

ATTACHMENT 1
Draft One Water 2050 Plan



Public Works Commission Agenda Report

ITEM NO. 6

DATE: February 10, 2022
FROM: H. Ted Gerber, Public Works Director
SUBJECT: Adoption of the One Water 2050 Plan & Sewer System Management Plan

Recommendation

It is recommended that the Public Works Commission make a recommendation to City Council to adopt South Pasadena's first Integrated Water and Wastewater Resources Management Plan (IWRMP), also known as the One Water 2050 Plan, and the 2021 Sewer System Management Plan (SSMP).

Background

The City operates existing utility services including potable water, sewer collection, and stormwater drainage systems. The water distribution system consists of approximately 80 miles of transmission and distribution water pipelines, four groundwater wells, five storage reservoirs, two elevated tanks, and six booster-pumping stations, which provide water service to approximately 6,200 connections in five pressure zones. The sewer collection system consists of approximately 58 miles of sewer pipelines and two sewer lift stations. The stormwater drainage system consists of a network of street gutters, catch basins, and drainage pipes. The IWRMP Plan includes an integrated master plan for all these systems, and a potential recycled water system, to completely characterize all water resources, and identify short- and long-term water operation, maintenance, and capital improvement programs. This integrated plan will allow the City to more efficiently and strategically manage its water assets with respect to future and existing utility demand. The SSMP provides a plan and schedule to properly manage, operate, and maintain all parts of the City's sanitary sewer system – preventing potential sanitary sewer overflows (SSOs), or mitigating the impact of SSOs that occur.

Discussion/Analysis

On December 18, 2019, the City Council awarded a contract to Carollo Engineers, Inc. (Carollo) to prepare the IWRMP and the SSMP. Carollo's work and the City's work on the plans commenced in 2020 and concluded at the end of 2021. The IWRMP includes:

- A detailed condition assessment of existing water and sewer infrastructure.
- Identification of demand, capacity, and infrastructure needs for the next 30 years.
- Operations and maintenance (O&M) planning for water, sewer, and stormwater systems.
- A feasibility analysis for a potential City recycled water system.
- A 30-year Capital Improvement Program (CIP) for the water, sewer, and stormwater systems.
- Potential funding sources for O&M and CIP planning.

The SSMP is a State Water Board required document, which the City must update every five (5) years.

With the finalization of the IWWRMP, the City has developed projections for the near-term (year 2025) and long-term (year 2050) potable water demands, wastewater flows, and potential recycled water demands, and defined planning and evaluation criteria for these systems. In addition, the City can now utilize updated water, wastewater, and stormwater Geographic Information Systems (GIS) to accurately reflect existing conditions, and updated hydraulic models for the City's potable water and wastewater collection systems to identify system deficiencies and improvement needs. The City will also utilize the IWWRMP's recommended improvements to water, wastewater, and stormwater system infrastructure in the 2022-2027 CIP, to be adopted this year during the annual budget cycle.

Fiscal Impact

There is no fiscal impact resulting from the adoption of the IWWRMP, however, the plan recommends approximately \$230 million of infrastructure improvements over a 30-year period to the water, wastewater, and stormwater systems.

Public Notification of Agenda Item

The public was made aware that this item was to be considered this evening by virtue of its inclusion on the legally publicly noticed agenda, posting of the same agenda and reports on the City's website.

Attachments: One Water 2050 Plan (Draft)
Sewer System Management Plan (Draft)