City of **JOPLIN** City Council Agenda Item

Requested Council Meeting Date: July 3, 2017
Council Bill No. 2017-143

Item: Amendment No. 1 to Work Authorization with Burns & McDonnell Engineering Co, Inc., for Professional Engineering Consulting Services for NPDES Permit Renewal Support.

Originating Department: Public Works – Engineering

Attachments: 1) Amendment No. 1
2) Original Work Authorization No. BMC-OC-001
2) Council Bill No. 2017-143

Department Head: David K. Hertzberg
Finance Department: Leslie Haase
City Attorney: Peter C. Edwards
City Manager: Samuel L. Anselm

Recommended Action: Approval of Amendment No. 1 to Work Authorization No. BMC-OC-001 with Burns & McDonnell Engineering Co, Inc. in the not to exceed amount of $9,980.00 for Professional Engineering Consulting Services for National Pollutant Discharge Elimination System (NPDES) Permit Renewal Support.

Background: The Operating Permit for the Turkey Creek Wastewater Treatment Plant (WWTP), issued by the Missouri Department of Natural Resources (MDNR), is due for renewal. The focus of concern for the City and for MDNR is the allowable concentration limits of certain metals after the treated wastewater is discharged from the plant. Using nation-wide criteria established by the EPA, MDNR has proposed particularly strict limits in the forthcoming Operating Permit. In response, City staff is negotiating a change of concentration limits for both zinc and cadmium, due to the mining legacy in southwest Jasper County.

On April 26th of this current year, supported by a legal and technical team, City staff met with MDNR representatives in Jefferson City to discuss the metals limits. At that meeting, MDNR agreed to delay the issuance of the new Operating Permit for the Turkey Creek WWTP, pending results from an EPA-sanctioned Water Effect Ratio (WER) study. Ultimately, this study can

lead to the development of site-specific adjustment factors used to calculate tolerable concentration limits of zinc and cadmium in the treatment plant's discharge (effluent) into Turkey Creek. The adjustment factors will reflect the ambient background of the community.

Discussion: On March 20, 2017, Council approved the original Work Authorization with Burns and McDonnell for NPDES permit renewal support. This Amendment No. 1 to the Work Authorization with Burns and McDonnell represents the first stage of the WER study. Prior to moving forward with a comprehensive WER study for both metals, the Burns and McDonnell team has recommended an initial, low-cost test to confirm the approach. The results of the tests will guide the development of subsequent work toward establishing appropriate metals limits. MDNR must approve the technical approach to be followed and be satisfied with the Quality Assurance Project Plan (QAPP). City staff envisions a future Work Authorization for Burns and McDonnell to develop and implement these plans. The original Work Authorization's fee was used supporting the City of Joplin's April 26th meeting with MDNR.

Recommendation: City staff recommends that approval of Amendment No. 1 to Work Authorization BMC-OC-001 with Burns & McDonnell Engineering Co, Inc. for the not to exceed amount of $9,980.00 for Professional Engineering Consulting Services for NPDES Permit Renewal Support be approved on an emergency basis per Section 2.12 (6) of the Joplin City Charter.