



**Water, Sewer, and Solid Waste Committee**

**November 14, 2017**

**5:30 P.M.**

(Or immediately following Equipment Committee Session)

**City Hall – Room 326**

**Committee:** Chairman Mark Kinion; Council Member Sarah Marsh, Council Member Sarah Bunch, Council Member John LaTour

**Alternates:**

**Copy to:** Mayor Lioneld Jordan; Sondra Smith, Don Marr, Paul Becker, Susan Norton, Chris Brown, Lynn Hyke, CH2M HILL, Terry Gulley, Brian Pugh, Jeff Coles, Mark Rogers, Jim Beavers, Aaron Watkins

**From:** Tim Nyander, Utilities Director

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**CALL TO ORDER**

**ROLL CALL**

**OLD BUSINESS/UPDATES:**

**1. *Approval of the Water Master Plan Update, completed in August 2017.***

The Water Master Plan Update has been reviewed by the committee. Additionally, representatives from McGoodwin, Williams & Yates presented a summary of the Master Plan at the last Water, Sewer and Solid Waste Committee meeting.

The report details immediate and long- term recommendations for improvements to the City's water distribution system to meet the growing population and demands for the next 20 years.

**2. *Update on the Stormwater Feasibility Study***

The draft Request for Proposals document is complete, and will be discussed.

**3. *Approval of an Engineering Contract Amendment with McGoodwin, Williams and Yates, Inc. (MWY).***

The City currently has a contract with MGY for completing the 2017 Water Master Plan Update and designing the Dinsmore Trail water line replacement, in the amount of \$182,077. The requested amendment adds changes to the Dinsmore trail water main plans as required due to easement negotiations, the inclusion of Construction observation and management of the future construction, and adds additional assistance

to the City concerning pressure sustaining valves on the water transmission mains. The proposed amendment is based upon actual hours and a not-to-exceed price of \$74,016.00.

**STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR APPROVAL**

4. ***Allgeier, Martin and Associates, Inc. (AMA) Electrical Upgrade Design Contract.***  
Aging electrical equipment and changes in the electrical code necessitated a study of the electrical equipment and arc flash hazards for the West Side Waste Water Treatment Plant, the Noland Waste Water Treatment Plant and the major lift stations. A contract was awarded to AMA in October 2016 to perform the Study. The study confirmed that approximately \$2,000,000 of electrical work will need to be performed to upgrade the facilities. Allgeier, Martin and Associates, Inc. were selected for this task in a formal engineering selection committee meeting on July 26, 2017, to design the upgrades, prepare documentation and specifications and solicit bids for the project, review procurement activities, and provide on-site inspection and construction support for the project.

**STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR APPROVAL**

**NEW BUSINESS:**

5. ***CH2M Operation, Maintenance and Management Services Contract, Amendment #9.***  
This proposed contract with CH2M is to continue to (1) operate and maintain the Noland and West Side Water Resource Recovery Facilities (WRRFs); (2) operate and/or maintain 42 wastewater pump station sites; (3) administer the City's NPDES discharge, air, stormwater, and other related permits; (4) manage the City's biosolids disposal program; (5) manage the City's industrial pretreatment program; (6) support the SCADA (supervisory control and data acquisition system) network that monitor water and wastewater facilities; and (7) pursue operation economies, efficiencies, and permit compliance. The contract includes \$100,000 for refurbishment of a sand filter at the Noland Facility, and a cost of living increase.
6. ***Lake Sequoyah Road Construction Project.***  
Progress on the Lake Sequoyah dredging project currently stands at (1) design of the project, (2) the installation of the two bridges spanning a creek and a wetland area, (3) the dredging of the lake to fill approximately 800 feet of geo-tubes for possible berm material, (4) the purchase of 8-inch pipe for pumping the lake dredge to the site, and (5) clearing of vegetation in the future road area.  
The next phase of this project is the construction of the Lake Sequoyah Basin 3 Access Road, which will provide the access from the project to State Highway 16E near Van Hoose. This access road will go across the two previously installed access bridges. Public Bids were opened on October 26, 2017. Seven bids were received. The low bid of \$435,650.00 submitted by 81 Construction.

**STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR APPROVAL**

**7. *Lake Sequoyah Materials Testing Contract.***

This request is for the specified testing and survey of the soil and base of the access road, and the observation of the subgrade installation, which are required for the construction of the Lake Sequoyah dredging project. This construction contract is a separate Agenda request scheduled for the December 5, 2017 City Council meeting. Staff recommends approval of the testing and surveying services contract from McClelland Consulting Engineers (MCE) in the amount of \$15,200.00 for the materials testing.

**STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR APPROVAL**

**8. *City of Greenland Sewer Service Agreement***

Fayetteville has operated and maintained the wastewater collection system in Greenland since the system was installed in the mid-1970's. The current wastewater services agreement expires December 31, 2017. In the past, Greenland had expressed a willingness for Fayetteville to own the system, in addition to operating and maintaining it. Recently, Greenland has acquired financing to make improvements on their sewer collection system, and have started work on the design for upgrades. Given that, the City of Greenland will retain ownership of their sewer collection system, and is requesting to extend the sewer service contract for a period of 15 years, to reflect the original contract.

**STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR APPROVAL**

**INFORMATIONAL ITEMS**

**9. *Scope Discussion of Fayetteville East and Township Tank Project.***

On October 13, 2017 the City of Fayetteville conducted a formal Engineering Selection meeting, and selected McGoodwin, Williams & Yates to design the East Fayetteville and Township pressure plane improvements. The preliminary project scope includes one engineering contract with one or multiple construction contracts. The scope is based upon the 2017 Water Master Plan Update and includes the East Fayetteville Water System Improvements, Gulley and Goshen pressure planes; and the Township Tank and Ash Street Pump Station, Township pressure plane. A small but important component to be included with the East Fayetteville Water System Improvements is the rehabilitation or replacement of PSV's at the pressure planes to establish proper fire flows.

#### **10. Rolling Bay Doors.**

The Noland WRRF and the Biosolids Management Site have a combined total of approximately 15 rolling service doors. A number of these doors have been replaced in the last five years, but the remaining doors are nearly thirty years old. These old doors are frequently in need of repair and critical replacement parts are no longer available, including gears, sprockets, etc. They also pose a safety concern when parts break and doors become uncontrollable. Staff recommends acquiring formal sealed bids to replace two doors at the Noland facility – the influent pump station and blower building doors. The bid process is expected to be complete by the end of 2017 and anticipated to be less than \$45,000. After the bids are complete, they will be reviewed and submitted to the Water, Sewer & Solid Waste Committee and City Council for final approval.

#### **11. Noland Aeration Gearboxes**

The Noland WRRF uses a biological nutrient removal system to treat the City's wastewater. Each of the two basins uses a series of six mixers and eight large mechanical aerators to provide the mixing and necessary oxygen for the microorganisms to treat the wastewater. The existing mixers and aerators are more than 25 years old. In the past few years, seven units have been rebuilt but many are still in need of repair. Even though they have exceeded their life expectancy, rebuilding the gearboxes is significantly more cost effective than replacing them with new units and generally provides a similar life expectancy.

Seven units were recently sent to Automatic Engineering, manufacturer certified service facility, for disassembly and inspection. The units have been disassembled and inspected. Even though the repair quote is not yet finalized, it is expected to be no more than \$125,000.

According to Arkansas Procurement Law {R6:19-11-203, Subsection 14 (EE) "hidden or unknown damages."} Because it was necessary to have the repair facility disassemble the units to determine the extent of hidden and unknown damage to equipment already purchased, a bid waiver and formal sealed bidding is not necessary.

#### **12. CIPP Annual Contract**

The Utility completed the fifth and final renewal of the 2013 contract with Insituform Technologies, Inc. in August of this year and are currently preparing bid documents to advertise a new contract. We will again structure this contract to include the option to extend the contract for additional years, with City Council approval.

This contract supplements the work by our maintenance crews by lining existing sanitary sewer lines that need rehabilitation. In-house crews make point repairs on problem collection lines, but where the complete line has problems such as open, leaky joints, the contractor will reline the complete line. Our annual budget for this contract is approximately \$330,000.