

PROJECT INFORMATIONProject Name: **Wastewater Treatment Master Plan Improvements**Project #: **SWR149**Year First Shown in CIP: **2009**Funding Status: **Funded**Is this a Budget Amendment? ☒Amendment Date: **08/24/2021****PROJECT DESCRIPTION:**

Improvements, additions and rehabilitation of the wastewater treatment plant to meet water quality standards, extend the life of the plant, improve operations and reduce operating costs. The majority of the work identified in 2019-2023 is required to meet more stringent water quality standards for phosphorus and nitrogen. Regulation 85 limits have been adopted by the State and will be included in the City's next permit in 2018, which will include a compliance schedule for meeting the limits. Estimates are shown for planning (\$100,000 in 2019), design (\$3,000,000 in 2021) and construction (\$30,000,000 in 2023) to meet Regulation 85 limits for total inorganic nitrogen and total phosphorus. If approved by the voters, the majority of the construction would be funded by a future bond. Year 2019 also includes \$450,000 for renewal of ancillary infrastructure including the primary clarifier sludge and scum pumps. Year 2020 includes funding for site door replacements and \$300,000 for SCADA system upgrades. Year 2021 also shows improvements for several roofs and HVAC systems, digester improvements and UV system renewal (\$1,500,000). Funding for renewal of electrical infrastructure and gravity thickener mechanisms (\$2,000,000) are shown in 2022. Replacement of buried piping systems in the older area of the plant will occur in 2023 (\$1,500,000).

PROJECT JUSTIFICATION:

The wastewater treatment plant is comprised of many different treatment processes that have been built at different times over the last 60 years. More stringent water quality standards have been enacted by the state for total inorganic nitrogen and total phosphorus and are included in the City's new permit in 2018. New or modified treatment processes will be required to meet the new standards. In addition, many portions of the plant are aging and need replacement or rehabilitation to maintain their value and extend their useful life. There will be an opportunity to add features that reduce energy usage and operational cost during the upgrades and improvements.

The projects at the wastewater treatment plant support the following Envision Longmont Goals: Guiding Principle #1 - Invest in existing infrastructure to meet the changing needs of the community; and Guiding Principle #5 - Protect and conserve Longmont's natural resources and environment.

SUPPORTING ENVISION LONGMONT GUIDING PRINCIPLES AND FOCUS AREA ALIGNMENT:

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> GP1: Livable Centers, Corridors & Neighborhoods | <input type="checkbox"/> GP2: Complete, Balanced & Connected Transp Sys | <input type="checkbox"/> GP3: Housing, Services, Amenities & Opt for All |
| <input type="checkbox"/> GP4: A Safe, Healthy, and Adaptable Community | <input checked="" type="checkbox"/> GP5: Responsible Stewardship of Our Resources | <input type="checkbox"/> GP6: Job Growth & Economic Vitality-Innov & Col |
| <input checked="" type="checkbox"/> Sugar Mill / Highway 119 Gateway | <input type="checkbox"/> St. Vrain Creek Corridor | <input type="checkbox"/> Hover Street Corridor |
| <input type="checkbox"/> Midtown / North Main | <input type="checkbox"/> Area of Change | <input type="checkbox"/> Downtown / Central Business District (CBD) |

Other Related Plans:

Related CIP Projects:

PROJECT COSTS:

	2021	2022	2023	2024	2025	2021-2025 TOTAL
	500,000	0	0	0	0	500,000

SOURCE OF FUNDS:

Funded	2021	2022	2023	2024	2025	2021-2025 TOTAL
Sewer - Operating	500,000	0	0	0	0	500,000

LOCATION MAP: