

Capital Improvement Project | Cooper City

# City of Cooper City Wastewater Treatment Plant New Headworks Facility Plan Presentation

Public Meeting Date: June 9, 2026



Florida Department of Environmental Protection Clean Water  
State Revolving Fund (CWSRF) Project No. WW06251

# WWTP New Headworks Facility Plan

## City Commission Approval

Resolution 26-24 approved, authorizing the City Manager to pursue the CWSRF Loan Program to assist in funding the WWTP New Headworks Facility Project.

## CWSRF Facility Plan Requirement

A Facility Plan must be completed to verify planning requirements of rules 62-503 and 62-552, F.A.C. have been met. To satisfy the requirements of the CWSRF Program, adoption of a Facility Plan is necessary.

## Public Participation Requirement

A public meeting is required to present the Project alternatives, capital cost, financial impact, and Facility Plan components. This meeting allows the public to participate in evaluating the project alternatives.

# Background

**5,337**

Acres served

**124+**

Miles of gravity/ force mains

**2,201**

Manholes

**83**

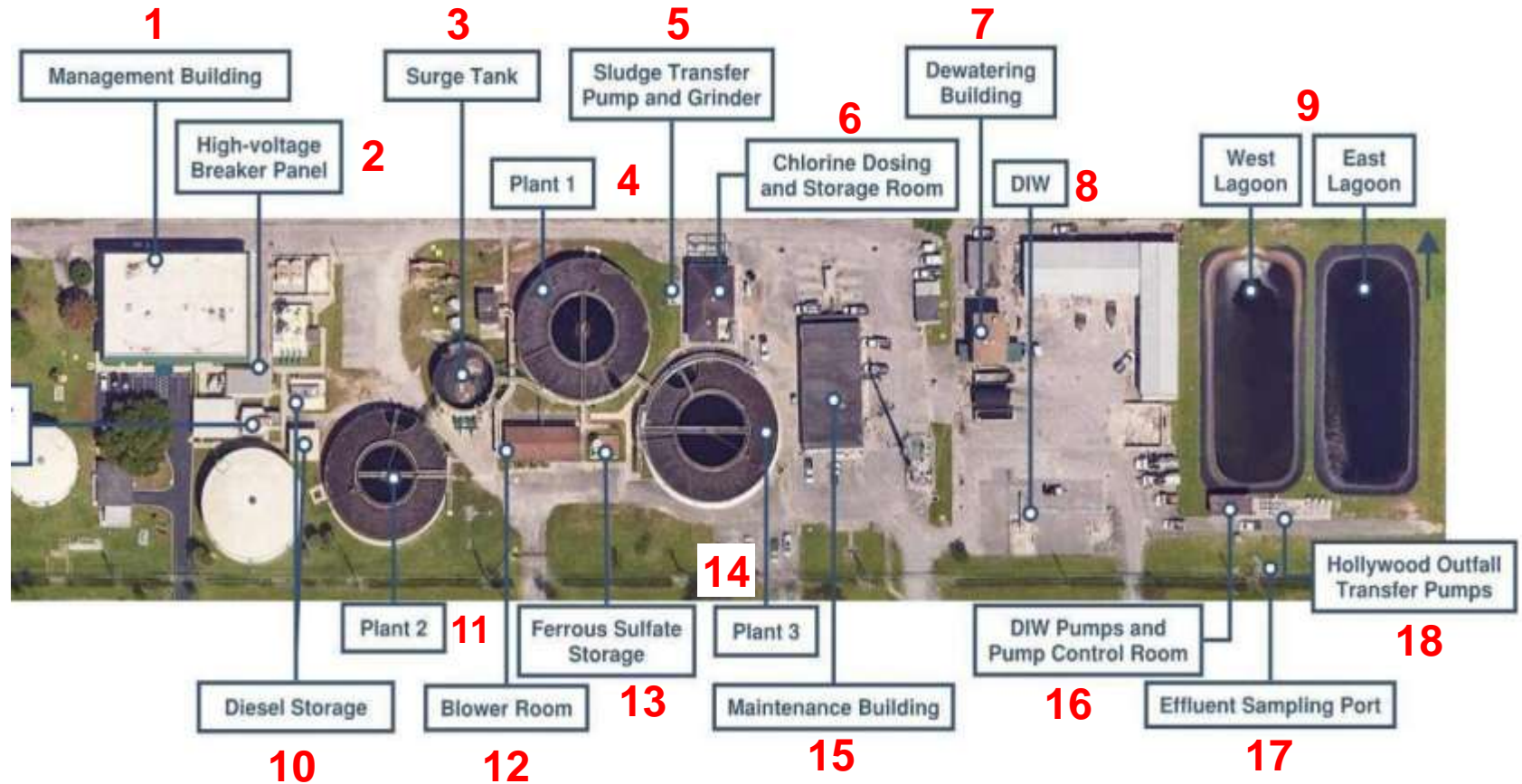
Total lift stations

## Current plant configuration

Original late-1970s WWTP with three small package plants.

## Need

Upgrade functionality, efficiency and treatment quality.



# Existing Conditions

## Manual screening

$\frac{3}{4}$ -inch bar screen before the surge tank;  
each package plant has a  $\frac{1}{2}$ -inch screen.

## Labor-intensive disposal

Screenings are collected multiple times per  
day and sent to on-site dumpsters.

## Odor Concerns

Debris and grit continue to increase wear and  
maintenance downstream, causing build up  
of odor causing materials.

The process is inefficient and not aligned with  
current best practice.



# 3 Alternatives

## Evaluation of Preliminary Treatment Improvement Options

### Alternative 1 No Action

- Manual screening remains
- Maintenance & odor issues continue
- No long-term operational improvements

**No Cost**

### Alternative 2 Headworks with Coarse and Fine Screen and Grit Removal

- Mechanical coarse screening
- Mechanical fine screening
- Odor control & redundancy
- Includes grit removal system

**Total Project Cost:  
\$12,285,200.00**

### Alternative 3 Headworks with Future Expansion Provisions

- Mechanical fine screening
- Odor control & redundancy
- Supports future WWTF upgrades

**Total Project Cost:  
\$8,904,000.00**

# Alternatives Comparison

## Alt. 1 | No Action

Inefficiencies, maintenance needs, and labor reliance continue to worsen.

## Alt. 2 | Headworks with Coarse Screens, Fine Screens & Grit Removal

Provides screening, grit removal, odor control, and operational redundancy, provides longer life expectancy to downstream processes. But requires a significantly higher capital investment for benefits that can be incorporated in future phases.

## Alt. 3 | Headworks with Future Expansion Provisions

Provides screening, odor control, operational redundancy, provision for future grit removal addition, provides longer life expectancy to downstream processes, requires less manual intervention and requires a lesser capital investment upfront.

**Recommended path: Alternative 3 provides the best balance of operational improvements, future expandability, and cost-effectiveness while establishing the foundation for future WWTP upgrades.**

# Selected Plan - Alternative 3: Headworks with Future Expansion Provisions

## 1. Centralized treatment front end

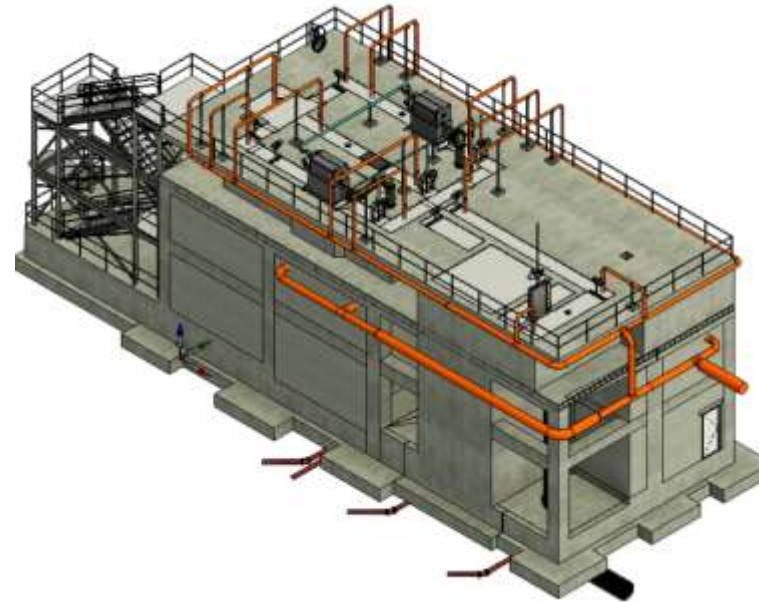
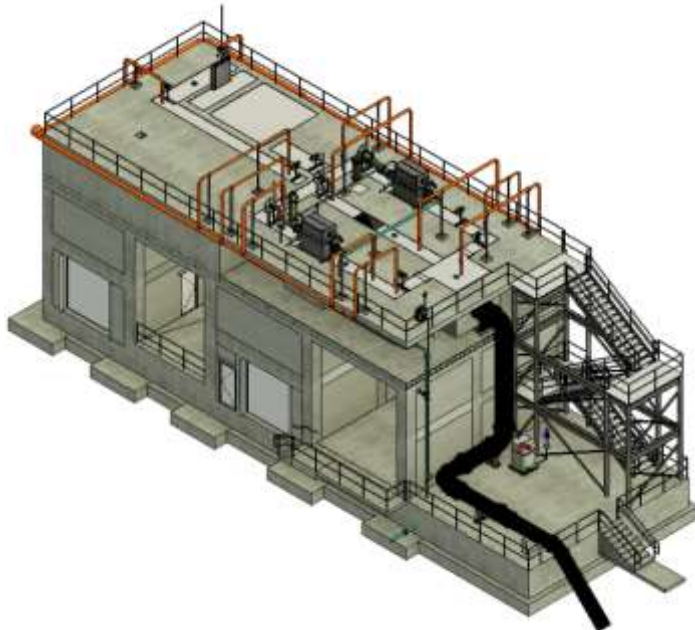
Supports projected flows and creates a maintainable, resilient solution to large debris.

## 2. Protects downstream processes

Removes debris and grit that shortens the life expectancy of the plant before wastewater reaches the treatment phases.

## 3. Most practicable option

Provides immediate operational benefits, supports future grit removal improvements, and establishes the foundation for future WWTP upgrades.



# Environmental Impact

## No significant adverse impacts expected

Improvements occur at the existing WWTP and strengthen treatment reliability over the long term.

### Existing site footprint

Construction stays within the current wastewater facility and does not expand into undisturbed areas.

### Resources protected

No significant adverse effects are expected for wetlands, surface waters, prime agricultural lands, protected species, or nearby communities.

### Short-term construction

Temporary air-quality impacts may occur during construction, but no long-term air impacts are anticipated.

**Long-term environmental benefit:** centralized headworks removes debris, rags, and grit before biological treatment, helping reduce process upsets, equipment wear, and risk of pollutant releases.

# Floodplain Management

EXECUTIVE ORDER 11988  
REVIEW

## ZONE X

Lower mapped flood  
risk

FEMA FIRM 12011C0545J  
places the WWTP outside the  
mapped high-risk flood area.

### What the map means

Zone X generally means FEMA does not identify the site as a high-risk Special Flood Hazard Area.

### What it does not mean

It does not mean flooding is impossible. The project still follows local floodplain and building requirements.

### Project footprint

Work occurs within the existing developed WWTP site and does not expand plant boundaries.

### Neighbor impact

The improvements are not expected to increase flood risk, push water onto nearby properties, or affect floodplain functions.

**Bottom line:** Relocating the facility is not practicable; using the existing site is consistent with federal floodplain objectives and avoids adverse floodplain impacts.

# Monetary Cost to the Public/User



## Utility revenues repay the SRF loan

The Headworks project is proposed to be funded through an SRF loan repaid from the City's Water & Sewer utility revenues.

### Capital cost

**\$8.904M**

### Total cost financed

**\$9.355M**

### Annual SRF debt service

**\$622,561**

City awarded FY2026  
Community Project Funding –  
EPA Grant of \$1.092M towards  
this Project to offset cost.

### Utility fee increases in plan

**8% annually**  
FY 2028–FY 2032

### What this means

Adds an estimated \$622,561  
annual repayment obligation to  
the utility system.

The financial plan accounts for repayment through projected utility revenues and planned rate increases, while maintaining positive Water & Sewer Fund capacity after debt service.

# Implementation & Compliance

Phase	Duration	Start	Finish
Design Phase	9 months	September 2025	June 2026
Permitting	3 months	April 2026	June 2026
Bidding & Award	3 months	July 2026	October 2026
Construction	24 months	October 2026	September 2028

## Agency approvals

Required review step for SRF loan eligibility.

## Capital financing plan

Documents user-rate impact for the public and state agencies.

## Construction readiness

Schedule defines design, permitting, bidding, award, and construction phases.

**Thank you**  
Questions?

