Program 8074 – Empire WRRF Solids Improvements





Aerial view of Empire Water Resource Recovery Facility (WRRF)

Description

This program provides funding for planning and implementation of improvements to the wastewater solids processing facilities at the Empire Water Resource Recovery Facility (WRRF).

This program will end upon final completion of 807401 Empire WRRF Solids Improvements Phase II; project substantial completion is anticipated to be in December 2025. This program is anticipated to close in 2026.

Purpose and justification

Projects in this program address capacity constraints and improve performance for wastewater solids processing at the Empire WRRF.

Program location

The active projects within this program are in Council District: 16

Active projects in program

Project Number	Project Title
807401	Empire WRRF Solids Improvements Phase II

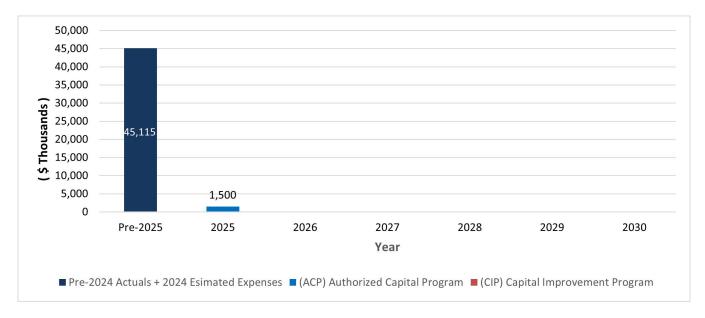
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Environmental Services 2025 through 2030 Capital Program

- Authorized Capital Program (ACP): \$46,614,967
- Capital Improvement Plan (CIP): \$0

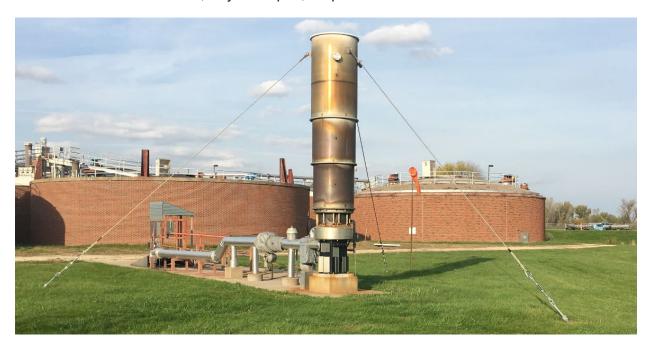
Estimated program cash flow from 2025 through 2030

Note: the ACP is the total amount of all past and present authorizations including pre-2025 expenses.



Program family 8074 Project #807401

Project location: Council District #16, City of Empire, Empire WRRF



Biogas flare and Digesters 4 and 5 at Empire WRRF

Project type

Facility

Objectives

Asset Preservation, Quality Improvements

Scope

Modify existing digesters to increase solids processing capacity. Add advanced biogas treatment to remove hydrogen sulfide and siloxanes from biogas prior to use as fuel in a combined heat and power (CHP) engine generator. CHP will generate heat and electricity for onsite use.

Project need

Solids treatment capacity at the Empire Facility must be increased to accommodate future growth in the service area. CHP will generate approximately one third of the plant's heat and power demand utilizing biogas generated onsite as fuel.

Project schedule:







Planning: 2011 through 2013 Design: 2019 through 2020 Construction: 2021 through 2025

Financial analysis

 2025 cash flow:
 \$1,000,000

 Current ACP:
 \$17,902,000

 2025 through 2030 cash flow:
 \$1,000,000

 Total project cost:
 \$17,902,000