CITY OF
FAYETTEVILLE
ARKANSAS

MEETING AGENDA

Water, Sewer, and Solid Waste Committee

12 October 2021

5:30 P.M.

(Or immediately following Equipment Committee Session)

This is a Virtual Meeting

Committee: Chairman Mark Kinion; Council Member Sloan Scroggin, Council Member Teresa Turk, Council Member D'Andre Jones,

Copy to: Mayor Lioneld Jordan, Paul Becker, Kara Paxton, Susan Norton, Chris Brown, Alan Pugh, Terry Gulley, Peter Nierengarten, Jeff Coles, Brian Pugh, Mark Rogers, Corey Granderson, Aaron Watkins, Greg Weeks, Monty Sedlak, Keith Macedo, Bruce Shackleford, Seth Pickens, Tim Lemons

From: Tim Nyander, Utilities Director

CALL TO ORDER

ROLL CALL

UPDATES

OLD BUSINESS:

NEW BUSINESS:

1. **Budget Adjustment to Increase Allocation for Purchasing Water in 2022 from Beaver Water District**

Water purchased at the end of September 2021 is up by 9.83% compared to water purchased at the end of September 2020. This increase in water usage is due to several factors but most notably is due to increases seen in customer water usage and water loss due to leaks. More specifically, customer water usage is currently at record levels and is up by 3%. Additionally, the number of leaks in the City's water distribution system have increased by 135% at the end of September 2021 compared to what was seen at the end of September 2020.

Staff recommends approval of a budget adjustment in the amount of $1,000,000.00 in the Purchased Water account due to increased water usage. Because most of the growth in water purchased from Beaver Water District directly corresponds to growth in revenue, there are additional revenues received in water and sewer sales. The $1,000,000 requested for Water Purchases will come from the recognition of $700,000 in water sales and $300,000 in sewer sales.

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

2. Washington Water Authority/City of Fayetteville Meter Read Agreement
There are approximately 35 City of Fayetteville sewer service accounts that are connected to Washington Water Authority for water service. Discussion will be on the proposed agreement for WWA to provide the City monthly water usage information so sewer service charges can be billed.

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

3. Amendment No. 8 with Environmental Consulting operations, Inc., for the Woolsey Wet Prairie Wetlands Mitigation Site Monitoring and management for 2022
Ordinance 5687, which was adopted on May 6, 2014, waived the requirement of formal competitive bidding, and authorized a contract with Environmental Consulting Operations, Inc. for the Woolsey wetlands mitigation site monitoring and management for 2014. Section 3.2 of the contract provides that the contract may be renewed for additional one-year terms upon mutual agreement of the City and Environmental Consulting Operations, Inc.

ECO, Inc. has been performing site management for 8 consecutive years.
The contract covers the following work tasks for 2022:

1. Project Administration and Management
2. Annual Ecological Restoration Monitoring
3. Annual Adaptive Management Strategy
4 Update Surplus Wetland Credit Tracking Ledger
5. Academic Research Project Guidance

Compensation for these activities has been negotiated for $65,500, an increase of 3.8% from the 2021 contract.

Funds are available in the West Side WWTP Contract Services account within the Water & Sewer fund.

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

4. Replacement of W-3 Pump No. 3 at Noland WWTP
The Noland Wastewater Treatment Facility W3 Pumping Station delivers treated effluent to the Noland WRRF and BMS Facility for process water. The pumping station utilizes four pumps, 2-100 HP, 1-150 HP and 1-300 HP pump. The water is used for washing, process, cleaning, and irrigation. In the past, the W3 water had been pumped through a large force main to another point of discharge. This discharge point has changed, and the 300 HP pump produces a discharge that is too great for the lines that service the Noland and BMS facilities. The existing pump would rupture the lines. Replacing the 300 HP pump with a 150 HP pump offers the ability to operate more reels for irrigation without damaging infrastructure. The additional pump also serves a redundancy for the W3 water system.

The City of Fayetteville requested sealed competitive bids on August 10, 2021, and Bertrem Products submitted the lowest and best bid for $38,528.45. The bid results are as follows:

Bertrem Products ……..…….. $38,528.45
Trillium Flow Technologies…….…… $39,615.00
Wastewater Solutions…….…….. $48,360.00
Instrument & Supply, Inc.……..… $58,620.00
Jack Tyler Engineering, Inc.……..… $61,340.00

Funds are available in the Plant Pumps and Equipment account within the Water & Sewer fund.

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

5. Extension of Sewer Service Outside the City Limits on N. Foxhunter Road

There is a 5-acre section of land at 1776 N. Foxhunter Road just outside the city limits and about a half of a mile from the Noland Plant, that a current customer wants to build a home on. There is an 18-inch diameter sewer main located in an easement on the property, which would be accessible for service with the construction of a new manhole. The Utility is in support of the request, as it is a viable option to installing a septic tank. According to the property owner, the onsite soils do not perc adequately for septic installation per county standards.

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

6. Pinnacle Ozone Solutions - Ozone Equipment Service Contract Renewal

The ozone disinfection system at the Noland WRRF includes specialized equipment that the manufacturer must provide. Pinnacle Ozone Solutions, LLC is the sole manufacturer and service provider of this specialized ozone generating equipment used at the treatment facility.

Ordinance 6307 passed on May 5, 2020, approved an initial one year contract with automatic renewals. Staff recommends approval to renew the annual service contract for 2021-2022 in the amount of $24,920.00.

Pinnacle will perform quarterly service visits, perform annual service items to the equipment, and perform bi-weekly remote monitoring of the system (26 total). Regular testing and inspections included in this agreement can be identify potential problems in advance. These issues can then be resolved based on a schedule that makes sense for the city rather than dealing with costly downtime if an emergency occurs. Routine maintenance on the ozone equipment also increases the longevity of the ozone system.

Funds are available in the Plant Pumps and Equipment account within the Water & Sewer fund.

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

7. Midland Industrial Services Reconciliation Change Order

Resolution 160-20 approved a construction contract for electrical high-voltage replacements and upgrades at the Noland Water Resource Recovery Facility with Midland Industrial Services, LLC in the amount of $1,036,491.85. Construction began in Summer 2020. Change Order No. 1 was approved (Res. 273-20) in the amount of $349,814.99 to account for additional underground high voltage cabling and termination end points that had not been identified during the engineering design phase but were necessary for function and safety of the overall project.

During construction, City Staff provided minor work change directives to the contractor to ensure the best end product would be delivered. These include increasing size of underground conduits from 3-in to 4-in to accommodate a neutral wire called out on the plans/specs. These portions of work had been identified as larger in the plant as-builts but upon exposure, needed to be upgraded to function with the overall design intent. More details can be seen in the contractor's narrative and the Engineer's cover letter. The cost increase for these items is $6,713.00.

Furthermore, the contractor did not utilize a portion of their confined space bid allowance, for a savings of $4,792.56. Therefore, the net change order needed to reconcile all quantities is $1,920.44.

Staff recommends approval of a change order with Midland Industrial Services, LLC in the amount of $1,920.44 for additional changes directed during construction as work change directives to the contractor. Since no remaining project contingency is in place, the increase in cost must go before the full City Council.

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

8. Hill Street Cost Share

Hill Billies, LLC is developing property at 388 S. Hill Ave. Two single family homes have been demolished to create approximately 17 multifamily units of infill housing. This project was reviewed and permitted through the Development Services division and was required to install a fire hydrant on the project site to meet fire code. A 6-inch waterline was identified in Hill Avenue per City GIS mapping, however, during excavation to install the hydrant, the line was discovered to be only a 4-inch line which cannot support the flow needed for a fire hydrant.

To support a hydrant an 8-inch waterline extension is necessary from W. Stone Street approximately 200 feet north of the site. The developer has requested the city pay 70% of the cost of this line, without detailed justification. City Staff recommends a 50/50 cost share to cover half the cost of this offsite improvement. This improvement would provide upgraded service to approximately 25 existing units in the vicinity.

The engineer's estimate for design and construction of this line is $42,000.00. If 50% is shared by the City, the City's cost would be $21,000.00.

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

9. Greenland/WWA Water Service
A developer is seeking water service for property located within the Fayetteville Water Service Boundary located within the Greenland City Limits at the north end of Lillie Lane (parcel 775-17793-250). The project consists of 50 to 100 single-family residential lots on approximately 50-acres. After meeting with the developer and assessing the City's water infrastructure, it was determined that the property's elevation was too high to service via direct connection to our water system. Not enough pressure would be available as our tanks sit at a similar elevation. To service this parcel, a costly pumping station would be necessary, and would add undesirable long-term operation and maintenance complexities to the City's system.

For these reasons, the developer approached our neighboring water service provider Washington Water Authority (WWA) who has the ability to provide water to these higher elevations without the need for additional pumping or storage. WWA is willing to service this parcel through a waterline extension from approximately one mile south of the parcel, likely at the developer's expense. For planning to proceed, the City of Fayetteville would need to relinquish part of our territory to WWA. An adjustment to the shared water service boundary of Fayetteville and WWA requires City Council action as well as review and approval by the Arkansas Natural Resources Commission.

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

10. American Rescue Plan Act (ARPA) Funding
ARPA funding is a $1.9 Trillion Economic Stimulus Package to respond to the COVID-19 emergency and bring back jobs**.** $350 billion of the funding is earmarked for state, local government, and tribes to, among other things, make necessary investments in water, sewer, or broadband infrastructure. Water and sewer infrastructure covers a broad range of items, including WWTP and drinking water system improvements, stormwater systems, water quality protection and non-point source pollution reduction.

The City of Fayetteville received $17,911,418, and the Utility has identified several projects that would qualify for ARPA funding.

A. There is a 2.5 mile section of 24" waterline between MLK & I-49 and S. School Ave. that was installed in the 60's, 70's and 80's and is located in very corrosive soil. Pipe corrosion is advanced, and many leaks are experienced at this point in time. A leak on this large section of pipe accounts for major water loss in the system. The first phase of this project is to conduct a remote-controlled inspection of the length of pipe to determine the condition of the pipe, the location of any valves and tie-ins, and to identify previous areas of repair. Additionally, Phase I will include designing the replacement strategy of the pipe. Phase II would be the replacement of the pipe using slip-lining as the method of repair. Total cost of this project is $4,000,000. This project helps reduce potable water loss & improve system resilience.

B. Water quality improvements to Lake Fayetteville would specifically provide health, ecosystem, social and economic benefits to the City of Fayetteville. The lake, as it currently exists, is a significant draw of both citizens and those from out of town. The City Council has expressed a desire to have the water quality improved to a point at which it could be rated for primary contact. While it remains to be determined if swimming is the ultimate desire of the City, certainly good water quality in the lake would

improve the popularity of the area as a destination for the City. This could include continued use for fishing, kayaking, canoeing, rowing and potentially paddle boarding. As people learn to appreciate and enjoy the outdoors it helps in a host of areas including health benefits. Total cost of this project is $200,000. This project helps improve water quality in Lake Fayetteville.

C. The City's Supervisory Control and Data Acquisition (SCADA) manages and monitors the water and wastewater systems. The SCADA system is a robust system including networking equipment, software, sensors, and programable logical controllers (PLC). SCADA is a mission critical system that requires is a critical cybersecurity asset to protect. Over the last 3 years the City has invested over a million dollars upgrading the majority SCADA's components to increase cyber preparedness, improve operational efficiency, and improve reporting capabilities. The City has not replaced the wireless components of SCADA yet due to lack of funding. This project would enable the city to replace the SCADA wireless equipment and improve cybersecurity and performance. Total cost of this project is $400,000. This project helps protect drinking water quality and improve wastewater collection treatment, system resilience & cyber security.

Information Only

11. Overview of WWTP Monthly Report
Discussion of August's Monthly WWTP Report

PRESENTATIONS

ATTACHMENTS
Washington Water Authority Agreement
ECO Inc. Amendment No. 8
Bid Tabulation – W3 Pump Noland WWTP
Map of Foxhunter Road Sewer Service Extension
Pinnacle Ozone Service Agreement
Midland Change Order
Hill St. Cost Share Calculations
Map – Greenland/WWA Service Proposal
Map of 24-inch Waterline
Lake Fayetteville Proposal
August WWTP Monthly Report

ADJOURN
Next Water, Sewer, Solid Waste Committee meets on
Tuesday, November 9, 2021, 5:30 p.m.