

## **CITY OF JOPLIN COUNCIL AGENDA ITEM**

### **ITEM**

Council Bill 2022-126

Agreement between the City of Joplin and Allgeier, Martin and Associates, Inc.

### **MEETING DATE**

June 6, 2022

### **ORIGINATING DEPT**

Public Works

### **ATTACHMENTS**

CB 2022-126 Ordinance; Agreement between the City of Joplin and Allgeier, Martin and Associates, Inc.;

### **REVIEWED BY**

Interim Director of Public Works – Dan Johnson, Director of Finance – Leslie Haase, City Attorney – Peter C. Edwards, City Manager – Nicholas Edwards

### **SUMMARY**

This Council Bill approves an agreement with Allgeier, Martin and Associates, Inc., for engineering consultation services for Turkey Creek Wastewater Treatment Facility South Sludge Thickener, Septage Receiving, and Oxidation Ditch Rotors in the not to exceed amount of One Hundred Seventeen Thousand and No/100 Dollars (\$117,000.00)

### **BACKGROUND**

The Turkey Creek Wastewater Treatment Facility was originally built in 1985 and has undergone major improvements over the years. The South Sludge Thickener, Septage Receiving, and Oxidation Ditch Rotors were installed as part of a plant expansion in 1996. This equipment has exceeded its 20-year design life and has deteriorated to an unreliable condition.

South Sludge Thickener:

This equipment serves the larger south digester complex. It has deteriorated over time due to the corrosive environment. The drive, main scrapper mechanism, skimmer arm, weir, baffle, and walkway need replaced.

Septage Receiving:

This is the only septage receiving location in the Joplin area. Several septage haulers empty corrosive grease, sewage, and other contaminants into it. The high volume of septage and corrosive nature of the waste has caused the equipment to deteriorate significantly. The drive, main scrapper mechanism, skimmer arm, weir, baffle, and walkway need replaced.

Oxidation Ditch Rotors:

The oxidation ditch provides biological treatment of the wastewater. The oxidation ditch brush rotors introduce air and thereby dissolved oxygen into the water. Dissolved oxygen in the water is required to support the bugs that eat the solids and treat the wastewater. Some of the aging rotors have quit working and are not able to be repaired. Replacing 2 of the 12 rotors with a single blower and retrievable diffusers will introduce air into the water in a more efficient manner while providing plant personnel an opportunity to work with this type of equipment. If the equipment proves reliable and efficient as anticipated, it could be used to replace the rest of the aging brush rotors in the oxidation ditches.

### **FUNDING SOURCE**

Wastewater fund

**RECOMMENDATION**

Staff recommends adoption of this Council Bill, approving an engineering consultation agreement on an emergency basis due to public health concerns associated with sanitary sewer overflows, and equipment replacement, being an ordinance relating to a public improvement, it is an emergency within the meaning of Section 2.12(6) of the HOME RULE CHARTER of the City of Joplin, Missouri and the Council hereby declares that this ordinance shall be in full force and effect from and after its passage.