitions by agent, project and owner.

STAFF RECOMMENDATION: For information only. No action required.

Ms. Banks reviewed all of the reports. Mr. Watts asked if MSD was seeing a trend in trial rates? Ms. Banks stated that it pretty much stayed between .25% and .28% of trials per easement. Mr. Bradford stated that there were a significant number on Lower Smith Mill Creek. Ms. Banks stated that there were ten filings on that project and they were all settled. Ms. Manheimer asked if there were more litigious areas of town. Ms. Banks stated that overall that residents in the entire area are getting more litigious whether it be from knowledge or more research. Commercial properties tend to be even more so.

There being no further business the meeting adjourned at 9:15 am.

Metropolitan Sewerage District of Buncombe County

Board Action Item - Right-of-Way Committee

COMMITTEE MEETING DATE: 7/23/2014

BOARD MEETING DATE: 8/20/2014

SUBMITTED BY: Tom Hartye, PE, General Manager
PREPARED BY: Angel Banks, Right of Way Manager
REVIEWED BY: Ed Bradford, PE, Director of CIP

SUBJECT: Consideration of Compensation Budgets –

Hilliard Ave. @ Aston Park GSR, Project No. 2009115
Louisiana Ave. @ Bruceмонт GSR, Project No. 2010100
Melody Circle GSR, Project No. 2010093

The attached Compensation Budgets are based on current ad valorem tax values and follow the MSD approved formula.

STAFF RECOMMENDATION: Approval of Compensation Budgets.

Ms. Banks explained the location of the above projects. The Hilliard Avenue @ Aston Park project crosses Hilliard Avenue in the vicinity of the City's tennis complex and the upper section of the project runs around the old Aston Park hospital buildings and reaches up to Pearl and Ann Streets. The lower leg of the project goes beside the tennis courts and behind the Mountain Housing office. It consists of about 2500 lf of 8" DIP to replace 8" clay and PVC. This project will eliminate the small Aston Park Pump Station. This project is scheduled to bid in 2016. The City of Asheville has plans for a greenway through the general corridor. Ms. Manheimer stated that this was in the area of the Clingman Forest Greenway Project and asked if Staff could touch base with the City as their Parks and Recreation Maintenance Facility is in this area. Ms. Banks stated that Staff had already held meetings and shared information back and forth with the City Staff. Ms. Manheimer was complimentary of MSD's process.

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There was no discussion. Mr. Watts made the motion to accept Staff's recommendation. Ms. Bryson seconded the motion. Voice vote was unanimous.

COMMITTEE RECOMMENDATION: Approval of Compensation Budgets

COMMITTEE ACTION TAKEN	
Motion by: Robert C. Watts	To: XX Approve <input type="checkbox"/> Disapprove
Second by: Jackie Bryson	<input type="checkbox"/> Table <input type="checkbox"/> Send back to Staff
	<input type="checkbox"/> Other
BOARD ACTION TAKEN	
Motion by:	To: <input type="checkbox"/> Approve <input type="checkbox"/> Disapprove
Second by:	<input type="checkbox"/> Table <input type="checkbox"/> Send back to Staff

Hilliard Avenue @ Aston Park GSR

Project Number 2009115

Compensation Budget

30-Jul-14

Pin Number and Name

27 Pin	83 Pin	Acres	Parcel SF	Land Value	LV/SF	PE	PE Assd. Value	50% PE Assd. Value	TCE SF	TCE Assd.	10% Annl Return	Proj Time (Months)	TCE Rent Value	Total Comp. (Rounded)
	9648183942	0.00	0.00	\$0.00	\$0.00	8,015.16	\$0.00	\$0.00	10,814.22	\$0.00	\$0.00	3	\$0.00	\$0
	9648194420	1.01	43,995.60	\$352,000.00	\$8.00	574.09	\$4,592.72	\$2,296.36	1,225.29	\$9,802.32	\$980.23	3	\$245.06	\$2,541
	9648196205	0.15	6,534.00	\$37,500.00	\$5.74	0.00	\$0.00	\$0.00	1,815.44	\$10,420.63	\$1,042.06	3	\$260.52	\$261
	9648196125	0.32	13,939.20	\$111,500.00	\$8.00	1,261.86	\$10,094.88	\$5,047.44	1,235.94	\$9,887.52	\$988.75	3	\$247.19	\$5,295
	9648076791	0.75	32,670.00	\$65,300.00	\$2.00	1,776.53	\$3,553.06	\$1,776.53	1,517.50	\$3,035.00	\$303.50	3	\$75.88	\$1,852
	9648181403	0.65	28,314.00	\$31,400.00	\$1.11	3,982.14	\$4,420.18	\$2,210.09	5,603.91	\$6,220.34	\$622.03	3	\$155.51	\$2,366
	9648195140	0.03	1,306.80	\$10,500.00	\$8.03	471.59	\$3,786.87	\$1,893.43	316.41	\$2,540.77	\$254.08	3	\$63.52	\$1,957
	9648089122	2.59	112,820.40	\$225,000.00	\$1.99	9,075.69	\$18,060.62	\$9,030.31	15,595.15	\$31,034.35	\$3,103.43	3	\$775.86	\$9,806
	9648076893	0.37	16,117.20	\$32,200.00	\$2.00	34.72	\$69.44	\$34.72	694.31	\$1,388.62	\$138.86	3	\$34.72	\$69
	9648078846	0.36	15,681.60	\$31,400.00	\$2.00	1,479.80	\$2,959.60	\$1,479.80	2,545.25	\$5,090.50	\$509.05	3	\$127.26	\$1,607

TOTALS:	\$25,754
Staff Contingency:	\$5,000
GM's Contingency	\$5,000
Amendment	
Total Budget:	\$35,754

PINs 9648-18-3942 and 9648-18-7790 belong to the City of Asheville. M.S.D. typically does not pay compensation to state agencies, municipalities, etc.

Louisiana Avenue @ Bruceмонт GSR

Project Number 2010100

Compensation Budget

30-Jul-14

Pin Number and Name

27 Pin	83 Pin	Acres	Parcel SF	Land Value	LV/SF	PE	PE Assd. Value	50% PE Assd. Value	TCE SF	TCE Assd.	10% Annl Return	Proj Time (Months)	TCE Rent Value	Total Comp. (Rounded)
	9638264744	0.30	13,068.00	\$41,800.00	\$3.20	224.49	\$718.37	\$359.18	532.85	\$1,705.12	\$170.51	3	\$42.63	\$402
	9638262798	0.20	8,712.00	\$39,500.00	\$4.53	1,435.12	\$6,501.09	\$3,250.55	2,242.01	\$10,156.31	\$1,015.63	3	\$253.91	\$3,504

TOTALS:	\$3,906
Staff Contingency:	\$5,000
GM's Contingency	\$5,000
Amendment	
Total Budget:	\$13,906

Melody Circle Sanitary Sewer Replacement

Project Number 2010093

Compensation Budget

08-Jul-14

Pin Number and Name

27 Pin	83 Pin	Acres	Parcel SF	Land Value	LV/SF	PE	PE Assd. Value	50% PE Assd. Value	TCE SF	TCE Assd.	10% Annl Return	Proj Time (Months)	TCE Rent Value	Total Comp. (Rounded)
	9689206508	0.33	14,374.80	\$32,200.00	\$2.24	715.39	\$1,602.47	\$801.24	2,356.71	\$5,279.03	\$527.90	6	\$263.95	\$1,065
	9689207591	0.24	10,454.40	\$30,800.00	\$2.95	0.00	\$0.00	\$0.00	1,521.89	\$4,489.58	\$448.96	6	\$224.48	\$224
	9689208369	0.22	9,583.20	\$30,400.00	\$3.17	0.00	\$0.00	\$0.00	557.30	\$1,766.64	\$176.66	6	\$88.33	\$88
	9689107426	0.47	20,473.20	\$33,800.00	\$1.65	1,220.23	\$2,013.38	\$1,006.69	3,467.52	\$5,721.41	\$572.14	6	\$286.07	\$1,293
	9689106702	0.38	16,552.80	\$32,800.00	\$1.98	200.00	\$396.00	\$198.00	1,050.00	\$2,079.00	\$207.90	6	\$103.95	\$302
	9689106598	0.49	21,344.40	\$34,000.00	\$1.59	1,032.24	\$1,641.26	\$820.63	2,430.03	\$3,863.75	\$386.37	6	\$193.19	\$1,014
	9689206468	0.28	12,196.80	\$31,400.00	\$2.57	785.70	\$2,019.25	\$1,009.62	1,650.56	\$4,241.94	\$424.19	6	\$212.10	\$1,222
	9689106645	0.41	17,859.60	\$33,100.00	\$1.85	1,147.80	\$2,123.43	\$1,061.72	3,130.32	\$5,791.09	\$579.11	6	\$289.55	\$1,351
	9689204449	0.23	10,018.80	\$30,600.00	\$3.05	214.36	\$653.80	\$326.90	929.84	\$2,836.01	\$283.60	6	\$141.80	\$469
	9689206662	0.25	10,890.00	\$31,000.00	\$2.85	156.51	\$446.05	\$223.03	577.86	\$1,646.90	\$164.69	6	\$82.35	\$305
	9689208383	0.21	9,147.60	\$30,200.00	\$3.30	1,394.56	\$4,602.05	\$2,301.02	3,178.07	\$10,487.63	\$1,048.76	6	\$524.38	\$2,825
	9689204528	0.30	13,068.00	\$15,900.00	\$1.22	1,152.96	\$1,406.61	\$703.31	2,734.85	\$3,336.52	\$333.65	6	\$166.83	\$870
	9689207276	0.28	12,196.80	\$31,400.00	\$2.57	0.00	\$0.00	\$0.00	998.58	\$2,566.35	\$256.64	6	\$128.32	\$128
	9689104478	0.85	37,026.00	\$35,400.00	\$0.96	3,859.00	\$3,704.64	\$1,852.32	7,034.87	\$6,753.48	\$675.35	6	\$337.67	\$2,190
	9689201505	0.27	11,761.20	\$31,300.00	\$2.66	1,532.64	\$4,076.82	\$2,038.41	2,460.92	\$6,546.05	\$654.60	6	\$327.30	\$2,366
	9689207671	0.29	12,632.40	\$31,600.00	\$2.50	1,302.19	\$3,255.48	\$1,627.74	2,264.59	\$5,661.48	\$566.15	6	\$283.07	\$1,911
	9689207329	0.35	15,246.00	\$32,400.00	\$2.13	2,393.71	\$5,098.60	\$2,549.30	2,905.54	\$6,188.80	\$618.88	6	\$309.44	\$2,859
	9689102451	0.44	19,166.40	\$27,200.00	\$1.42	2,962.50	\$4,206.75	\$2,103.38	4,271.65	\$6,065.74	\$606.57	6	\$303.29	\$2,407
	9689202556	0.30	13,068.00	\$31,700.00	\$2.43	762.73	\$1,853.43	\$926.72	2,047.54	\$4,975.52	\$497.55	6	\$248.78	\$1,175
	9689104284	3.26	142,005.60	\$76,100.00	\$0.54	1,316.70	\$711.02	\$355.51	3,059.57	\$1,652.17	\$165.22	6	\$82.61	\$438
	9689201586	0.29	12,632.40	\$31,600.00	\$2.50	758.59	\$1,896.48	\$948.24	2,292.18	\$5,730.45	\$573.05	6	\$286.52	\$1,235
	9689206289	0.29	12,632.40	\$31,600.00	\$2.50	0.00	\$0.00	\$0.00	1,683.47	\$4,208.68	\$420.87	6	\$210.43	\$210
	9689107347	0.39	16,988.40	\$32,900.00	\$1.94	1,092.08	\$2,118.64	\$1,059.32	3,449.91	\$6,692.83	\$669.28	6	\$334.64	\$1,394
	9689200535	0.20	8,712.00	\$30,000.00	\$3.44	365.69	\$1,257.97	\$628.99	743.84	\$2,558.81	\$255.88	6	\$127.94	\$757
	9689203536	0.27	11,761.20	\$31,300.00	\$2.66	838.06	\$2,229.24	\$1,114.62	1,845.89	\$4,910.07	\$491.01	6	\$245.50	\$1,360

Melody Circle Sanitary Sewer Replacement

Project Number 2010093

Compensation Budget

08-Jul-14

Pin Number and Name

27 Pin	83 Pin	Acres	Parcel SF	Land Value	LV/SF	PE	PE Assd. Value	50% PE Assd. Value	TCE SF	TCE Assd.	10% Annl Return	Proj Time (Months)	TCE Rent Value	Total Comp. (Rounded)
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TOTALS:	\$29,459
Staff Contingency:	\$15,000
GM's Contingency	\$15,000
Amendment	
Total Budget:	\$59,459

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

BOARD MEETING DATE: August 20, 2014

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

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

SUBJECT: Sanitary Sewer Rehabilitation Project: Fairfax Avenue, MSD Project No. 2004268

BACKGROUND: This project is for the replacement of an aged six-inch clay sewer line located in West Asheville, along Fairfax Avenue. The line is in poor structural condition.

The project is comprised of 2,042 LF of 8-inch DIP and is located entirely within the street.

The contract was advertised and six bids were received on Thursday, July 31, 2014 as follows:

<u>Contractor</u>	<u>Bid Amount</u>
1) Don Moorhead Const.	\$748,063.00
2) Thomas Const. Co.	\$631,076.00
3) Huntley Const. Co.	\$615,625.85
4) Davis Grading, Inc.	\$603,133.00
5) Dillard Excavating Co.	\$587,315.00
6) Terry Brothers Const. Co.	\$558,802.00

The apparent low bidder is Terry Brothers Const. Co. with a bid amount of \$558,802.00. Terry Brothers has completed numerous rehabilitation projects for MSD, and has a satisfactory performance history.

Please refer to the attached documentation for further details.

FISCAL IMPACT: The FY14-15 Construction Budget for this project is \$673,000.00.

STAFF RECOMMENDATION: Staff recommends award of this contract to Terry Brothers Const. Co. in the amount of \$558,802.00, subject to review and approval by District Counsel.

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

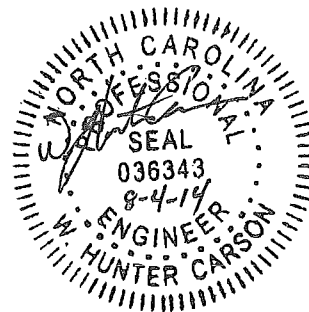
**FAIRFAX AVENUE (PRP 65001) SEWER REPLACEMENT
PROJECT NO. 2004268**

**BID TABULATION
July 31, 2014**

BIDDER	Bid Bond	MBE Form	Bid Forms (Proposal)	TOTAL BID AMOUNT
Don Moorhead Construction Company Belton, SC	5%	1	Yes	\$748,063.00
Thomas Construction Company Johnson City, TN	5%	1	Yes	\$631,076.00
Huntley Construction Company Asheville, NC	5%	1	Yes	\$615,625.85
Davis Grading, Inc. Shelby, NC	5%	1	Yes	\$603,133.00
Dillard Excavating Company Sylva, NC	5%	1	Yes	\$587,315.00
Terry Brothers Construction Company Leicester, NC	5%	1	Yes	\$558,802.00

APPARENT LOW BIDDER

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 31st day of July, 2014, 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, CIP Manager
Hunter Carson, Project Engineer

DATE: August 4, 2014

RE: Fairfax Avenue - PRP 65001 Sewer Replacement, MSD Project No. 2004268

The Fairfax Avenue – PRP 65001 Sewer Replacement project is located in West Asheville, approximately 0.5 mile west of the I-240/Haywood Road interchange. The project is in MSD Sub-basin No. 65, and includes sewer replacement on Fairfax Avenue from Wells Avenue south to Lilac Street.

Approximately 2,042 linear feet of 8-inch DIP sewer line will be installed to replace existing 6-inch VCP lines. The existing piping is in poor structural condition, and is located entirely within the street.

On July 31, 2014, six sealed bids were received at 2:00 pm as follows:

<u>Contractor</u>	<u>Bid Amount</u>
1) Don Moorhead Construction	\$748,063.00
2) Thomas Construction Company	\$631,076.00
3) Huntley Construction Company	\$615,625.85
4) Davis Grading, Inc.	\$603,133.00
5) Dillard Excavating Company	\$587,315.00
6) Terry Brothers Construction Co.	\$558,802.00

The apparent low bidder is Terry Brothers Construction Company with a bid amount of \$558,802.00. The FY14-15 construction budget for this project is \$673,000.00.

Terry Brothers Construction Company has extensive experience with District rehabilitation and replacement projects and has an excellent performance history.

Staff recommends award of this contract to Terry Brothers Construction Company contingent upon review and approval by District counsel.

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

BUDGET DATA SHEET - FY 2014 - 2015

PROJECT: Fairfax Avenue - PRP 65001	LOCATION: W. Asheville
TYPE: Pipe Rated Projects	PIPE RATING: 22
PROJECT NO.: 2004268	TOTAL LF: 2,042
PROJECT BUDGET: \$682,000.00	PROJECT ORIGIN: Pipe Rating Program

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/13	EST. COST JAN - JUNE 2014	EST. BUDGET FY 14-15
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN	\$3,000.00	\$2,962.00		
55330 - DESIGN				
55340 - PERMITS				
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS				
55370 - LEGAL FEES				
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION				
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$673,000.00			\$673,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING	\$2,000.00			\$2,000.00
55450 - SURVEY - ASBUILT	\$4,000.00			\$4,000.00
TOTAL AMOUNT	\$682,000.00	\$2,962.00	\$0.00	\$679,000.00

ENGINEER: MSD	HC	ESTIMATED BUDGETS - FY '15 -'24	
R.O.W. ACQUISITION: N/A	# PLATS: [0]	FY 15-16	\$0.00
CONTRACTOR:		FY 16-17	\$0.00
CONSTRUCTION ADM.: MSD		FY 17-18	\$0.00
INSPECTION: MSD		FY 18-19	\$0.00
		FY 19-20	\$0.00
		FY 20-21	\$0.00
PROJECT DESCRIPTION: This project is located in West Asheville and runs approximately 2,042 LF along Fairfax Ave., just south of Haywood Rd. The existing 6-inch vitrified clay pipe is in poor condition and will be replaced with 8-inch ductile iron pipe.		FY 21-22	\$0.00
		FY 22-23	\$0.00
		FY 23-24	\$0.00

SPECIAL PROJECT NOTES:



Fairfax Avenue - PRP 65001
Project No. 2004268

NOT TO SCALE



METROPOLITAN SEWERAGE DISTRICT
of
BUNCOMBE COUNTY, NORTH CAROLINA

Budget Map

Metropolitan Sewerage District of Buncombe County

BOARD ACTION ITEM

BOARD MEETING DATE: August 20, 2014

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

PREPARED BY: Ed Bradford, P.E. - Director of Engineering
Darin Prosser, P.E. - Project Manager

SUBJECT: Sanitary Sewer Rehabilitation Project: Crockett Avenue, MSD Project No. 2004265

BACKGROUND: This project is for the replacement of aged six and eight-inch clay sewer lines located in the Redwood Forest section of east Asheville. The lines are in poor structural condition, which has caused SSO's and maintenance problems.

The original project on Crockett Avenue was expanded to include an additional 764 LF adjacent to the downtown Sheraton hotel. This is to replace a problematic segment using the pipe-bursting method.

The total contract footage is 2,846 LF, which includes 1,380 LF of 8-inch DIP, and 1,466 LF of 8-inch through 12-inch HDPE pipe bursting.

The contract was advertised and three bids were received on Thursday July 31, 2014 as follows:

<u>Contractor</u>	<u>Bid Amount</u>
1) Dillard Excavating Co.	\$745,815.00
2) Huntley Construction Co.	\$699,479.86
3) Terry Brothers Const. Co.	\$676,842.00

The apparent low bidder is Terry Brothers Const. Co. with a bid amount of \$676,842.00. Terry Brothers has completed numerous rehabilitation projects for MSD, and has a satisfactory performance history.

Please refer to the attached documentation for further details.

FISCAL IMPACT: The FY14-15 Construction Budget for this project is \$625,000.00. The overage is due to the additional segment being added. There are sufficient funds within the CIP Budget for the overage.

STAFF RECOMMENDATION: Staff recommends award of this contract to Terry Brothers Const. Co. in the amount of \$676,842.00, subject to review and approval by District Counsel.

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

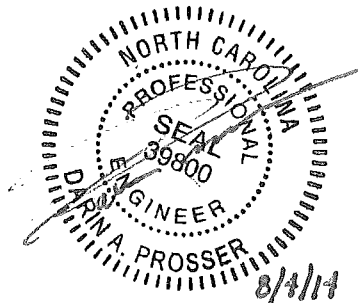
**CROCKETT AVENUE (PRP 36002)) SEWER REPLACEMENT
PROJECT NO. 2004265**

**BID TABULATION
July 31, 2014**

BIDDER	Bid Bond	MBE Form	Bid Forms (Proposal)	TOTAL BID AMOUNT
Dillard Excavating Company Sylva, NC	5%	1	Yes	\$745,815.00
Huntley Construction Company Asheville, NC	5%	1	Yes	\$699,479.86
Terry Brothers Construction Company Leicester, NC	5%	1	Yes	\$676,842.00

APPARENT LOW BIDDER

Darin Prosser, 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 2:30 p.m. on the 31st day of July, 2014, 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 Director
Darin Prosser, Project Manager

DATE: July 31, 2014

RE: Crockett Avenue Sewer Replacement, MSD Project No. 2004265

The Crockett Avenue Sewer Replacement project is located in East Asheville in the Redwood Forest subdivision near Haw Creek. This line is in poor condition and has caused multiple maintenance issues over the years.

Approximately 1,380 linear feet of 8-inch DIP pipe will be installed, as well as 702 linear feet of 8-inch pipe bursting, to replace a total of 2,082 LF of existing 6-inch and 8-inch VCP lines.

System Services requested that a problematic line segment at 22 Woodfin Street (the Sheraton Hotel) be added to this project because a pipe-bursting contractor will be available. Due to the number of improvements over the line, a trenchless approach is the most suitable method for this location. This additional work includes sewer line replacement in MSD Sub-basin No. 17 in the parking lot of the hotel and along Central Avenue. Approximately 764 linear feet of 12-inch HDPE sewer line will be installed to replace existing 10 and 12-inch VCP lines in poor condition.

Three sealed bids were received at 2:30 pm on July 31, 2014. The results were as follows:

<u>Contractor</u>	<u>Bid Amount</u>
1) Dillard Excavating Co.	\$745,815.00
2) Huntley Construction Co.	\$699,479.86
3) Terry Brothers Construction Co.	\$676,842.00

The apparent low bidder is Terry Brothers Construction Co. with a bid amount of \$676,842.00. The FY14-15 construction budget for this project is \$625,000.00. The overage is due to the addition of 287 linear feet of 12-inch HDPE at 22 Woodfin Street, including six new manholes. There are sufficient funds within the CIP budget for the overage.

Terry Brothers Construction Company has extensive experience with District rehabilitation projects, and has an excellent performance history.

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

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

BUDGET DATA SHEET - FY 2014 - 2015

PROJECT: Crockett Road - PRP 36002	LOCATION: Asheville
TYPE: Pipe Rated Projects	PIPE RATING: 15
PROJECT NO.: 2004265	TOTAL LF: 2,562
PROJECT BUDGET: \$680,451.00	PROJECT ORIGIN: Pipe Rating Program

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/13	EST. COST JAN - JUNE 2014	EST. BUDGET FY 14-15
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN	\$9,800.00	\$9,798.00		
55330 - DESIGN				
55340 - PERMITS				
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS	\$5,100.00	\$5,035.00		
55370 - LEGAL FEES	\$4,847.00	\$4,847.00		
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION	\$19,500.00	\$19,354.00		
55400 - APPRAISAL	\$4,250.00	\$4,250.00		
55410 - CONDEMNATION	\$2,554.00	\$2,554.00		
55420 - CONSTRUCTION	\$625,000.00	\$532.00		\$625,000.00
55430 - CONST. CONTRACT ADM.				
55440 - TESTING	\$3,000.00			\$3,000.00
55450 - SURVEY - ASBUILT	\$6,400.00			\$6,400.00
TOTAL AMOUNT	\$680,451.00	\$46,370.00	\$0.00	\$634,400.00

ENGINEER: MSD	DP	ESTIMATED BUDGETS - FY '15 -'24	
R.O.W. ACQUISITION: MSD	# PLATS: [3]	FY 15-16	\$0.00
CONTRACTOR:		FY 16-17	\$0.00
CONSTRUCTION ADM.: MSD		FY 17-18	\$0.00
INSPECTION: MSD		FY 18-19	\$0.00
		FY 19-20	\$0.00
PROJECT DESCRIPTION: This project is along Crockett Road, off US Hwy 70 and just east of I-240. This project will replace an existing sewer main in portions of Crockett Road, Beechwood Road, and Dogwood Court. The line is in poor condition and several repairs have been made by System Services. The project will require bore and jack across Tunnel Road. Additional work at 22 Woodfin Street has been added to this project. 480 LF of 12-inch fold and form or 12-inch cured in place pipe will be installed.		FY 20-21	\$0.00
		FY 21-22	\$0.00
		FY 22-23	\$0.00
		FY 23-24	\$0.00

SPECIAL PROJECT NOTES:



**Crockett Road - PRP 36002
Project No. 2004265**

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: 8/20/14

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

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

SUBJECT: Influent Pump Replacement at Water Reclamation Facility, MSD Project Number 2012030

BACKGROUND: The plant has three large pumps that lift all wastewater received at the plant up to the Grit and Grease Facility. The pumps have functioned well over time (these were first installed in 1986), and the internal parts have been replaced several times. The pump casings have been repaired as well.

Due to the age and wear of the pump casings it has been recommended that the District begin replacing these pumps. Staff proposed that the replacements be staggered so that the pumps do not reach the end of their normal life cycle all at once. Accordingly, one pump was replaced in FY12-13; and the next scheduled replacement is proposed for the current FY14-15.

Staff proposes to purchase the second new pump at this time, with the third scheduled for FY16-17. Ultimately, staff plans to retain the pump with the best internal parts, and will maintain it as a spare influent pump. Replacing the pumps in this manner reduces financial burdens upon the District, as well as operational risks at the plant.

Given the unique nature of these pumps, a primary overriding concern is that each pump must be standardized - with identical performance and fitment within the existing footprint and piping. The original pumps are still manufactured, and the new pump is basically a "drop-in" replacement for the existing unit.

The cost for one pump with factory testing is \$140,235.94, with a production & delivery time of approximately 7.5 months. A contractor will be utilized for pump installation after delivery of the unit.

Please refer to the attached documentation for further information.

FISCAL IMPACT: The FY14-15 budget for this project is \$160,000.00. The pump motor control replacement project (also scheduled for FY14-15) is \$675,000.00, giving a total construction budget of \$835,000.00.

STAFF RECOMMENDATION:

Staff recommends that the District sole-source procure a Morris Pump Model MF 30x30-27 in the amount of \$140,235.94.

Staff recommends this sole-source due to the fact that standardization, performance, and compatibility with the existing attachments, piping, and control system is a primary overriding concern.

Interoffice Memorandum

TO: Tom Hartye, General Manager

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

DATE: August 4, 2014

RE: Influent Pump Station Rehabilitation, MSD Project No. 2012030

The Influent Pump Station is arguably the most important component of the WRF. Without it, the treatment facility will not operate. Three influent pumps (one duty and two standby during average flow), each rated at 35 mgd, convey screened wastewater from the 66-inch interceptor to the grit and grease basin at the beginning of the treatment process. Without the ability to pump wastewater into the treatment plant, the collection system will back up and experience major SSOs.

In FY12-13, staff recommended replacing all three influent pumps due to their age and condition. The pumps were installed in 1988 and have been rebuilt on multiple occasions. The replacement was scheduled to occur over a 5-year period, with the first pump being replaced in FY12-13, the second in FY14-15, and the third in FY16-17. This staggered approach ensures that the pumps do not reach the end of their normal life cycle all at once, and reduces operational risks at the WRF and within the collection system.

Following Board approval in June, 2012, the first pump was purchased and replaced in FY12-13. The second replacement is recommended for the current fiscal year.

The replacement pump must possess identical performance conditions and footprint as the existing pump, and must therefore be of the same make and model, Morris Pump Model MF 30x30-27. A proposal was received from Heyward Services (Morris Pump sales representative) for one (1) pump on July 29, 2014 in the amount of **\$140,235.94**. This proposal includes the pump and all appurtenances, as well as factory testing. Morris Pump is the only manufacturer of the replacement pump, and as such, is proposed to be awarded a sole source contract upon Board approval.

Staff recommends that the District proceed with procurement of one replacement influent pump contingent upon review and approval by District legal counsel.



July 29, 2014

W. Hunter Carson, PE
Project Manager, CIP Division
MSD of Buncombe County
2028 Riverside Drive
Asheville, NC 28804

Reference: MSD of Buncombe County
French Broad River WWTP
Influent Pump Station Morris Replacement Pump
Heyward Services Proposal #07292014-MHD

Dear Hunter:

Per your request, the following is our Proposal #07292014-MHD, which is a revision to our previous Proposal #06302014-MHD, and includes a Flex-A-Seal mechanical seal and an option for non-witnessed factory testing.

The proposed pump is still a current production pump by Morris Pumps, now wholly owned by Grundfos Corporation. Therefore, the footprint will not change. We can provide a duplicate pump based upon the information on what was provided under the original pump serial numbers, PM 34734, PM 34735, and/or PM 34736.

We recommend that MSD of Buncombe County secure the services of Russell Underwood of Charles R. Underwood Company of Sanford, NC- or a mechanical contractor of your choosing- to perform the final alignment of the pump following installation of the pump by a qualified contractor. This will ensure the pump is properly aligned with the suction and discharge piping and be properly aligned with the existing Johnson Power shafting and the motor. The mechanical contractor would confirm the installation is accurate and the vibration results of operation are within the Hydraulic Institute Standards.

Specifically, we quote the following:

- 1) One (1) Morris Pump Model MF 30x30-27 bare pump, less motor and extended shafting, to have the same footprint as the original pump. The performance of this pump has been upgraded to include the following:

Rated duty shall be 24,300 gpm @ 52' TDH at 585 RPM. Impeller diameter shall be increased to 26.625".

- 2) In addition, a Flex-A-Seal mechanical seal will be provided in lieu of a packed stuffing box. This will be Model 10485X03C2VS2 with 6-1/2" Style 85 split cartridge seal and flush gland. Carbon vs silicon carbide/Viton O-Rings/316 S.S./Hast-C springs.

The pump shall be built as a bolt-in replacement (subject to concrete pier modifications) for the original pump. Three (3) sole plates shall be included to be mounted to the new concrete piers.

Heyward Services personnel will inspect the installation of the pumps by the general contractor and will perform the vibration readings of each pump at start-up and will return to the plant to record the vibration reading one month after initial start-up.

Factory standard submittal drawings for approval will be provided.

Two (2) copies of the factory standard O&M manuals for the pump will be provided.

Your net price for the above described equipment is \$136,035.94, lot, F.O.B. shipping point, with full freight allowed to the job site, not unloaded.

Non-witnessed factory testing can be performed for an adder of \$4,200.

Upon approval of the submittal drawings, the pump will be released to manufacturing, requiring 28 weeks for completion and shipping. If the factory testing is chosen, one (1) additional week will be required for shipping.

Startup service is included in the pricing of the above items and will not be broken out as a separate item. While our offering includes startup service, we are not a subcontractor.

Please note that our pricing does not include any videotaping. If videotaping is required, it is to be by others. We only allow videotaping after a waiver is signed, acknowledging that videotaping is not a replacement for thorough knowledge of the Installation, Operation, and Maintenance Manuals. We must be furnished with a review copy of any videotape made of our personnel during start-up or operator training. In the event the Purchaser wishes to videotape the Heyward Services field service personnel for start-up and/or during field service, Purchaser expressly waives any claim against Heyward Services, for injury or damage caused by inaccuracies or errors in such videotape(s) and understands that such videotaping is done by Purchaser at its sole risk.

Please note that our pricing does not include the provision of any safety equipment required for Confined Space entry. It shall be the sole responsibility of the Purchaser to determine if the need for safety equipment exists and to make this equipment available (at no charge) to our personnel. Heyward Services field services personnel reserve the right to refuse entry into areas they determine to be classified as OSHA defined Confined Space without proper safety provisions or other areas (or situations) deemed unsafe in general.

Please note that our pricing does not include any sales, use, excise or similar tax, or any export, import, or other duties. Any such taxes or duties that are applicable to the sale shall be paid by the purchaser.

Please note that our pricing does not include any installation, wiring, painting, bolting or any other items not specifically referenced above.

All prices are **FOB shipping point**, with full freight allowed to the jobsite, not unloaded. **Please note**, since we will not have personnel on site, we cannot accept shipping terms of F.O.B. jobsite.

All pricing is based on shipment on or before May 1, 2015. If this date is not acceptable, please let me know, and we will advise of any pricing differential.

Heyward Services, Inc., shall not be liable for damages occasioned by delay in the performance or delivery due to causes beyond the control of Heyward Services, Inc. Time lost for delivery shall be extended equal to the time lost by reason of any such delay. If equipment, as originally specified, is

delayed by the purchaser, Heyward Services, Inc., reserves the right to invoice the purchaser and store the products at the purchaser's expense.

Cancellation or suspension by the purchaser will only be accepted on terms indemnifying Heyward Services Inc., against loss.

Prices quoted are firm for 60 days. If we are not in receipt of a purchase order or letter of intent to purchase by the end of the firm price period, we reserve the right to modify the prices quoted.

Terms of payment – Net 30 Days.

All pricing is based on terms and conditions as stated herein. If other terms are requested, we reserve the right to adjust the prices quoted to suit the requirements of those modified terms, if they are acceptable. Any past due balances will be subject to a 1-1/2% per month interest charge.

A copy of Heyward Services, Inc.'s, standard terms and conditions is attached and made a part of this proposal.

Should a purchase order result from this proposal, please address such order to:

HEYWARD SERVICES, INC.
2101-A CAMBRIDGE BELTWAY DRIVE
CHARLOTTE, NC 28273

If you have any questions concerning this proposal, please contact the writer at (864) 414-5845 or mdavis@heyward.net.

Yours truly,

Michael H. Davis for
HEYWARD SERVICES, INC.

Attachment: T&C's

HEYWARD SERVICES, INC. STANDARD TERMS AND CONDITIONS OF SALE

1. Purchase Orders

All purchase orders shall be address to Heyward Services, Inc., Charlotte, North Carolina and shall be subject to acceptance by Heyward Services, Inc.

2. Exceptions

Sale of the equipment and services identified on the face of this quotation will be solely upon the terms and conditions set forth herein. These terms and conditions supersede and reject any conflicting terms and conditions of the purchaser, any statement in the purchaser's terms and conditions to the contrary notwithstanding. Exceptions to any of our terms and conditions must be contained in a written or typed (not printed) statement received from you. We shall not be deemed to have waived any of our terms and conditions or to have assented to any modification or alteration of such terms and conditions unless such waiver or assent is in writing and signed by an authorized officer of Heyward Services Inc.

3. Credit

All purchase orders received are subject to credit approval of Heyward Services, Inc. We reserve the right to suspend or delay shipments of material covered by your purchase order if in our opinion, there is sufficient reason to suspect potential payment default. In such a case, in addition to any other remedies herein or by law provided, cash payment or satisfactory security from you may be required by us before shipment of material is made. Acceptance by us of less than full payment shall not be a waiver of any of our rights.

4. Warranties

Heyward Services, Inc. is not a manufacturing firm; therefore, the warranties for the material identified hereon is subject to such warranties as may be given by their respective manufacturer. THESE PROVISIONS CONSTITUTE SELLERS SOLE WARRANTY AND HEYWARD SERVICES, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY AND NO EXPRESSED OR IMPLIED WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE.

5. Shipment

All shipments will be made F.O.B. shipping point unless otherwise specified in this quotation. In the absence of specific instructions, Heyward Services, Inc. will select the carrier. Title to and risk of loss for the material shall pass to the purchaser upon delivery to the carrier or delivery service. Material held for the purchaser or stored for the purchaser shall be at the risk and expense of the purchaser.

6. Seller's Liability

Seller shall not be liable for any loss, damage, cost of repair, incidental or consequential damage of any kind, whether based upon warranty, contract or negligence, and arising in connection with the sale, use or repair of the products. Seller's maximum liability shall not in any case exceed the contract price for the products claimed to be defective or unsuitable.

7. Returned Goods

Heyward Services, Inc. will not accept products for return unless prior written permission of Heyward Services, Inc. has been obtained.

8. Backcharges

Under no circumstances will Heyward Services, Inc. accept any backcharges from the contractor or owner unless Heyward Services, Inc. participated in and agreed, in writing, with the decisions which resulted in the backcharge.

9. Errors

Heyward Services, Inc. reserves the right to correct clerical or stenographic errors or omissions.

10. Field Services

Whenever a Field Service Representative is provided by Heyward Services, Inc., the representative shall act only in an advisory capacity. He will interpret the Company's drawings, advise the purchaser regarding the sequence of steps in erection, installation, inspection, start-up, dismantling, or repairs and explain features and components of the Company's products and their function. He will offer constructive criticism of work conditions, methods, and procedures at the jobsite. He will not be required to superintend or supervise personnel supplied by the purchaser or train them in their respective crafts in connection with the performance of their work. If, however, at the request of the purchaser and if Heyward Services, Inc. agrees that the representative will act in another capacity, he shall do so in accordance with normal standards of the industry for that type of work.

Whenever Heyward Services, Inc. is involved in rehabilitative work for a customer, there is no warranty extended that repair or rehabilitative work performed will be successful. All risk in such cases shall be with the purchaser and decisions with respect to repair or replacement of the purchaser's equipment or parts thereof, shall remain solely with the purchaser. Neither Heyward Services, Inc. nor the representative shall be responsible for any acts, omissions, or workmanship of employees, contractors, subcontractors, or agents of the purchaser or for their failure to follow the advice or instructions of the representative.

11. Purchaser's Responsibility

Purchaser shall furnish at his own expense and responsibility, all cranes, rigging, tools, facilities and equipment, material and repair or replacement parts, together with sufficient skilled and common labor and foreman, supervisors, and interpreters for the efficient performance of all work. He shall further designate a person in his organization to represent him fully at the site in all contacts and dealings with the representative. The purchaser's representative shall be responsible for coordinating the work and shall be in charge of labor, supplies, tools, and facilities to be furnished by the purchaser. Purchaser's representative shall inspect and shall be authorized to accept all details of the work as they are completed.

12. Entire Agreement.

Terms and provisions contained in this proposal shall constitute the entire agreement between Heyward Services, Inc., and the person or organization to whom this proposal is directed.

HS-1-00

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

BUDGET DATA SHEET - FY 2014 - 2015

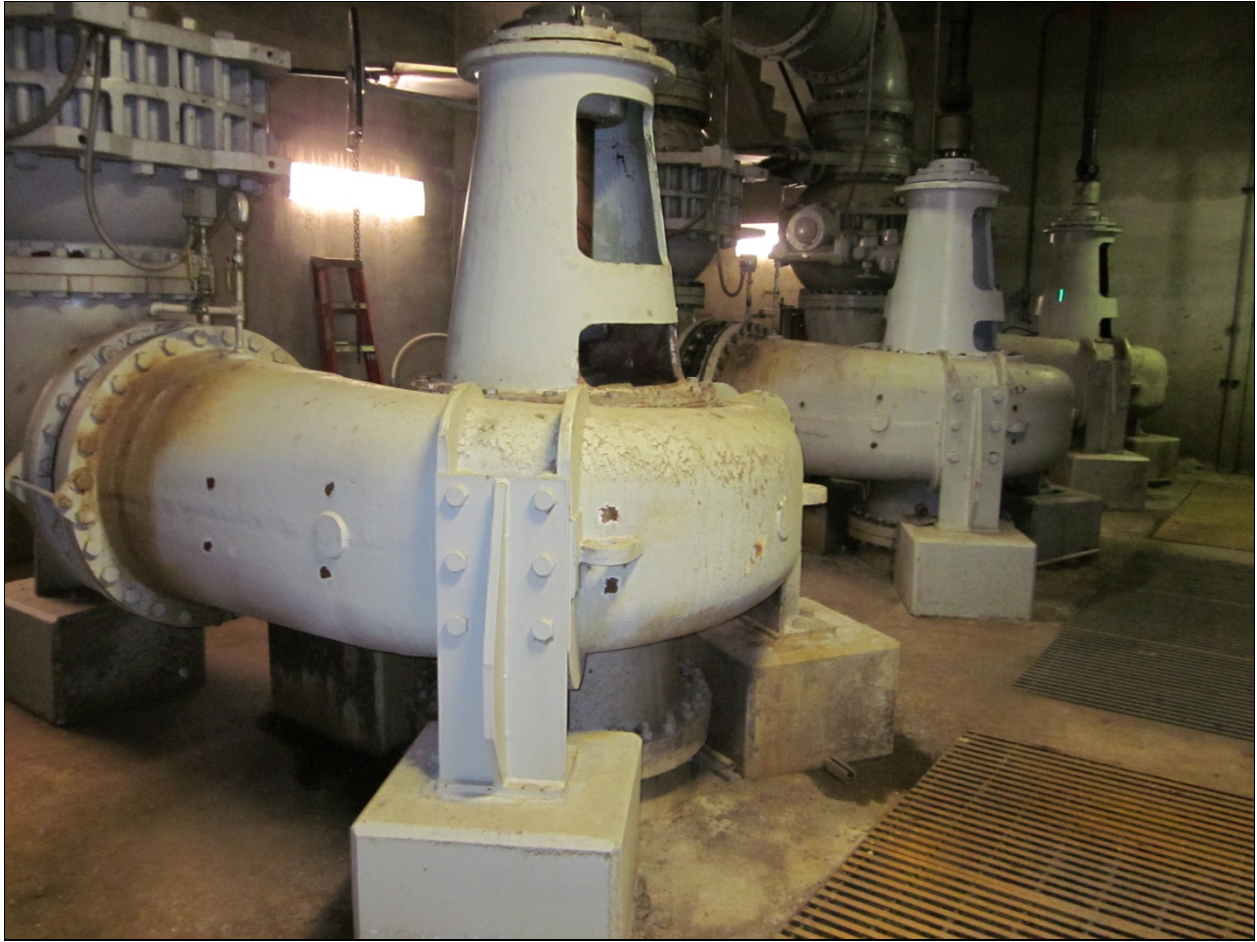
PROJECT: Influent Pump Station Rehabilitation	LOCATION: MSD-Treatment Plant
TYPE: Treatment Plant	PIPE RATING: N/A
PROJECT NO.: 2012030	TOTAL LF: 0
PROJECT BUDGET: \$1,262,500.00	PROJECT ORIGIN: Aging Equipment

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/13	EST. COST JAN - JUNE 2014	EST. BUDGET FY 14-15
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN	\$5,000.00			\$5,000.00
55330 - DESIGN	\$50,000.00			\$50,000.00
55340 - PERMITS				
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS				
55370 - LEGAL FEES				
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION				
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$1,177,000.00	\$161,965.00	\$20,000.00	\$835,000.00
55430 - CONST. CONTRACT ADM.	\$25,000.00			\$25,000.00
55440 - TESTING	\$5,500.00	\$500.00		\$5,000.00
55450 - SURVEY - ASBUILT				
TOTAL AMOUNT	\$1,262,500.00	\$162,465.00	\$20,000.00	\$920,000.00

ENGINEER: MSD	HC	ESTIMATED BUDGETS - FY '14 -'23	
R.O.W. ACQUISITION: N/A	# PLATS: [0]	FY 15-16	\$0.00
CONTRACTOR:		FY 16-17	\$160,000.00
CONSTRUCTION ADM.: MSD		FY 17-18	\$0.00
INSPECTION: MSD		FY 18-19	\$0.00
		FY 19-20	\$0.00
PROJECT DESCRIPTION: This project is to rehabilitate the influent pump station at the plant. The existing motor controls have deteriorated over the years and must be replaced. New controls will be installed and the air space will be conditioned. One pump was replaced in FY13-14. The other two pumps have been re-built multiple times and are approximately 25 years old. These remaining two pumps will be replaced in FY14-15 and FY16-17.		FY 20-21	\$0.00
		FY 21-22	\$0.00
		FY 22-23	\$0.00
		FY 23-24	\$0.00

SPECIAL PROJECT NOTES: Pump replacement cost is \$160,000 and includes the pump and installation.
All work to be subcontracted due to safety and liability concerns.

MSD Influent Pumps - Three Total



Three influent pumps - the largest pumps in MSD's system. Typically, only one pump is needed to maintain *all* wastewater flowing through the plant.



Influent Pump Station Rehabilitation Project No. 2012030

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: 8/20/14

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

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

SUBJECT: Influent Pump VFD Replacement Project, MSD Project Number 2012030

BACKGROUND: The plant has three large pumps that lift all wastewater received at the plant up to the Grit and Grease Facility. These pumps are powered by large 400 Hp motors, which in turn are controlled by Variable Frequency Drives (VFD's).

The VFD's allow the pumps to ramp their speed up or down to match the incoming flow to the plant. This is more efficient than having pumps which cycle on and off at full power. In smaller pump stations, pumps are typically run in either full-on or full-off mode, and cycled accordingly.

The VFD's have functioned well over time (these were last replaced in 1998), and the internal parts have been replaced as required. This equipment has become obsolete, however, and replacement parts cannot easily be obtained due to the age of the units.

Another problem is the operating environment. VFDs are comprised of sensitive electronic components, and in their current location within the pump building, are subject to corrosion. In order to prevent this from occurring in the future, these units will be relocated to outside of the main pump building in a separate climate-controlled enclosure.

Given the unique nature of these controls, a primary overriding concern is that the VFDs be standardized with other VFDs located within the plant.

For this reason, staff is seeking authority to specify a sole-source for the VFD make & model (Allen-Bradley Powerflex 755). This specification will then be incorporated into a competitively-bid construction contract.

Please refer to the attached documentation for further information.

FISCAL IMPACT: There is no fiscal impact at this time. Staff is seeking authority to specify a particular make & model of VFD for the construction contract.

STAFF RECOMMENDATION:

Staff recommends that the District include a sole-source specification for Allen-Bradley Powerflex 755 VFDs in the competitively-bid construction contract for installation of the VFD's .

Staff recommends this sole-source due to the fact that standardization of the VFDs with other existing Allen-Bradley VFDs within the plant is a primary overriding concern.



MEMORANDUM – SOLE SOURCE RECOMMENDATION

MSD of Buncombe County
French Broad River Water Reclamation Facility
Influent Pump AFD Replacement

B&V Project 183439
B&V File 14.2100
August 8, 2014

Background:

MSD plans to replace adjustable frequency drives (AFDs) for the existing influent pumps located in the existing Influent Pump Station and Screening Facility. The existing pump motors are 460 VAC, 400 hp, and driven by Allen-Bradley AFDs. The existing AFDs are located inside the pump station in an unconditioned space, have been subject to corrosive gases, and require replacement for reliability purposes. The new AFDs will be located in a prefabricated metal electrical enclosure adjacent to the pump station. This will be an air conditioned space.

Recommendation:

Black & Veatch recommends that MSD purchase, by way of incorporation into general construction bid documents, new Allen-Bradley AFDs, model PowerFlex 755 as manufactured by Rockwell Automation to the exclusion of products by other manufacturers. Reference is made to North Carolina General Statute 143-129. As permitted under §143-129(e)(6), Black & Veatch recommends an exception to requirements for competitive bidding. In this case, standardization and compatibility with other existing equipment within the French Broad River Water Reclamation Facility (WRF) and at the Carrier Bridge Pump Station are overriding considerations for sole-sourcing AFDs from Rockwell Automation. AFDs from Rockwell Automation are used in the existing systems as follows:

- Pumps in the Carrier Bridge Lift Station – 3 drives
- Existing Influent Pumps – 3 drives
- Intermediate Pumps – 3 drives
- AquaDisk® Filter System – 8 drives
- Thickened Sludge Pumps – 3 drives
- Polymer Feed Pumps – 4 drives

By purchasing AFDs from Rockwell Automation, MSD will realize the benefit of standardization with regard to stocking spare parts as well as familiarity in operation and maintenance of the drives.

BLACK & VEATCH INTERNATIONAL COMPANY

Jeff Wells, P.E.
Senior Project Manager

MSD Influent Pumps - Variable Frequency Drives



This is one of three existing Allen-Bradley VFDs which control the 400 HP motors.



These are the 400 HP motors, which power the three influent pumps.

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

BUDGET DATA SHEET - FY 2014 - 2015

PROJECT: Influent Pump Station Rehabilitation	LOCATION: MSD-Treatment Plant
TYPE: Treatment Plant	PIPE RATING: N/A
PROJECT NO.: 2012030	TOTAL LF: 0
PROJECT BUDGET: \$1,262,500.00	PROJECT ORIGIN: Aging Equipment

DESCRIPTION	ESTIMATED PROJECT COST	TOTAL EXPENDS THRU 12/31/13	EST. COST JAN - JUNE 2014	EST. BUDGET FY 14-15
55310 - PRELIM. ENGINEERING				
55320 - SURVEY - DESIGN	\$5,000.00			\$5,000.00
55330 - DESIGN	\$50,000.00			\$50,000.00
55340 - PERMITS				
55350 - SPECIAL STUDIES				
55360 - EASEMENT PLATS				
55370 - LEGAL FEES				
55380 - ACQUISITION SERVICES				
55390 - COMPENSATION				
55400 - APPRAISAL				
55410 - CONDEMNATION				
55420 - CONSTRUCTION	\$1,177,000.00	\$161,965.00	\$20,000.00	\$835,000.00
55430 - CONST. CONTRACT ADM.	\$25,000.00			\$25,000.00
55440 - TESTING	\$5,500.00	\$500.00		\$5,000.00
55450 - SURVEY - ASBUILT				
TOTAL AMOUNT	\$1,262,500.00	\$162,465.00	\$20,000.00	\$920,000.00

ENGINEER: MSD	HC	ESTIMATED BUDGETS - FY '14 -'23	
R.O.W. ACQUISITION: N/A	# PLATS: [0]	FY 15-16	\$0.00
CONTRACTOR:		FY 16-17	\$160,000.00
CONSTRUCTION ADM.: MSD		FY 17-18	\$0.00
INSPECTION: MSD		FY 18-19	\$0.00
		FY 19-20	\$0.00
PROJECT DESCRIPTION: This project is to rehabilitate the influent pump station at the plant. The existing motor controls have deteriorated over the years and must be replaced. New controls will be installed and the air space will be conditioned. One pump was replaced in FY13-14. The other two pumps have been re-built multiple times and are approximately 25 years old. These remaining two pumps will be replaced in FY14-15 and FY16-17.		FY 20-21	\$0.00
		FY 21-22	\$0.00
		FY 22-23	\$0.00
		FY 23-24	\$0.00

SPECIAL PROJECT NOTES: Pump replacement cost is \$160,000 and includes the pump and installation.
All work to be subcontracted due to safety and liability concerns.



**Influent Pump Station Rehabilitation
Project No. 2012030**

NOT TO SCALE



METROPOLITAN SEWERAGE DISTRICT
of
BUNCOMBE COUNTY, NORTH CAROLINA

Budget Map

Metropolitan Sewerage District of Buncombe County Board Action Item

Meeting Date: August 20, 2014

Subject: Consideration of Procurement – Bioxide 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 conducting a four-month testing and evaluation of products for odor and hydrogen sulfide control in the South French Broad Interceptor. Results of this testing demonstrates that the Bioxide ® product still successfully minimizes the adverse effects of sulfide formation in wastewater that attacks cement piping and equipment in an effective and superior manner. Bioxide ® Solution is a patented product, manufactured by Evoqua Water Technologies (formerly Siemens Industry). It is uniquely engineered for collection systems by providing treatment for long detention times.

Discussion: Pursuant to North Carolina Purchasing Statutes for Sole-source purchases (143-129(e)(6) and MSD Procedures, with compatibility being an overriding consideration as the basis for this sole source procurement, this procurement request for a six (6) month interval only is presented to the MSD Board for approval. Evoqua Water Technologies has been a supplier to MSD in past years providing Bioxide ®, equipment delivery systems, and on-site support as a unique solution. The patented product controls hydrogen sulfide odors and corrosion biologically in a more cost effective solution than previously used hydrogen peroxide. MSD staff feels comfortable with both the quality of the chemical provided and customer service.

Fiscal Impact: This is a Unit Price Contract, without minimum or maximum quantities. Based on an estimated use of 36,000 gallons at \$2.84/gallon, the six month expenditure for Bioxide ® is anticipated to be \$102,240.00 and is within levels budgeted by the WRF.

Staff Recommendation: Staff recommends that the Board award the contract for the supply of Bioxide ® to Evoqua Water Technologies at a unit price of \$2.84/gallon.

Metropolitan Sewerage District of Buncombe County Board Action Item

Meeting Date: August 20, 2014

Subject: Consideration of Waiver of Competitive Bids - New Backhoe, Fleet Replacement

Prepared by: Peter Weed - Director WRF Treatment and Maintenance
Mike Stamey - Director System Services
Julie Willingham, CLGPO - Purchasing Supervisor

Reviewed by: Billy Clarke - District Counsel
Scott Powell, CLGFO - Director Finance

Background: The District's policy is to annually evaluate the condition of fleet vehicles and purchase replacements when the estimated cost of repair and maintenance will exceed the cost of a new one. At the March 11, 2014, Fleet Replacement Committee meeting, the members recommended the purchase of one (1) New Backhoe Replacement, as presented to this Board for approval. This purchase was included in the FY2014-2015 Budget.

Discussion: Pursuant to North Carolina Purchasing Statute G.S. 143-129(g) and MSD Procedures, MSD staff is requesting MSD Board approval to waive competitive bidding and allow the purchase of this Backhoe from Contractors Machinery Tri Cities, Inc. In February of 2014, after a thorough demo and bidding process, Contractors Machinery was awarded a contract for a Case Backhoe, having been the lowest responsive bidder to MSD specifications. The bids from February, 2014, are summarized below. Contractors Machinery has agreed to extend to MSD the same or more favorable prices and terms as set forth in its previous contract. Staff believes it is in the best interest of MSD to purchase this same piece of equipment as operators are already trained on the machine functions, increases proficiency with machine operations itself, and allows for standardization of parts for repairs and routine maintenance.

Fiscal Impact: The total cost of this contract will be \$98,897.00, and funds are budgeted in the Fleet Replacement Fund.

Staff Recommendation: Staff recommends that the bid from Contractor's Machinery/Case Construction be awarded.

Vendor	Excavator Cost	Comments
Contractor's Machinery / Case Construction Johnson City, TN	\$98,897.00	Case 590SN
James River Equip. / John Deere Asheville, NC	\$99,450.00	410K John Deere

Metropolitan Sewerage District of Buncombe County

Board Action Item

BOARD MEETING DATE: August 20, 2014

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 Stone Crest Sewer Extension Project.

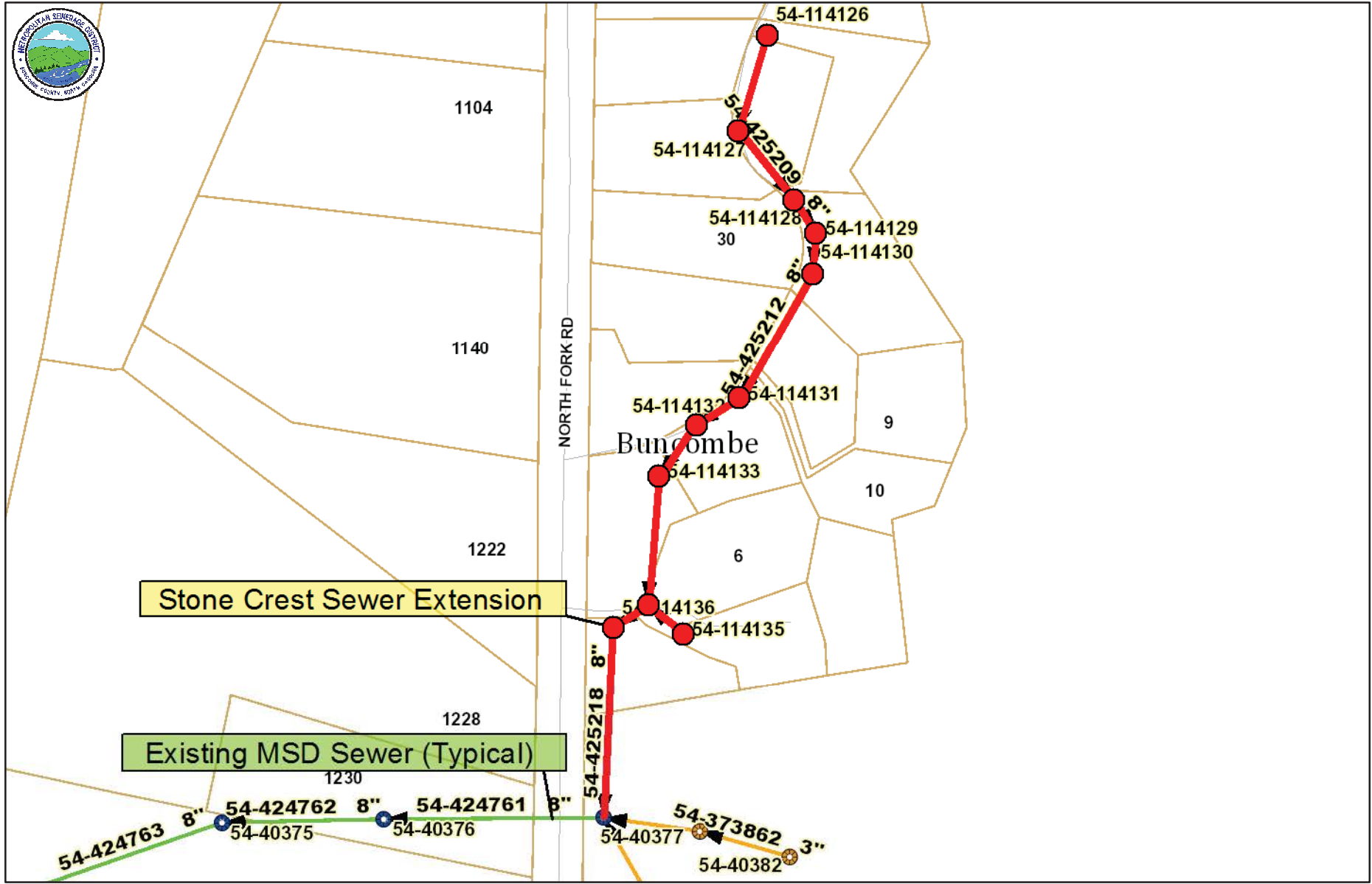
BACKGROUND: This project is located inside the District boundary off North Fork Road in the Town of Black Mountain. The developer of the project is Richard King of Black Mountain Concepts, Inc.

The project included extending approximately 1,145 linear feet of 8-inch public gravity sewer to serve the sixteen (16) unit residential development.

A wastewater allocation was issued in the amount of 4,800 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.



Stone Crest Sewer Extension MSD Project #2007210

Author: KJ

1 in = 173 ft

Date: 8/13/2014

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 INFORMATIONAL ITEM

Meeting Date: August 20, 2014
Submitted By: Thomas E. Hartye, PE., General Manager
Prepared By: W. Scott Powell, CLGFO, Director of Finance
Subject: Fourth Quarter Budget to Actual Review – FY2014

Background

At the end of each quarter, actual revenue and expenditure amounts are compared with the budget to evaluate performance. The fourth quarter report is analyzed to estimate year-end results, and project revenues and expenditures for the subsequent year's budget. See the attached schedule for comparison of year-to-date actual amounts at June 30, 2014 with original budget for FY2014.

Discussion

There are several explanatory notes at the bottom of the page to assist in using this schedule as a management tool. Other considerations are as follows:

- Domestic are at budgeted expectations. Staff believes Domestic User Fee variance will end up around 101% when June accounts receivable data is received from its Member Agencies in September. Industrial Revenue trended below budgeted expectation due to decrease consumption from two industrial users. Staff monitors consumption trends as they have a direct effect on the District's current and future revenue projections.
- Facility and Tap Fees are budgeted conservatively. This leads to actual revenues being significantly higher than budget. The unusually large variance as of the end of the second quarter is due to receiving unanticipated revenue of \$780,000 from one development.
- Interest and miscellaneous income are above budgeted expectations. This is a direct result of the District selling renewable energy credits associated with the Hydroelectric Facility. Investment income is still experiencing recessionary pressures on the fixed income market.
- Rental income reflects slightly better than expected earnings.
- Actual and encumbered O&M expenditures appear reasonable but once accruals and adjustments are made, may vary slightly in the final audit.
- Bond principal and interest are better than budgeted expectations. This is a direct result variable rate interest savings as well as the Series 2003 and Series 2008B refundings.
- Capital project expenditures are at approximately 85.16% of budget. This is due to projects receiving continued favorable pricing as well as project delays due to weather.

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:	

Board Meeting: August 20, 2014

Subject: Fourth Quarter Budget to Actual Review – FY2014

Page -2-

Metropolitan Sewerage District
Budget to Actual Revenue and Expenditure Report
For the twelve months ended June 30, 2014
UNAUDITED--NON-GAAP

	Budget	Actual to Date	% Budget to Actual
REVENUES			
Domestic User Fees ¹	\$ 27,367,458	\$ 27,651,909	101.04%
Industrial User Fees	1,710,390	1,759,695	102.88%
Facility Fees ²	1,250,000	4,056,675	324.53%
Tap Fees ³	105,000	373,800	356.00%
Billing and Collection	689,062	717,413	104.11%
Interest and Misc. Income	430,396	480,502	111.64%
Employee Contribution to Health Ins.	389,000	427,425	109.88%
City of Asheville (Enka Bonds)	37,000	37,126	100.34%
Proceeds from Revenue Bonds	28,000,000	27,995,540	99.98%
Rental Income	68,597	71,081	103.62%
Use of Available Funds ⁴	(19,199,450)	(26,214,859)	136.54%
Total Revenues⁵	\$ 40,847,453	\$ 37,356,306	91.45%
EXPENDITURES			
Operations and Maintenance ⁶	\$ 14,802,735	\$ 13,951,285	94.25%
Bond Principal and Interest	8,502,191	8,376,003	98.52%
Capital Equipment (Other than O&M) ⁶	805,000	775,987	96.40%
Capital Projects ⁶	15,737,527	14,253,032	85.16%
Contingency	1,000,000	-	-
Total Expenditures	\$ 40,847,453	\$ 37,356,306	91.45%

Notes:

¹ Revenues are on the cash basis

² Increase due to unanticipated revenue from eight (8) developments at \$2,113,640

³ Increase in number of Taps requiring Bore Fees

⁴ Pay-as-go funds to be used for CIP

⁵ Budget-to-Actual Ratio does not include use of available funds

⁶ Includes encumbered amounts as well as actual insurance expenditures

Metropolitan Sewerage District of Buncombe County

BOARD INFORMATIONAL ITEM

Meeting Date: August 20, 2014

Submitted By: Thomas E. Hartye, PE., General Manager

Prepared By: W. Scott Powell, CLGFO, Director of Finance
Cheryl Rice, Accounting Manager

Subject: Cash Commitment/Investment Report-Month Ended June 30, 2014

Background

Each month, staff presents to the Board an investment report for all monies in bank accounts and specific investment instruments. The total investments as of June 30, 2014 were \$56,863,523. The detailed listing of accounts is available upon request. The average rate of return for all investments is 0.570%. These investments comply with North Carolina General Statutes, Board written investment policies, and the District's Bond Order.

The attached investment report represents cash and cash equivalents as of June 30, 2014 do not reflect contractual commitments or encumbrances against said funds. Shown below are the total investments as of June 30, 2014 reduced by contractual commitments, bond funds, and District reserve funds. The balance available for future capital outlay is \$(2,617,218).

Total Cash & Investments as of 06/30/2014		56,863,523
Less:		
FY15 O & M Expenditures approved June 11, 2014	(14,893,280)	
FY15 Construction Expenditures approved June 11, 2014	<u>(22,760,555)</u>	
		(37,653,835)
Bond Restricted Funds		
Bond Service (Funds held by trustee):		
Funds in Principal & Interest Accounts	(6,303,665)	
FY15 Principal & Interest Due	<u>(10,389,488)</u>	
		(16,693,153)
District Reserve Funds		
Fleet Replacement	(339,549)	
WWTP Replacement	(457,743)	
Maintenance Reserve	<u>(913,178)</u>	
		(1,710,470)
District Insurance Funds		
General Liability	(479,867)	
Worker's Compensation	(398,277)	
Post-Retirement Benefit	(1,206,301)	
Self-Funded Employee Medical	<u>(1,338,838)</u>	
		(3,423,283)
Designated for Capital Outlay		<u><u>(2,617,218)</u></u>

Staff Recommendation

None. Information Only.

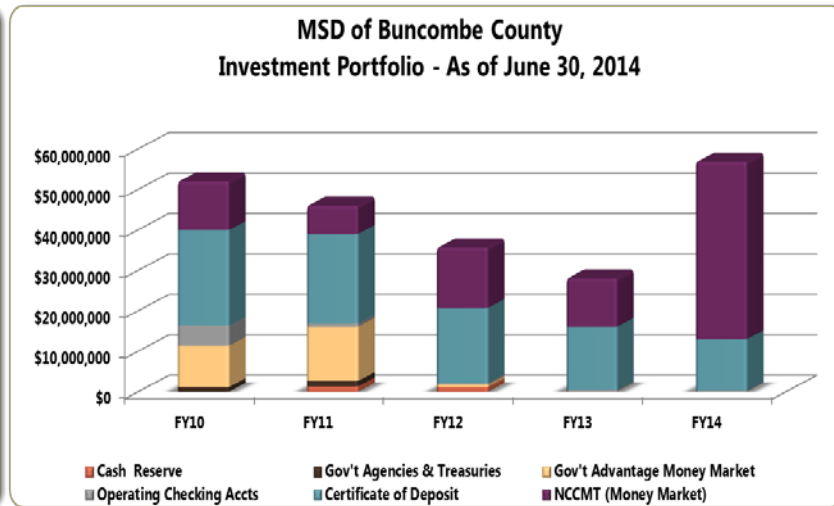
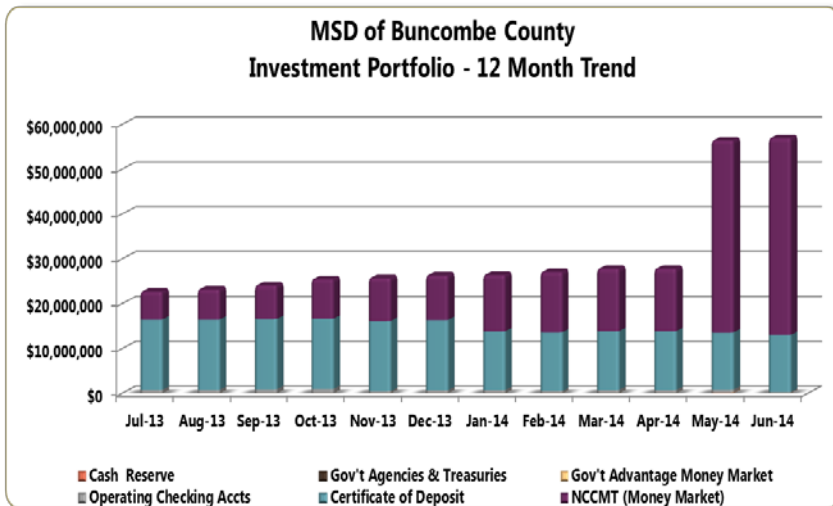
Action Taken

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	Cash Reserve	Gov't Agencies & Treasuries	Total
Held with Bond Trustee	\$ -	\$ -	\$ 6,303,665	\$ -	\$ -	\$ -	\$ 6,303,665
Held by MSD	203,525	46,659	37,552,583	12,757,091	-	-	50,559,858
	\$ 203,525	\$ 46,659	\$ 43,856,248	\$ 12,757,091	\$ -	\$ -	\$ 56,863,523

Investment Policy Asset Allocation	Maximum Percent	Actual Percent	
U.S. Government Treasuries, Agencies and Instrumentalities	100%	0.00%	No significant changes in the investment portfolio as to makeup or total amount.
Bankers' Acceptances	20%	0.00%	
Certificates of Deposit	100%	22.43%	The District's YTM of .29% is exceeding the YTM benchmarks of the 6 month T-Bill and NCCMT Cash Portfolio.
North Carolina Capital Management Trust	100%	77.13%	
Checking Accounts:	100%		All funds invested in CD's, operating checking accounts, Gov't Advantage money market are fully collateralized with the State Treasurer.
Operating Checking Accounts		0.36%	
Gov't Advantage Money Market		0.08%	



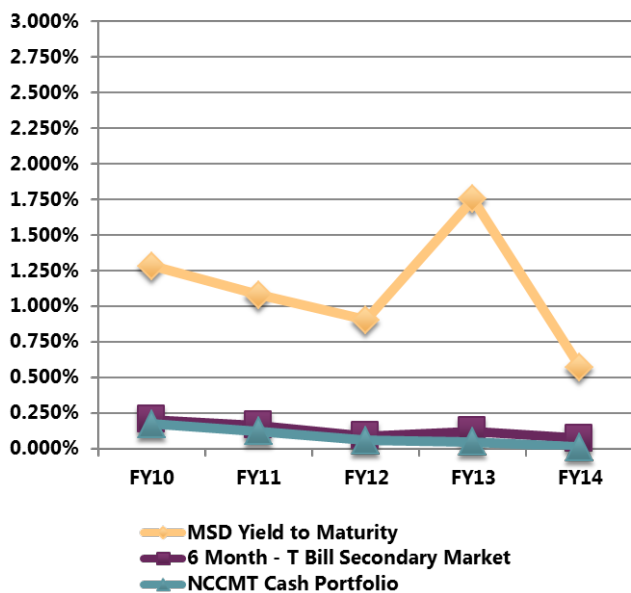
**METROPOLITAN SEWERAGE DISTRICT
INVESTMENT MANAGERS' REPORT
At June 30, 2014**

	Original		Interest Receivable
	Cost	Market	
Beginning Balance	\$ 54,047,355	\$ 54,047,355	\$ 391,938
Capital Contributed (Withdrawn)	(5,624,650)	(5,624,650)	
Realized Income	2,106	2,106	
Unrealized/Accrued Income			11,818
Ending Balance	\$ 48,424,811	\$ 48,424,811	\$ 403,756

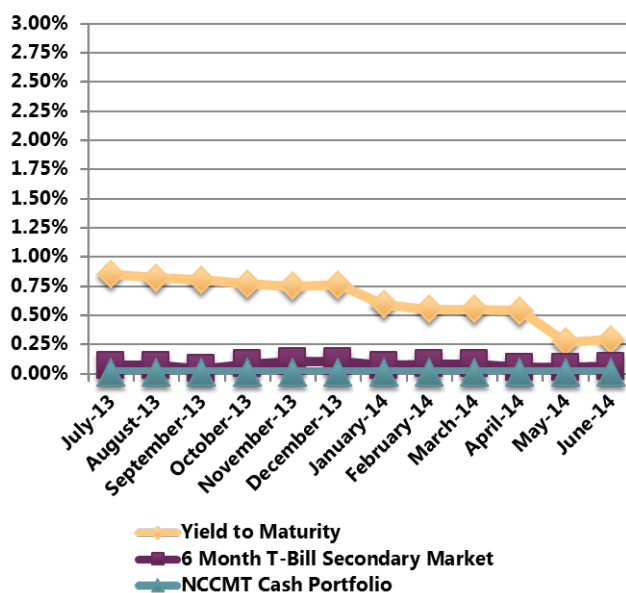
	Original Cost	Income
Cash Equivalents <91 Days	\$ 35,667,720	\$ 10,256
Securities/CD's 91 to 365 Days	12,757,091	3,668
Securities/CD's > 1 Year	-	-
	\$ 48,424,811	\$ 13,924

Month End Portfolio Information	
Weighted Average Maturity	91
Yield to Maturity	0.29%
6 Month T-Bill Secondary Market	0.06%
NCCMT Cash Portfolio	0.01%

**Metropolitan Sewerage District
Annual Yield Comparison**



**Metropolitan Sewerage District
Yield Comparison - June 30, 2014**



Board Meeting:

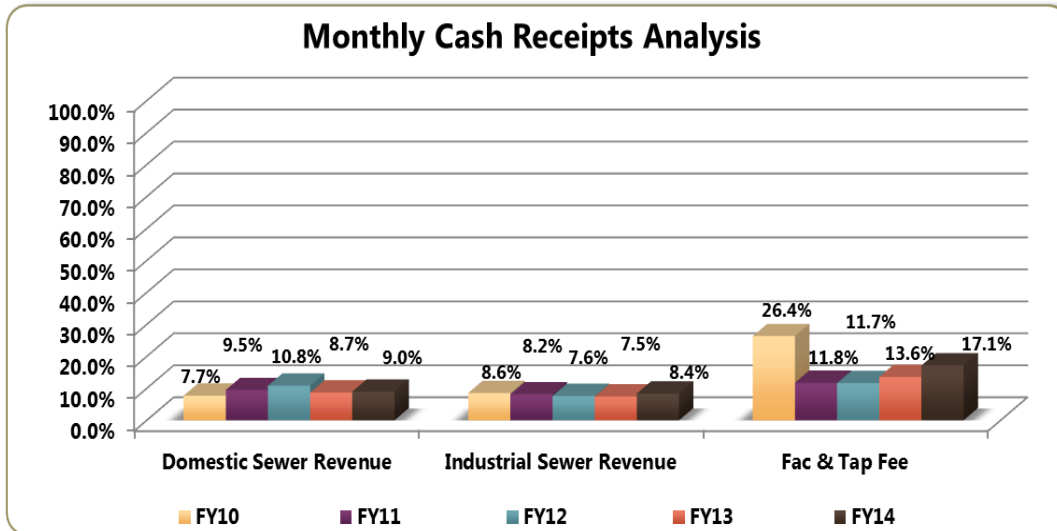
August 20, 2014

Subject:

Cash Commitment/Investment Report-Month Ended June 30, 2014

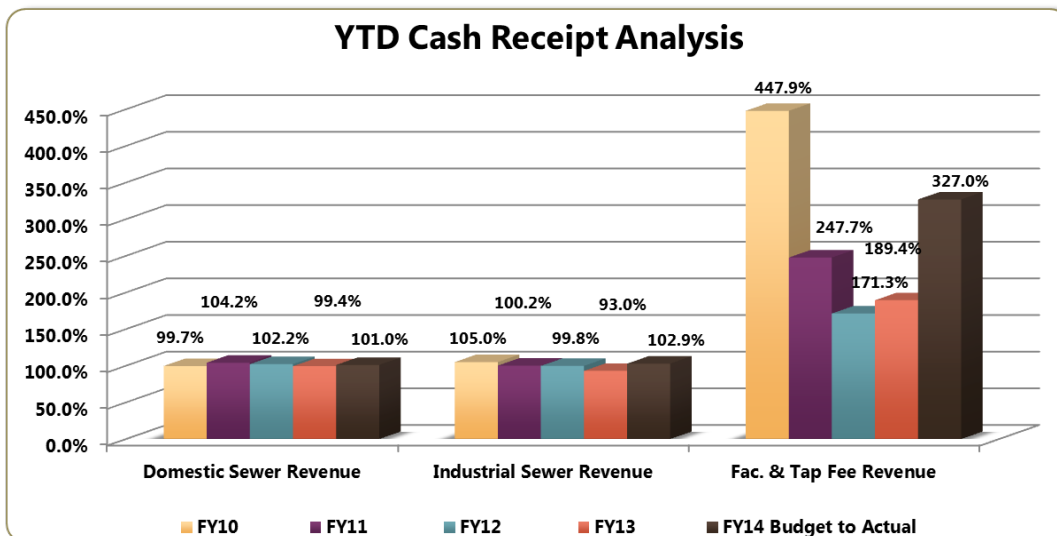
Page -4-

**METROPOLITAN SEWERAGE DISTRICT
ANALYSIS OF CASH RECEIPTS
As of June 30, 2014**



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 trending below budgeted expectations.
- 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 trending below budgeted expectations.
- Due to the unpredictable nature of facility and tap fee revenue, staff considers facility and tap fee revenue reasonable.

Board Meeting:

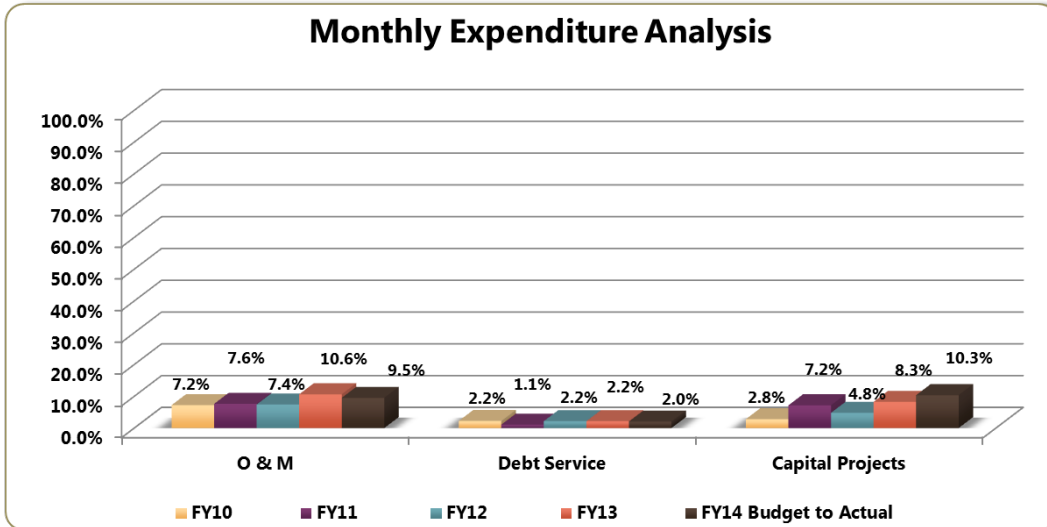
August 20, 2014

Subject:

Cash Commitment/Investment Report-Month Ended June 30, 2014

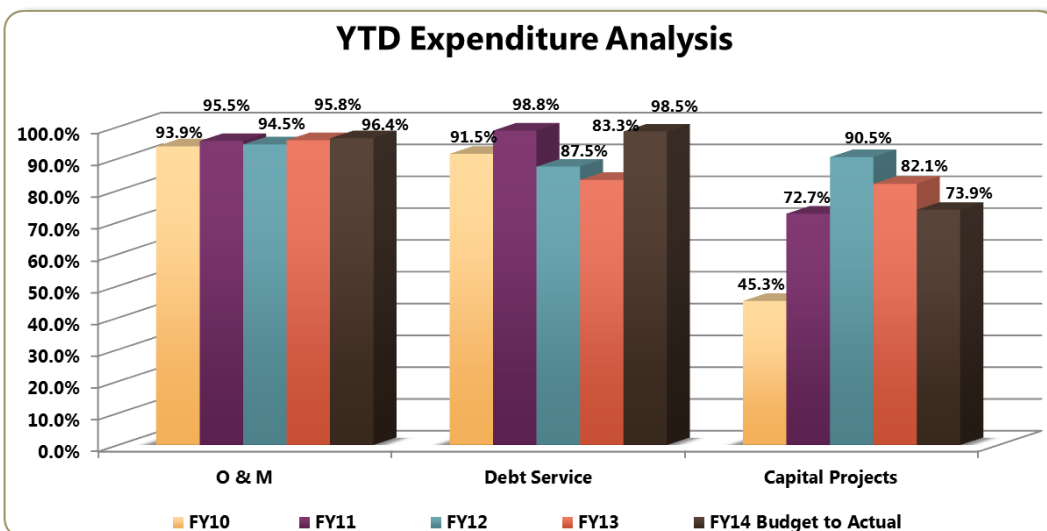
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**METROPOLITAN SEWERAGE DISTRICT
ANALYSIS OF EXPENDITURES
As of June 30, 2014**



Monthly Expenditure Analysis:

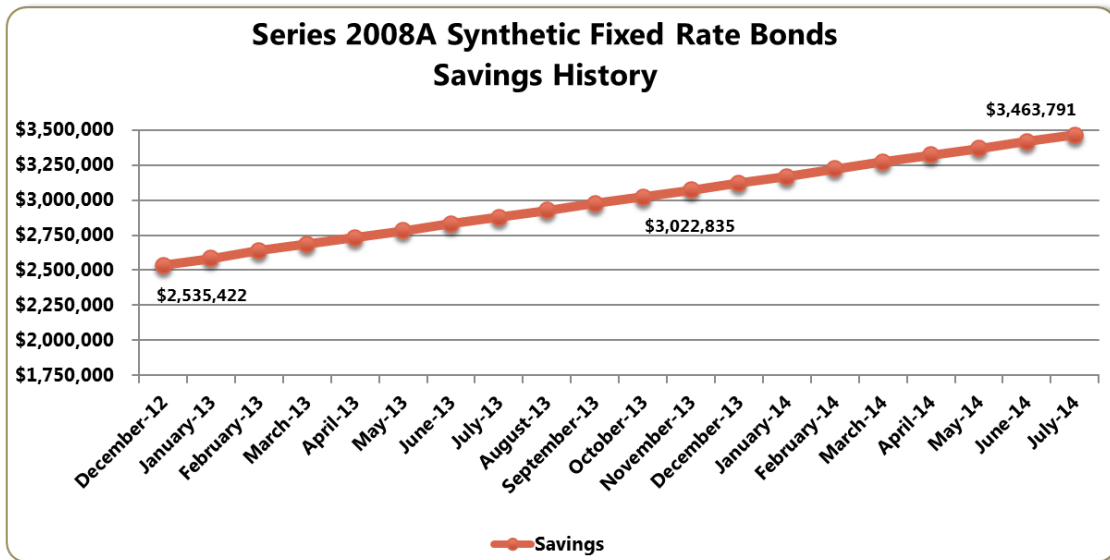
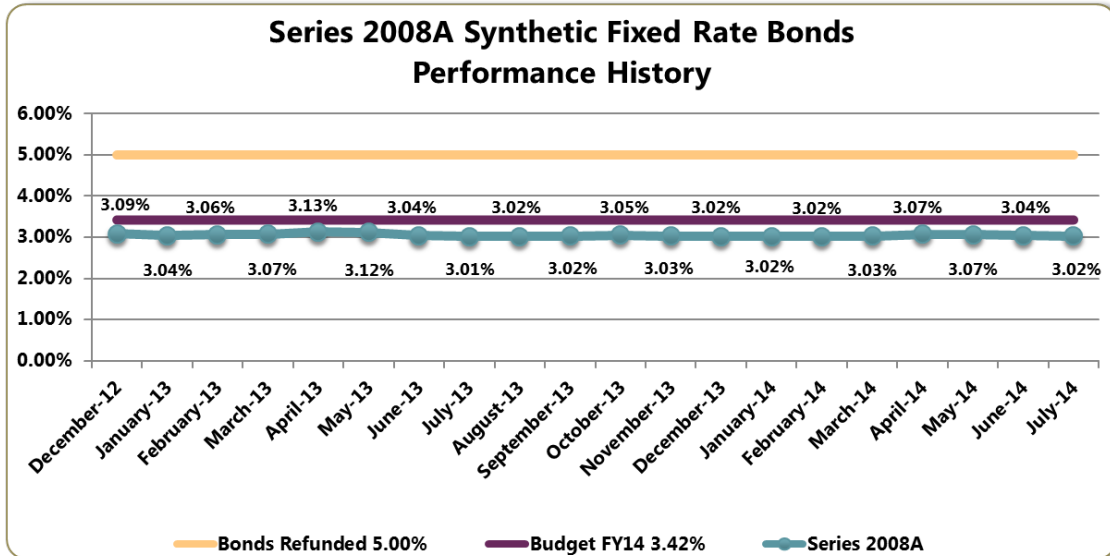
- ◆ Monthly O&M expenditures are considered reasonable based on historical trends and timing of expenditures in the current year.
- ◆ Due to the nature of the variable rate bond market, monthly expenditures can vary year to year. Based on current variable interest rates, monthly debt service expenditures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

**METROPOLITAN SEWERAGE DISTRICT
VARIABLE DEBT SERVICE REPORT
As of July 31, 2014**



Series 2008A:

- ✿ Savings to date on the Series 2008A Synthetic Fixed Rate Bonds is \$3,463,791 as compared to 4/1 fixed rate of 4.85%.
- ✿ Assuming that the rate on the Series 2008A Bonds continues at the current all-in rate of 4.0475%, MSD will achieve cash savings of \$4,730,000 over the life of the bonds.
- ✿ MSD would pay \$4,322,000 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	ESTIMATED FOOTAGE	ESTIMATED PROJECT DATES	WO#	CREW	COMPLETION DATE	ACTUAL FOOTAGE	Notes
Westwood Road Phase 2	400	6/25/14 - 7/4/14	215883	667	7/3/2014	400	complete
Penelope Street	400	7/14/14 - 8/15/14	470602	667	7/24/2014	415	complete
Shiloh Road (P/N 2012137)	350	7/15/14 - 7/31/14	456294	631	8/1/2014	354	complete
Emory Road* (P/N 2009137)	300	7/25/14 - 8/15/14	456301	667			Construction 50% complete
995 West Chapel Rd	100	8/1/14 - 8/15/14	211782	631			Construction 5% complete
Haywood Street Pump Station and Force Main	225	8/18/14 - 9/5/14	216297	631			ready for construction
Terre Drive	308	8/18/14 - 9/5/14	410100	667			ready for construction
Hickory Court*	1633	9/8/14 - 10/17/14	448319	631			ready for construction
91 Carter Cove	239	9/18/14 - 10/17/14	470613	667			ready for construction
N. Anne St.	550	TBA	400920	TBA			ready for construction
Sareva Place	957	TBA	410095	TBA			ready for construction
Rumbough Place	710	TBA	433539	TBA			ready for construction
Campus Drive	335	TBA	470606	TBA			Project 2010097, Ready for Construction
Robindale Ave	520	TBA	433537	TBA			ready for construction
18 Crestland Road	270	TBA	448974	TBA			ready for construction
165 Old County Home Road	1,100	TBA	433522	TBA			ready for construction
350 Old Haw Creek Road	1333	TBA	400923	TBA			ready for construction
Deanwood Circle	1292	TBA	400925	TBA			Ready for construction - Project Number 2012030, CIP Transmittal 204
Springside Drive	522	TBA	205995	TBA			ready for construction
110 Beaver Drive	425	TBA	470603	TBA			In Design
Chatham Rd	TBA	TBA	TBA	TBA			Preliminary Design
6 Hilderbrand Street	TBA	TBA	TBA	TBA			Preliminary Design
Upper Chestnut Ridge at lookout Road	800	TBA	470607	TBA			In Design
Maplewood Road	TBA	TBA	TBA	TBA			Preliminary Design - Service Reconnections
Martin Luther King Rehab	TBA	TBA	TBA	TBA			Preliminary Design
McCoy Cove Road Phase 2	TBA	TBA	433535	TBA			Preliminary Design - P/N 2012012
Meadowbrook*	1330	TBA	448320	TBA			In ROW
Montford Park	410	TBA	TEMP 137	TBA			Preliminary Design - CIP Transmittal 137
155 New Haw Creek Road	TBA	TBA	456318	TBA			Ready for construction
Old Farm School Road	TBA	TBA	456319	TBA			Preliminary Design - CIP Transmittal 231
11 Old West Chapel	TBA	TBA	TBA	TBA			Preliminary Design - CIP Transmittal 215
Starnes Avenue at Broadway Street	400	TBA	400927	TBA			In Design
184 West Chesnut	320	TBA	433541	TBA			Preliminary Design - Transmittal 196
Winnfred Street	420	TBA	400928	TBA			Preliminary Design IP Transmittal 218
Hunt Hill Place	786	TBA	400922	TBA			ready for construction
Carjen Avenue	825	TBA	410096	TBA			ready for construction
East Grovestone Quarry	780	TBA	457386	TBA			ready for construction



CONSTRUCTION TOTALS BY DATE COMPLETED - Monthly

From 7/1/2013 to 6/30/2014

	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 2013	36	16	108	628	40	23	2,264	0	0	0	0	0	0
August 2013	49	7	207	659	38	24	0	0	259	882	10	118	1259
September 2013	32	16	356	468	22	8	7,426	197	116	1217	11	0	1530
October 2013	28	22	406	921	42	35	17,950	288	375	1053	10	258	1974
November 2013	31	8	84	569	26	4	0	0	0	1192	12	147	1339
December 2013	36	9	131	676	32	17	500	0	0	1035	8	0	1035
January 2014	28	11	81	512	19	15	750	0	150	1801	18	492	2443
February 2014	34	19	104	783	41	7	1,161	0	92	620	5	0	712
March 2014	33	18	257	680	27	12	300	0	0	1281	15	544	1825
April 2014	25	14	147	1,044	11	35	754	0	441	2221	11	248	2910
May 2014	46	14	432	766	36	23	2,810	0	60	963	12	2,000	3023
June 2014	42	15	215	724	21	15	30,520	0	0	1981	14	0	1981
Grand Totals	420	169	2,528	8,429	355	218	64,435	485	1493	14246	126	3,807	20031

* Used to calculate Total Rehab Footage



PIPELINE MAINTENANCE TOTALS BY DATE COMPLETED - Monthly

July 01, 2013 to June 30, 2014

	Main Line Wash Footage	Service Line Wash Footage	Rod Line Footage	Cleaned Footage	CCTV Footage	Smoke Footage	SL-RAT Footage
2013							
July	81,515	2,058	5,143	86,658	33,284	2,080	12,186
August	60,003	1,509	5,763	65,741	37,005	35,663	12,680
September	56,833	1,230	6,981	63,739	32,358	18,324	20,686
October	58,691	3,187	4,418	63,104	33,888	22,886	26,287
November	28,280	1,891	6,184	34,464	26,252	500	6,992
December	45,483	3,133	4,389	49,837	30,863	4,286	10,919
2014							
January	53,575	2,602	4,387	57,892	23,412	250	2,885
February	49,058	3,480	5,587	54,595	23,475	650	6,255
March	73,305	2,747	8,416	81,530	25,932	65	11,032
April	90,269	2,882	8,672	98,941	37,874	650	10,803
May	51,486	1,878	6,027	57,393	35,652	2,667	2,535
June	49,617	2,427	5,566	55,143	36,176	200	19,086
Grand Total:	698,115	29,024	71,533	769,037	376,170	88,221	142,346
Avg Per Month:	58,176	2,419	5,961	64,086	31,347	7,352	11,862



CUSTOMER SERVICE REQUESTS

Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE RESPONSE TIME	AVERAGE TIME SPENT
DAY 1ST RESPONDER				
	July, 2013	156	39	40
	August, 2013	111	30	39
	September, 2013	79	28	37
	October, 2013	113	29	39
	November, 2013	72	27	40
	December, 2013	88	28	50
	January, 2014	110	30	38
	February, 2014	101	31	45
	March, 2014	117	26	40
	April, 2014	122	28	43
	May, 2014	135	31	37
	June, 2014	132	29	36
		1,336	30	40
NIGHT 1ST RESPONDER				
	July, 2013	46	38	33
	August, 2013	34	35	31
	September, 2013	18	26	24
	October, 2013	33	26	33
	November, 2013	31	27	34
	December, 2013	23	33	38
	January, 2014	36	26	20
	February, 2014	19	23	35
	March, 2014	37	30	25
	April, 2014	18	21	25
	May, 2014	18	37	50
	June, 2014	21	23	23
		334	30	30
ON-CALL CREW *				
	July, 2013	79	52	35
	August, 2013	42	62	48

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



CUSTOMER SERVICE REQUESTS Monthly - All Crews

CREW	MONTH	JOBS	AVERAGE RESPONSE TIME	AVERAGE TIME SPENT
ON-CALL CREW *				
	September, 2013	30	49	43
	October, 2013	35	48	53
	November, 2013	35	36	47
	December, 2013	71	36	56
	January, 2014	67	62	41
	February, 2014	65	54	44
	March, 2014	52	50	37
	April, 2014	69	55	39
	May, 2014	48	48	48
	June, 2014	27	45	42
		620	50	44
Grand Totals:		2,290	36	40

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

Right of Way Section 4th Quarter Summary Open Projects

<i>Project</i>	<i>Total ROW Budget</i>	<i>Total Expends to Date</i>	<i>Comment</i>
41 Walnut Lane Rehabilitation			This was an SSD project where all owners signed agreements to convey easements AFTER construction at no cost. Meeting requests out 4/30. Owners slow to respond.
Broadview Avenue GSR	\$33,814	\$12,907	Access 94% complete with 38% of Total Budget expended to date. One condemnation anticipated.
Dingle Creek Interceptor (formerly Ph II)	\$64,657	\$48,004	Access 100% complete with 74% of Total Budget expended to date. One condemnation filed with judgment pending. Construction moved out from 7/09, to 7/14, to 7/18 to 7/20.
Louisiana Avenue @ Bruceмонт SSR	\$13,906		Project plats received one year early. Working into current ROW work load. Just sent out intro letters.
Lower Smith Mill Creek Rehabilitation	\$469,553	\$469,553	Project 100% complete with 100% of Total Amended Budget expended. Ten condemnations were filed and all ten settled out of court, saving trial expenses.
Merrimon Avenue @ Stratford Road GSR	\$55,854	\$44,030	Access 100% complete with 79% of Total Budget expended to date. One condemnation filed with judgment pending.
Short Coxe @ Southside	\$165,652	\$163,632	Access 100% complete with 99% of Total Budget expended to date. Five condemnations/declaratory judgments filed. Four cases settled prior to trial; one judgement is pending.
Wendover Road GSR	\$17,656	\$4,721	Access 83% complete with 27% of Total Budget expended to date.
West French Broad Interceptor Extension	\$179,993	\$179,993	Access 100% complete with 100% of Total Amended Budget expended to date. One condemnation filed and judgement pending. This is a developer driven, interceptor extension project; i.e. new encumbrances to the land where no sewer existed previously. An independent appraiser determined market values in the \$40,000 to \$65,000 per acre range could be reasonably expected, depending on any number of factors unique to a given parcel. We began negotiations using a mid-range of \$55,000 per acre. We acquired easements from the developer for \$0; and from three other parcels for \$33,000, \$67,500 and \$67,500 per acre. The fifth parcel, owned by the Asheville Firefighters Association, was appraised at \$54,000 per acre; however, the AFA would not agree to grant an easement.

**Condemnation Statistics
July 1, 1991 - June 30, 2014**

Project	Easements	Actions	Settled Prior to Trial	Trial	Pending
14 Daniel Road	6				
25 Rosemary Road	1				
31 Homeway Road	2				
32 Coleman Avenue	1				
165 Old County Home Road	5				
320 Old Haw Creek	5				
43 Hamburg Drive	1				
Allied Health @ AB Tech	2				
Alta Avenue PRP	1				
Anvil Knitwear	3				
Azalea Avenue PSR	3				
Bankstown Road MSP	10				
Beaverdam Creek Interceptor	38	1	1		
Beaverdam Creek North Fork	36				
Best Western Sewer Rehabilitation	1				
Biltmore Forest Rehabilitation	7				
Biltmore Forest/Ram Branch	20	1		1	
Black Mountain 4"	1				
Black Mountain Chevrolet	2				
Black Mountain Ingles @ I-40 Rehab.	1				
Black Mountain Rehabilitation	30				
Bradley Branch Rehabilitation	10				
Broadway Avenue	6				
Braodway Avenue @ 5 Points	12	4	4		

Condemnation Statistics
July 1, 1991 - June 30, 2014

Project	Easements	Actions	Settled Prior to Trial	Trial	Pending
Brookcliff Drive PRP	6				
Brucemont Circle	3				
Brucemont Place Phase 2	32				
Bull Mountain Road Rehab.	2				
Campus Drive @ UNCA	1				
Canterbury Heights	1				
Carson Creek	4				
Central Avenue Rehabilitation	4				
Chatham Road Rehabilitation	1				
Charland Forest GSR	11				
COA 2005 Annexation Airport Road	5				
COA 2010 Annexation Rockwood Rd	2				
Clingman Avenue Rehabilitation	11				
Columbia Bible College	1				
Craven Street Access	2				
Crockett Road PRP	3	1	1		
Cub Road	8				
Daniel Road SS Replacement	7				
Delano Road 4" Main	2				
Delaware Avenue	9				
Depot Street @ Nasty Branch	2				
Depot Street Emergency Rehab.	2	1	1		
Dilling Avenue	1				
Dillingham Road 4" Main	1				
Dingle Creek @ Crowfields	3				

Condemnation Statistics
July 1, 1991 - June 30, 2014

Project	Easements	Actions	Settled Prior to Trial	Trial	Pending
Dingle Creek Interceptor, Ph. 2	10	1			1
Druid Drive	4				
Dula MSR	2				
Dunwell Avenue	13				
Earl Capps Hollow	21				
East Euclid Parkway	3				
East Kenilworth Lake	11	5	5		
Eastwood Avenue @ US 70	10				
Elk Mountain Road PSR	3				
Elk Park Drive PRP	14				
Emma Industrial Park	6				
Emma Road Sewer Replacement	2				
Emory Road Rehabilitation	1				
Evergreen Avenue	4	1	1		
Fair Oaks Road PRP	7	1	1		
Fair Oaks SD Rehabilitation	5				
Fairfax Avenue	11	3	3		
Fairway Drive	2				
Forest Hill Drive #2 PRP	7	2	2		
Forest Ridge Road	2				
Givens Estate	8				
Gladstone Road 4" Main	7				
Glen Bridge Road PRP	14				
Glen Bridge Road Rehabilitation	11	2	2		
Glenview Road Rehabilitation	9				

Condemnation Statistics
July 1, 1991 - June 30, 2014

Project	Easements	Actions	Settled Prior to Trial	Trial	Pending
Grassy Branch Rehabilitation	37	9	9		
Greeley Street PSR	3				
Grindstaff Road	2				
Grove Park Inn Rehabilitation	1				
Harmony Lane Rehabilitation	3				
Harnett Street	2				
Harrison Hill	1				
Heywood Road Rehabilitation	7	2	2		
Heywood Road Interceptor II	3				
Hickory Court SS Improvements	5				
Hi Alta Avenue	14	2	2		
Hilliard/Coxe Avenue	4				
Holiday Inn/Kinko	2				
Honey Drive	9				
Horizon Hill Road	2				
Howland Road Sewer Replacement	1				
Indiana Avenue	18				
Inglewood Road	9	1	1		
Johnston Boulevard	17				
Juvenile Evaluation Center	3				
Kanawha Drive	6				
Kensington Drive Relocation	3				
Kitazuma Road	1				
Lake Julian Interceptor	7	1	1		
Lake Julian Phase 3	1				
Lake Julian Phase 4	2				

**Condemnation Statistics
July 1, 1991 - June 30, 2014**

Project	Easements	Actions	Settled Prior to Trial	Trial	Pending
Lake Julian Pump Station	3				
Lake Louise Interceptor	34				
Lakey Gap Rehabilitation	2				
Laurel Road Phase 2	8				
Leicester hwy. Road Widening	5				
Lennox Street	8				
Liberty Street	17	2	2		
London Rd. Pilot Basin, 2b	43				
London Road AMP	12	2	2		
London Road Relocation	2				
Long Shoals Road	2				
Long Shoals Road PRP	16	3	3		
Lookout Road Rehabilitation	16	3	3		
Lower Ross Creek Interceptor	29	8	8		
Lower Smith Mill Creek Int.	39	10	10		
Macon Ave. @ Sunset Parkway	4				
Mardell Circle	3				
Martel Lane @ Penley Avenue	1				
Meadow Lark Road	1				
Merchant Street PRP	5				
Merrimon Avenue @ Ottari	4	1	1		
Merrimon Ave. @ Beaverdam Crk.	7				
Merrimon Ave. @ Reed Creek	41	5	5		
Merrimon Ave. @ Stratford	11	1			1
Merrimon Avenue Rehabilitation	4				

**Condemnation Statistics
July 1, 1991 - June 30, 2014**

Project	Easements	Actions	Settled Prior to Trial	Trial	Pending
Merrimon Ave./I-240 Ramp	1				
Middle Beaverdam Creek Ph. 1	13				
Middle Beaverdam Creek Ph. 2	3				
Middlebrook AMP	8				
Midland Drive AMP	3				
MMA Medical Facility-Leicester Hwy	2				
Monroe Place GSR	2				
Montford Ave. @ US 19/23	4				
Montreat Rehabilitation	33	1	1		
Moore Circle	7				
Morningside Drive	4				
Morris Street @ Talmadge	2				
Mosswood MHP	6				
Mountain Terrace 4" Main	4				
Mt. Vernon Place	8				
Nasty Branch Interceptor	4				
NCDOT @ Lowes	1				
Nesbitt Drive Rehabilitation	9				
North Fork @ KOA Emergency	2				
North Griffing Blvd. PSR	9				
North Griffing Blvd. 4" Main	4				
North Swannanoa Phase I	62	2	1	1	
North Swannanoa Phase II, 1	50	11	11		
North Swannanoa Phase II, 2	71	6	5	1	
North Swannanoa Phase II, 3	89	12	12		

**Condemnation Statistics
July 1, 1991 - June 30, 2014**

Project	Easements	Actions	Settled Prior to Trial	Trial	Pending
Northwood Road Rehabilitation	7				
Oaken Hill Place Rehabilitation	5				
Oakland Avenue Rehabilitation	3				
Old Haywood Road MSR	27	2	2		
Old Haywood Rd. @ Starnes Cove Rd	11				
Old Home @ Weaverville Hwy.	16	1	1		
Old Home Road PSR	1				
Old US 70 @ Grovemont Ave.	24				
Old US 70 @ Pine Circle	5				
Patton Mountain PSR	14				
Patton Ave. @ Parkwood Road	7				
Penley Avenue PSR	4				
Pine Meadows Drive	1				
Pinehurst Road Rehabilitation	6				
Pisgah View Rehabilitation	20	1	1		
Pressley Branch Rehabilitation	5				
Ragsdale Creek Repair Project	1				
Rash Road	4				
Reems Creek @ Balcrank	12				
Reems Creek Interceptor	19	1	1		
Reems Creek Master Plan	10				
Rice Branch Road	2				
Riceville Road Rehabilitation	5				
Riverside Cemetary	1				
Riverside/Westover Rehabilitation	1	1	1		

Condemnation Statistics
July 1, 1991 - June 30, 2014

Project	Easements	Actions	Settled Prior to Trial	Trial	Pending
Riverside/Westover Drive	2	2	2		
Roberts Street Rehabilitation	3				
Roberts Street @ Haywood Road	1				
Rockdale Avenue PRP	10				
Roebing Circle Rehabilitation	1				
Roger's Place Rehabilitation	2				
Rollingwood Road PSR	6				
Russell Avenue Rehabilitation	3				
Ruth Street Rehabilitation	1				
Sevier Street Rehabilitation	14				
Shadowlawn Drive Phase 1	28				
Shelburne Road Rehabilitation	20				
Sherwood Heights Rehabilitation	1				
Shiloh Road GSR	4				
Shiloh Road MSR	14				
Short Coxe @ Southside	8	5	4		1
Skyland Circle 4" Main	4				
Smith Mill Creek AMP	19				
South Asheville Cinema	1				
State Street MSR	2				
Stoner Avenue	15				
Sulphur Springs Creek Rehabilitation	24	3	2	1	
Sunset Drive @ Bee Tree Road	7				
Sunset Drive @ Old Toll Road	1				
Swannanoa River Road	19				

Condemnation Statistics
July 1, 1991 - June 30, 2014

Project	Easements	Actions	Settled Prior to Trial	Trial	Pending
Sweeten Creek @ Rock Hill Road	29				
Sweeten Creek Industrial Park	3				
Sweeten Creek MSR	5				
Sweeten Creek/Wilson Creek	63	1		1	
Swindale Street PSR	5	1	1		
Sycamore Terrace PRP	2				
Talmadge Street Rehabilitation	10				
Thompson Street No. 127	1				
Tomahawk Basin Phase III	31				
Tomahawk Branch	16	1	1		
Town Mountain Road 4" Main	3	1		1	
Trinity Chapel Road	4				
Trotter Place to Middlemont AMP	9	1	1		
Upper Ross Creek Rehabilitation	20				
US 70 @ Neil Price Ave. GSR	9				
US 70 @ Neil Price Ave. Phase 2	3				
US 70 @ Parkway GSR	3				
US 74	20	5	5		
VA Hospital	1				
View Street Rehabilitation	3				
Vine Street	2				
Volvo Construction Equipment	1				
Walker Street Rehabilitation	1				
Waters Road Rehabilitation	10	1	1		

Condemnation Statistics
July 1, 1991 - June 30, 2014

Project	Easements	Actions	Settled Prior to Trial	Trial	Pending
Weaverville Hwy. @ Hillcrest	4	1	1		
Weaverville Main Street Rehabilitatio	8				
Weaverville Rehabilitation	68	1	1		
Webster Street PSR	1				
West French Broad Interceptor	5	1			1
Wilmington Street MSR	9				
Willowbrook Road	1				
Winding Road PSR	3				
Woodland Road MSR	4				
Total	2174	135	125	6	4

Per Total Easements:

Actions Per Total Easements: 6.2%

Trials Per Total Easements: .28%

Per Total Actions Filed:

Settlements Per Total Actions: 92.6%

Trials Per Total Actions: 4.4%

Pending Per Total Actions: 2.9%

Closings by Agent

From 7/1/2013 to 6/30/2014

Acquistion Agent Martin/McGill

StatusDate	StatusComment	ProjectName	LastName
7/10/2013	Closed.	Shadowlawn Drive GSR	Raper
7/26/2013	Closed	Shadowlawn Drive GSR	Hannah
8/5/2013	Closed.	Shadowlawn Drive GSR	O'Kelley
8/14/2013	Closed.	Shadowlawn Drive GSR	Ray
8/14/2013	Closed.	Shadowlawn Drive GSR	Walters
9/4/2013	Closed.	Shadowlawn Drive GSR	Miller
9/11/2013	Closed.	Shadowlawn Drive GSR	Brigman
9/17/2013	Closed.	Shadowlawn Drive GSR	Gregory
9/17/2013	Closed.	Shadowlawn Drive GSR	Litchford
9/18/2013	Closed.	Shadowlawn Drive GSR	Pace
10/10/2013	Closed.	Broadview Avenue GSR	Donati
10/28/2013	Closed.	Shadowlawn Drive GSR	Justice
10/30/2013	Closed.	Broadview Avenue GSR	Edwards
11/7/2013	Closed Modification.	Shadowlawn Drive GSR	Raper
11/12/2013	Closed.	Shadowlawn Drive GSR	Lafferty
11/20/2013	Closed.	Shadowlawn Drive GSR	Pennypacker
12/13/2013	Closed.	Broadview Avenue GSR	Hipshire
12/19/2013	Closed.	Broadview Avenue GSR	Huff (aka Van Dyke)
12/20/2013	Closed. Consent Judgment.	Short Coxe @ Southside	White, et.al.
12/20/2013	Closed. Consent Judgment.	Short Coxe @ Southside	White, et. al.
1/2/2014	Closed.	Shadowlawn Drive GSR	Crain
1/2/2014	Closed.	Broadview Avenue GSR	Trantham
1/6/2014	Closed.	Broadview Avenue GSR	Mangkang
1/22/2014	Closed.	Broadview Avenue GSR	Wingo
2/19/2014	Closed to resolution - Ellen preparing SPDS.	Broadview Avenue GSR	Metcalf
3/3/2014	Closed.	Shadowlawn Drive GSR	Robinson
3/5/2014	Closed.	Broadview Avenue GSR	Clausen
3/7/2014	Closed. No comp due to storm repairs.	Broadview Avenue GSR	Robinson
3/13/2014	Closed.	Broadview Avenue GSR	Hinman
3/25/2014	Closed.	Broadview Avenue GSR	Metcalf
3/31/2014	Closed.	Broadview Avenue GSR	Wiseman

Total Closings by Agent:

31

Acquisition Agent MSD

StatusDate	StatusComment	ProjectName	LastName
7/22/2013	Closed.	Macon Ave @ Sunset Parkway GSR	Tsiros Family Trust
7/26/2013	Closed	Indiana Avenue GSR	Fishman
7/26/2013	Closed	Indiana Avenue GSR	Fishman
7/29/2013	Closed	Old Haywood Road @ Starnes Cove Road	Brazille
7/30/2013	Closed. Comp split 3 ways - #153888 \$187.50; #153886 \$375.00; #153887 \$187.50.	Emory Road GSR	Vrabel Living Trust
8/7/2013	Closed	Indiana Avenue GSR	Owen
8/13/2013	Closed. Modification of Easement	Macon Ave @ Sunset Parkway GSR	Scott
8/19/2013	Closed	Old Haywood Road @ Starnes Cove Road	Smith
8/19/2013	Closed	Old Haywood Road @ Starnes Cove Road	Whitmire
8/20/2013	Closed	Kanawha Drive GSR	Montreat House LLC
8/21/2013	Closed Modification Agreement.	Lake Julian W W Interceptor Ph 3	Progress Energy Carolinas Inc.
8/21/2013	Closed - modification and partial release	Lake Julian W W Interceptor Ph 4	Progress Energy Carolinas Inc.
8/22/2013	Closed	Old Haywood Road @ Starnes Cove Road	Moore
8/23/2013	Closed	Old Haywood Road @ Starnes Cove Road	Latham
8/26/2013	Closed. Revision added two parcels. One check for 4928, 5921 & 4994.	Indiana Avenue GSR	Smith
8/26/2013	Closed. One check for 4928, 5921 & 4994.	Indiana Avenue GSR	Smith
8/26/2013	Closed. One check for 4928, 5921 & 4994.	Indiana Avenue GSR	Smith
9/11/2013	Closed. One check for 3496 & 3724.	Indiana Avenue GSR	Creighton
9/11/2013	Closed. One check for 3496 & 3724.	Indiana Avenue GSR	Creighton
9/12/2013	Closed. One check for both pins.	Old Haywood Road @ Starnes Cove Road	Wells
9/12/2013	Closed. One check for both pins.	Old Haywood Road @ Starnes Cove Road	Wells
9/17/2013	Closed.	Indiana Avenue GSR	Schiesz
9/18/2013	Closed	Indiana Avenue GSR	Price, et. al.
9/20/2013	Closed.	Walker Street Sewer Rehabilitation	Cummings
9/23/2013	Closed.	Kanawha Drive GSR	T Squared Inc.
9/27/2013	Closed	Old Haywood Road @ Starnes Cove Road	Fox
10/9/2013	Closed	Sunset Drive @ Bee Tree Road GSR	Wright
10/10/2013	Closed	Sunset Drive @ Bee Tree Road GSR	Ballard
10/16/2013	Closed	Old Haywood Road @ Starnes Cove Road	Grady
10/17/2013	Closed	Sunset Drive @ Bee Tree Road GSR	Huggins Jr.
10/23/2013	Closed. Modification Agreement signed.	Indiana Avenue GSR	Efrid
10/23/2013	Closed	Sunset Drive @ Bee Tree Road GSR	Brown
11/4/2013	Closed	Sunset Drive @ Bee Tree Road GSR	White
11/8/2013	Closed	31 Homeway Road	Homeway Properties LLC
11/12/2013	Closed	Sunset Drive @ Bee Tree Road GSR	Carlson

11/13/2013	Closed.	31 Homeway Road	Deutsche Bank National Trust Company, Trust
11/19/2013	Closed	Shiloh Road Rehabilitation	Tucker
12/2/2013	Closed.	Allied Health @ AB Tech Sewer Rehabilitation	Housing Authority of the City of Asheville
12/3/2013	Closed	Shiloh Road Rehabilitation	Friendship Center, aka Friendship Lodge
12/4/2013	Closed	Sunset Drive @ Bee Tree Road GSR	God's Way Baptist Church Trustees
12/5/2013	Closed. One check for both pins.	Old Haywood Road @ Starnes Cove Road	Slagle
12/5/2013	Closed. One check for both pins.	Old Haywood Road @ Starnes Cove Road	Slagle
12/20/2013	Closed. Government; no compensation paid.	Old US 70 @ Pine Circle GSR	State of North Carolina
12/31/2013	Closed.	Shiloh Road Rehabilitation	Fate
2/3/2014	Closed. No Compensation for government entity.	Campus Drive @ UNCA GSR	State of North Carolina
2/10/2014	Closed	Thompson Street No. 127	Melvin Fitzgerald Farm LLC
2/10/2014	Closed Encroachment	Thompson Street No. 127	Melvin Fitzgerald Farm LLC
2/17/2014	Closed	City of Asheville 2005 Annexation Ph. I Airport Rd	Light of Life Ministries Inc.
2/24/2014	Closed	City of Asheville 2010 Annexation Rockwood Road	City of Asheville
2/24/2014	Closed	City of Asheville 2005 Annexation Ph. I Airport Rd	City of Asheville
3/4/2014	Closed.	Allied Health @ AB Tech Sewer Rehabilitation	Buncombe County
3/18/2014	Closed.	Shiloh Road Rehabilitation	Ray
3/19/2014	Closed Condemnation. Trial award of \$130,000; with interest = \$154,391.08.	Town Mountain Road 4" Main Rehabilitation	Fort
3/19/2014	Closed Condemnation.	Town Mountain Road 4" Main Rehabilitation	Fort
3/19/2014	Closed Condemnation.	Town Mountain Road 4" Main Rehabilitation	Fort
4/10/2014	Closed	Wendover Road GSR	Reisinger
4/15/2014	Closed	Wendover Road GSR	Meeker
4/22/2014	Closed	Wendover Road GSR	Chambers
4/24/2014	Closed. Modification Signed-No additional compensation paid.	Old US 70 @ Grovemont Avenue	Curtis
4/28/2014	Closed Modification. Additional check for 2317 & 3840.	Old US 70 @ Grovemont Avenue	Jones & Sons LLC
5/12/2014	Closed	Wendover Road GSR	Nabers
5/14/2014	Closed. Comp split 3 ways; #157255/\$220.75; #157256/\$220.75; #157254/\$441.50	Wendover Road GSR	Vrabel Living Trust
6/19/2014	Closed Modification of Easement. Constructed out of original esmt - no additional compensation.	West French Broad Interceptor Extension	Allison

Total Closings by Agent: 63

Grand Total Closings: 94

CAPITAL IMPROVEMENT PROGRAM

STATUS REPORT SUMMARY

August 12, 2014

PROJECT	CONTRACTOR	AWARD DATE	NOTICE TO PROCEED	ESTIMATED COMPLETION DATE	*CONTRACT AMOUNT	*COMPLETION STATUS (WORK)	COMMENTS
BROADVIEW AVENUE	Buckeye Bridge	7/16/2014	TBD	TBD	\$1,111,015.90	0%	No work has begun yet.
EAST STATE STREET @ WEST STREET	Davis Grading, Inc.	6/11/2014	7/14/2014	10/12/2014	\$403,640.00	5%	Construction has begun.
FOREST RIDGE ROAD	Dillard Excavating Company	2/19/2014	3/10/2014	8/31/2014	\$588,115.00	95%	Mainline construction is complete. Surface restoration remains to be done.
INDIANA AVENUE	Moorhead Construction	3/19/2014	4/1/2014	8/30/2014	\$413,313.20	95%	Mainline construction is complete. Surface restoration and paving remain to be done.
MACON AVENUE @ SUNSET PARKWAY	Terry Brothers	1/15/2014	3/1/2014	8/30/2014	\$757,688.00	95%	Paving and final restoration remains to be done.
MERRIMON AVENUE @ STRATFORD ROAD	Terry Brothers	9/18/2013	12/16/2013	11/31/14	\$885,849.00	80%	NCDOT has provided approval on tunneling method at Elkwood Road. Tunneling contractor is expected to begin August 18th. The 30" mainline across Newbridge Baptist Church property is complete. Remaining pipeline work must await completion of the tunnel.
MOUNT VERNON PLACE, PHASE 2	Terry Brothers	6/11/2014	7/14/2014	11/11/2014	\$542,675.00	0%	No work has begun yet.
OLD US 70 @ GROVEMONT AVENUE	Buckeye Construction	10/16/2013	11/18/2013	8/20/2014	\$729,740.90	95%	A driveway apron repair remains to be done. Final inspection scheduled for August 13th.
SYCAMORE TERRACE (PRP 34012)	Terry Brothers	1/15/2014	2/20/2014	7/14/2014	\$638,350.00	100%	Project complete and in close out.
WRF - ELECTRICAL IMPROVEMENTS	Haynes Electric	8/15/2012	9/10/2012	8/31/2014	\$1,061,900.00	100%	Project complete and in close out.
WRF - SLIDE GATE REPLACEMENT	NHM Constructors	9/18/2013	10/7/2013	7/15/2014	\$288,924.00	90%	29 of the proposed 31 gates are complete, tested, and in operation. The remaining two are being re-manufactured to accommodate site conditions which could not have been anticipated. Additional Gates in Basin One have been added to the Contractors scope. Proposal has been accepted.

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

Planning & Development Project Status Report

August 20, 2014

Project Name	Project Number	Work Location	Units	LF	Pre-Construction Conference Date	Comments
N. Bear Creek Road Subdivision	2005137	Asheville	20	127	7/11/2006	Complete - Waiting on final documents
Rock Hill Road Subdivision	2005153	Asheville	2	277	8/7/2006	Complete - Waiting on final documents
Black Mtn Annex: Avena Rd.	1999026	Black Mtn.	24	4,300	8/19/2010	Complete - Waiting on final documents
Black Mtn Annex: McCoy Cove	1992174	Black Mtn.	24	2,067	8/19/2010	Complete - Waiting on final documents
Black Mtn Annex: Blue Ridge Rd.	1992171	Black Mtn.	24	2,560	8/19/2010	Complete-Waiting on final documents
Biltmore Lake Block "J2"	2013128	Biltmore Forest	14	1,541	2/4/2014	Complete-Waiting on final documents
Momentum Health Adventure	2008097	Asheville	Comm.	184	8/19/2009	New ownership - project currently inactive
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
Goldmont St	2012087	Black Mtn.	6	91	1/11/2013	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
Asheville Market (Relocation)	2012139	Asheville	Comm.	280	9/18/2013	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
Hamburg Mountain Phase 3	2004086	Weaverville	13	844	11/10/2005	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
Ramble Block "D"	2013074	Biltmore Forest	36	4,783	12/11/2013	Complete-Waiting on final documents
Eagle's Landing	2010015	Asheville	25	472	10/22/2013	Complete-Waiting on final documents
Ridgefield Business Park	2004188	Asheville	18	758	2/16/2005	Complete-Waiting on final documents

Planning & Development Project Status Report

August 20, 2014

Project Name	Project Number	Work Location	Units	LF	Pre-Construction Conference Date	Comments
Waightstill Mountain PH-8	2006277	Arden	66	3,387	7/26/2007	testing / in foreclosure
Ingles	2007214	Black Mtn.	Comm.	594	3/4/2008	Ready for final inspection
Bartram's Walk	2007065	Asheville	100	10,077	7/28/2008	Punchlist pending - in bankruptcy
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	Punchlist pending
CVS-Acton Circle	2005163	Asheville	4	557	5/3/2006	Ready for final inspection
Bostic Place Sewer Relocation	2005102	Asheville	3	88	8/25/2005	Ready for final inspection
Kyfields	2003100	Weaverville	35	1,118	5/10/2004	Ready for final inspection
Reems Creek Cottages	2013066	Weaverville	17	483	11/15/2013	Ready for final inspection
Avalon	2013114	Asheville	192	1,343	6/2/2014	Pre-con held, ready for construction
Thoms Estate 3B & 4	2013052	Asheville	35	4,690	7/26/2013	Installing/Testing (75% Complete)
Carmel Ridge Apartments	2013018	Leicester	80	1,162	10/11/2013	Ready for final inspection
Palisades Apartments	2013024	Asheville	224	1,423	9/4/2013	Ready for testing
Crest Mountain Phase 3B	2013041	Woodfin	69	1,329	10/15/2013	Under Construction
Ingles - Smokey Park Highway	2013135	Asheville	Comm.	1,289	4/11/2014	Under Construction
The Aventine	2011015	Biltmore Forest	300	3,238	10/14/2013	Under constr./some air testing complete
New Belgium Relocation	2013143	Asheville	Comm.	380	8/12/2014	Pre-con held, ready for construction
Ansley at Roberts Lake	2013126	Buncombe Co.	296	2,534	6/2/2014	Under Construction
STF Precision	2013084	Buncombe Co.	Comm.	199	5/29/2014	Pre-con held, ready for construction
Hunt Hill Apartments	2013111	Asheville	180	1,729	3/5/2014	Testing
Hyde Park	2013058	Arden	65	3,062	12/3/2013	Pre-con held, ready for construction
Ventana	2014085	Woodfin	100	5,430	8/12/2014	Pre-con held, ready for construction
Upper Kentucky Improvements	2013085	Montreat	N/A	284	12/3/2013	Ready for final inspection
Isaac Dickson School Relocation	2013033	Asheville	School	504	1/13/2014	Under Construction - on hold
A.B. Tech Fernihurst Relocation	2014061	Asheville	School	697	4/8/2014	Under Construction - on hold
Locust Springs	2012107	Black Mountain	18	621	3/14/2014	Testing
Telco - Weaverville	2014046	Weaverville	Comm.	110	5/12/2014	Ready for testing
Haywood Village	2014064	Asheville	Mixed	276	6/19/2014	Pre-con held, ready for construction
Quail Hollow Ph. 2	2013062	Arden	15	1,302	6/11/2014	Under Construction
Cottages at Glen Oak	2013142	Avery Creek	45	1,569	4/9/2014	Pre-con held, ready for construction
Laurel Lane	2012121	Black Mountain	3	107	8/12/2014	Pre-con held, ready for construction
TOTAL			2,476	82,433		