



# City of Columbia

701 East Broadway, Columbia, Missouri 65201

Department Source: City Utilities - Sewer/Stormwater

To: City Council

From: City Manager & Staff

Council Meeting Date: March 18, 2024

Re: Authorizing an Engineering Services Agreement with HDR Engineering, Inc. to update the Integrated Management Plan for the Sanitary Sewer and Storm Water Utilities.

## Executive Summary

Staff has prepared for Council consideration a resolution authorizing the City Manager to execute an agreement with HDR Engineering, Inc. in an amount not to exceed \$161,946.00, to provide professional engineering services to update the Integrated Management Plan for the Sanitary Sewer and Storm Water Utilities.

## Discussion

The City adopted the original Wastewater and Stormwater Integrated Management Plan (IMP) in December 2018. The Missouri Department of Natural Resources incorporated the plan into the Missouri State Operating Permit for the wastewater treatment plant in July 2020. Implementation of the five year action plan contained within the IMP started at that time. Find attached a summary of the annual report that identifies actions the City has taken in the first four plus years of the five year action plan. It is necessary to submit the next five year action plan by December 2024 to MDNR with the permit application for the wastewater treatment plant. The scope of services for this engineering agreement involves updating the Integrated Management Plan (IMP) for the Sanitary Sewer and Storm Water Utilities and developing a new five year action plan. The tasks identified in the attached scope will meet City requirements and specific United States Environmental Protection Agency's (EPA) Integrated Planning Framework Elements and provide an updated five year action plan for implementation.

In 2011, the City received notification from the Missouri Department of Natural Resources of the potential need of an Administrative Order on Consent (AOC) to resolve sanitary sewer overflows and certain discharge violations. The City negotiated with Missouri Department of Natural Resources (MDNR) at that time to resolve the matter in a mutually agreeable way, including development of an Integrated Management Plan. The Sanitary Sewer Utility completed a \$67.1 million upgrade to the Wastewater Treatment Facility in 2014, completed a \$6.7 million upgrade to the Digester Complex in 2021, and renewed the plant operating permit in 2020. In 2011, the City became a party to the Hinkson Creek Collaborative Adaptive Management (CAM) process to address the Total Maximum Daily Load (TMDL) for water quality impairments based on macroinvertebrate sampling. These different, yet overlapping statutory and policy mandates combined with anticipated regulatory changes for both sanitary sewer and storm water are the drivers for development and continuation of an IMP.



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By identifying efficiencies and resolving competing requirements from separate wastewater and storm water programs, the IMP for Clean Water Act (CWA) issues helps the City meet regulatory obligations while continuing to address related challenges in operating and maintaining existing infrastructure investments. The IMP process allows the City to develop flexible long-term infrastructure plans that provide greater control of the magnitude and timing of regulatory uncertainties and prioritize sustainable and comprehensive solutions that improve water quality and provide multiple benefits to the community. An affordability analysis provides critical information to develop a long-term plan that allows the Utilities to maintain affordable user fees and leverage expenses to meeting multiple goals. The format of the update to the IMP and five year action plan will continue to be based on the EPA June 2012 Integrated Municipal Stormwater and Wastewater Planning Approach Framework.

HDR has been selected for this project in accordance with the City's professional consultant procurement guidelines based upon their understanding of the project requirements and their experience with the previous development of the IMP. The total engineering contract not to exceed amount of \$161,946.00 is within the usual and customary guidelines for this type of project.

## Fiscal Impact

Short-Term Impact: The engineering contract is for a not-to-exceed amount of \$161,946.00; 90% paid from the Sewer Utility Fund and 10% paid from the Storm Water Utility Fund.  
Long-Term Impact: By developing and implementing a long-term plan, the City can maintain affordable user fees and more reasonably plan for future infrastructure and regulatory costs.

## Strategic & Comprehensive Plan Impact

### Strategic Plan Impacts:

Primary Impact: Reliable and Sustainable Infrastructure, Secondary Impact: Organizational Excellence, Tertiary Impact: Not Applicable

### Comprehensive Plan Impacts:

Primary Impact: Environmental Management, Secondary Impact: Infrastructure, Tertiary Impact: Livable & Sustainable Communities

## Legislative History

Date	Action
02/01/2021	REP12-21 Wastewater and Stormwater Integrated Management Plan 5-Year Action Plan Annual Summary.
12/03/2018	R198-18 Adopting the Columbia Wastewater and Stormwater Integrated Management Plan Final Report.



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12/03/2018	PH47-18 Consider adoption of the Columbia Wastewater and Stormwater Integrated Management Plan Final Report.
11/05/2018	R166-18 Setting a public hearing: consider adoption of the Columbia Wastewater and Stormwater Integrated Management Plan Final Report.
12/19/2016	B331-16 Authorizing a memorandum of understanding with the Missouri Department of Natural Resources relating to development of an integrated management plan for City of Columbia wastewater and stormwater systems; authorizing approval of an Abatement Order On Consent with the Missouri Department of Natural Resources.
02/01/2016	B18-16 Authorizing an agreement for engineering services with HDR Engineering, Inc. for development of an Integrated Management Plan (IMP) for the City's sanitary sewer and storm water utilities; appropriating funds.

## Suggested Council Action

Approve the resolution authorizing the City Manager to execute this agreement.