



Department Source: City Utilities - Sewer/Stormwater

To: City Council

From: City Manager & Staff

Council Meeting Date: February 1, 2021

Re: Wastewater and Stormwater Integrated Management Plan 5-year action plan annual summary

Executive Summary

The Columbia Wastewater and Stormwater Integrated Management Plan includes a 5-year action plan. Staff prepares an annual report to the Missouri Department of Natural Resources summarizing activities and actions taken during the last fiscal year to support the 5-year action plan.

Discussion

The Columbia Wastewater and Stormwater Integrated Management Plan (IMP), dated September 28, 2018, was adopted by City Council on December 3, 2018, and acknowledged by the Missouri Department of Natural Resources (MDNR) on March 21, 2019. The IMP outlines anticipated schedules for following long-range management actions and investments with regard to wastewater treatment improvements, wastewater collection system capacity, renewal and maintenance, and storm water management. The IMP was used by MDNR when finalizing the City's recent NPDES (National Pollutant Discharge Elimination System) permits for the wastewater plant and the MS4 (Municipal Separate Storm Sewer System). Both permits require that the City provide an annual report to MDNR on the status of items in the 5-year action plan. Find the FY 2020 report attached for City Council information.

Highlights of the annual report include:

- completing early measures to address peak flow capacity at the wastewater treatment plant
- rehabilitating the biosolids digester facilities at the wastewater treatment plant
- continuing sewer and storm water system renewal with rehabilitation projects
- working towards securing regular annual funding of sewer rehabilitation projects
- continuing sewer system maintenance by CCTV inspection, cleaning, replacement and repairs
- continuing storm water system maintenance by CCTV inspection, cleaning, replacement and repairs
- completing construction of multiple Private Common Collector Elimination sewer improvement projects
- implementing, improving and funding cost reimbursement projects for sewer building backups and private sewer inflow and infiltration reduction
- started developing wastewater collection system model and hired a Sewer Technician to assist with development and maintenance of the model



- hired an MS4 Technician to support the MS4 program with outfall inspections and illicit discharge detection and elimination (IDDE) efforts
- continued funding of the Hinkson Creek USGS flow gage and Collaborative Adaptive Management studies and projects

Future actions for the IMP include:

- hiring a consultant to complete a Cost of Service study for both Sewer and Storm Water Utilities
- completion of multiple Private Common Collector Elimination sewer projects,
- completion of other sewer and storm water capital improvement projects
- hiring an engineering consultant firm to calibrate and finalize the wastewater collection system model
- executing a multi-year contract for sewer and storm water rehabilitation and cleaning services with the successful bidder
- accept public input and finalize the MS4 Permit Storm Water Management Plan (SWMP)

More than \$25 million has been spent to date towards accomplishing the goals of the IMP. Much of that is capital expense and does not include operational expenses for cleaning, inspection, minor replacement and repair of existing infrastructure.

Fiscal Impact

Short-Term Impact: N/A

Long-Term Impact: N/A

Strategic & Comprehensive Plan Impact

[Strategic Plan Impacts:](#)

Primary Impact: Infrastructure, Secondary Impact: Operational Excellence, Tertiary Impact: Not Applicable

[Comprehensive Plan Impacts:](#)

Primary Impact: Environmental Management, Secondary Impact: Infrastructure, Tertiary Impact: Not Applicable

Legislative History

Date	Action
12/03/2018	R198-18 Adopting the Columbia Wastewater and Stormwater Integrated Management Plan Final Report
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 Columbia



City of Columbia

701 East Broadway, Columbia, Missouri 65201

08/07/2017	Wastewater and Stormwater Integrated Management Plan Final Report TMP-5384 City Council Work Session Wastewater/Stormwater Integrated Presentation
12/19/2016	Management Plan Update B331-16 Authorizing a memorandum of understanding with the Missouri Department of Natural Resources relating to the 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.
01/19/2016	B18-16 Authorizing an agreement for engineering services with HDR Engineering, Inc. for development of an Integrated Management Plan (IMP)
11/21/2011	Abatement Order on Consent Presentation at the November 21, 2011 Pre-Council Meeting

Suggested Council Action

See attached Report. For information only.