



Department Source: City Utilities - Sewer/Stormwater

To: City Council

From: City Manager & Staff

Council Meeting Date: November 18, 2024

Re: Authorizing an intergovernmental cooperative agreement with Boone County, Missouri and The Curators of the University of Missouri for a water quality analysis project as it relates to the Hinkson Creek collaborative adaptive management (CAM).

## Executive Summary

Staff has prepared for Council consideration an ordinance that will authorize the City Manager to execute an Intergovernmental Cooperative Agreement between the City of Columbia, the County of Boone, and the Curators of the University of Missouri for a Hinkson Creek Collaborative Adaptive Management (CAM) Cost Sharing Study: Hinkson Creek Surface Water Monitoring Sampling, and Chloride Regression Model.

## Discussion

On April 1, 2013, Council authorized an Intergovernmental Cooperative Agreement between the City of Columbia, the County of Boone, and the Curators of the University of Missouri (MS4 Partners) with regard to how the Parties will contribute to projects that are initiated in the CAM process. The agreement is Exhibit A of Attachment A to the Ordinance. In that agreement, it states that for research, study or monitoring-type projects, the three entities will each be responsible for one-third of the project cost. For each project, the MS4 Partners shall agree in writing to the project.

At the CAM Stakeholders meeting on September 26, 2024, the Stakeholders voted to support the MS4 Partners moving forward with the "Hinkson Creek surface water monitoring, sampling, and chloride regression model development." The scope of this study is detailed in Exhibit B of Attachment A to the Ordinance. This study will monitor surface water quality and develop a chloride regression model to assess environmental impacts, informing future water management efforts in Columbia. Sampling and analysis will occur over a designated timeline, with initial model development expected within the first quarter, followed by data collection throughout the subsequent year.

Previous samples indicate a higher-than-normal level of chloride concentrations in Hinkson Creek. This project will build upon previous efforts by expanding the scope and depth of data collection specifically around chloride levels, enabling the development of a predictive model to assess long-term impacts on surface water. This regression model leverages historical data and adds precision to understand seasonal and environmental factors, including chloride variations. The proposed agreement fits with the framework of the April 2013 Intergovernmental Cooperation Agreement with the MS4 partners for sharing the costs for CAM-related studies.

The total budget for the study is \$89,565, with each of the parties' total proportionate one-third costs not exceeding \$29,855. The City portion of this study will be paid for by Storm Water Utility Funds.



## Fiscal Impact

Short-Term Impact: \$29,855

Long-Term Impact: None

## 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: Inter-Governmental Cooperation, Tertiary Impact: Not Applicable

## Legislative History

Date	Action
12/04/2023	REP72-23 Hinkson Creek Collaborative Adaptive Management (CAM) Progress Reports 2021 and 2022 from the CAM Stakeholder Committee.
08/07/2023	B168-23 Authorizing an intergovernmental cooperative agreement with Boone County, Missouri and The Curators of the University of Missouri for a water quality monitoring project as it relates to the Hinkson Creek collaborative adaptive management (CAM) implementation process.
06/06/2022	REP 43-22 Collaborative Adaptive Management (CAM) Progress Report 2019-2020 from the CAM Stakeholder Committee.
03/07/2022	REP21-22 Appointment of Stakeholders to the Hinkson Creek Collaborative Adaptive Management Stakeholder Committee.
10/18/2021	B324-21 Authorizing an intergovernmental cooperative agreement with Boone County, Missouri and the Curators of the University of Missouri for a chemical analysis sampling project as it relates to the Hinkson Creek collaborative adaptive management (CAM) implementation process
09/07/2021	REP66-21 Appointment of Stakeholders to the Hinkson Creek Collaborative Adaptive Management Stakeholder Committee.
08/17/2020	REP46-20 Collaborative Adaptive Management (CAM) Progress Report 2017-2018 from the CAM Stakeholder Committee.
05/04/2020	B98-20 Authorizing an intergovernmental cooperative agreement with Boone County, Missouri and The Curators of the University of Missouri for a chemical analysis project as it relates to the Hinkson Creek collaborative adaptive management (CAM) implementation process; amending the FY 2020 Annual Budget by appropriating funds.
04/20/2020	B83-20 Authorizing an intergovernmental cooperative agreement with Boone County, Missouri and The Curators of the University of Missouri for a synoptic sampling project as it relates to the Hinkson



# City of Columbia

701 East Broadway, Columbia, Missouri 65201

01/07/2019	Creek collaborative adaptive management (CAM) implementation process; amending the FY 2020 Annual Budget by appropriating funds. B322-18 Authorizing an intergovernmental cooperative agreement with the County of Boone and The Curators of the University of Missouri for an aquatic macroinvertebrate data mining project as it relates to the Hinkson Creek collaborative adaptive management (CAM) implementation process; appropriating funds.
12/18/2017	R182-17 Appointing the City Manager, or the City Manager's designee, as an alternate voting member of the Hinkson Creek Collaborative Adaptive Management Stakeholder Committee.
11/06/2017	B316-17 Authorizing construction of the El Chaparral riparian restoration project on a City-owned tract located along the south fork of the Grindstone Creek; authorizing the Purchasing Division to call for bids or contract for a portion of the work.
08/21/2017	PH28-17 Proposed construction of the El Chaparral riparian restoration project on a City-owned tract located along the south fork of the Grindstone Creek.
07/17/2017	R91-17 Setting a public hearing: proposed construction of the El Chaparral riparian restoration project on a City-owned tract located along the south fork of the Grindstone Creek.
11/03/2015	Ord 22630 Authorizing an Intergovernmental Cooperative Agreement Partial Performance Acknowledgement of Hinkson Creek Physical Habitat Assessment as it relates to the collaborative adaptive management implementation (CAM) process to address the total maximum daily load (TMDL) for Hinkson Creek
08/05/2014	Res 134-14 Transferring funds for the Collaborative Adaptive Management (CAM) - Hubbart assessment project and for construction of the West Broadway sewer project Ord 21646
04/02/2013	Authorizing an intergovernmental cooperation agreement with Boone County and the University of Missouri as it relates to collaborative adaptive management implementation process to address total maximum daily load for Hinkson Creek
11/05/2012	Res 205-12 Temporary Appointment to Action Team
04/17/2012	Ord 21291 Authorizing a collaborative adaptive management implementation schedule and agreement for Hinkson Creek TMDL

## Suggested Council Action

Approval of the ordinance.