

CITY OF YUBA CITY
STAFF REPORT

Date: August 16, 2022
To: Honorable Mayor & Members of the City Council;
From: Public Works Department
Presentation By: Ben Moody, Public Works & Development Services Director

Summary

Subject: Wastewater Treatment Facility Temporary Discharge Point 003 (Plans & Specifications)
Recommendation: Adopt a Resolution approving the plans and specifications for the Wastewater Treatment Facility Temporary Discharge Point 003 Project (22-12) and authorizing advertisement for bids on the project
Fiscal Impact: Engineer's Estimate: \$275,000.00 – Account No. 1156 (New Outfall and River Levee Crossing Replacement)

Purpose:

To maintain the City's Wastewater Treatment Facility (WWTF) operational effectiveness through proactive rehabilitation and major maintenance.

Council's Strategic Goal:

This project addresses City Council's Strategic Goal of improving the City's Infrastructure.

Background:

The City owns and operates the WWTF that provides secondary treatment and disinfection prior to discharging into the Feather River. Discharges from the WWTF are regulated by Waste Discharge Requirements (WDRs) issued by the Central Valley Regional Water Quality Control Board (Central Valley Water Board), under the National Pollutant Discharge Elimination System (NPDES). The City, as a "Discharger", must comply with requirements set forth in the Waste Discharge Requirements and renew the NPDES permit every 5 years to continue discharge operations. The City must renew its NPDES permit in 2023.

The WWTF discharges into the Feather River through an existing 24-inch diameter outfall pipeline and river diffuser (Discharge Point 001) near Shanghai Falls. The WWTF also has a 36-inch diameter pipeline parallel to the existing diffuser and under the river bed to convey treated effluent to the percolation ponds (Discharge Point 002) on the eastern shore of the Feather River. Discharge Point 002 was designed and installed because erosion of Shanghai Falls in October 2011 altered the river flow path and water depth over Discharge Point 001.

In 2016-2017, excessive rainfall and the Oroville Spillway Incident led to protracted high flows in the Feather River which further eroded the crest of Shanghai Falls. These changes in the Feather River channel at the Discharge Point 001 led to reductions in the depth of flow over the outfall diffuser, which limits dilutions when river flows are less than 10,000 cubic feet per second (cfs), constrains the WWTF discharge flows to the river, creates a public safety issue for river users under low river flows, and violates the City's NPDES permit.

In order to not remain in violation with the terms of the current NPDES permit, and until the permanent discharge point is constructed, the Central Valley Waterboard is requiring the City to provide a new temporary point of discharge (Temporary Discharge Point 003) for the WWTF effluent in the Feather River by constructing a short pipeline to serve as a new discharge point in the interim. Temporary Discharge Point 003 is one component of the WWTF Outfall and Diffuser Project which will permanently reroute the outfall pipeline and relocate the diffuser at a more stable location downstream. Temporary Discharge Point 003 would remain in place until the new permanent diffuser is operational, which is anticipated to be in 2025. Once the permanent outfall pipeline and diffuser is operational, Temporary Discharge Point 003 would be removed from the site.

The major project element of Temporary Discharge Point 003 will consist of approximately 300 feet of 24-inch diameter HDPE pipe that will be installed on the ground surface from an existing 24-inch flanged riser adjacent to the percolation ponds, to a discharge point in the Feather River upstream of Shanghai Falls.

Analysis:

Public Works has prepared the project plans, specifications, and cost estimate for the Wastewater Treatment Facility Temporary Discharge Point 003 Project. With Council's approval of the plans and specifications and authorization to advertise for bids, and upon approval of permits, staff proposes the following schedule:

Advertise for bid:	September 2022
Open bids:	September 2022
Award contract:	October 2022
Start of construction:	November 2022
Complete construction:	November 2022

The plans and specifications for the project are on file in the Public Works Department at City Hall and at www.yubacity.net/publicworksplans for review. The City's Public Works Department will perform construction management and inspection.

Since construction takes place on the bank of the Feather River, and various Federal, State, and Local agencies have jurisdictional authority, the City contracted with Jacobs Engineering Group, Inc. in February 2022 to provide environmental and permitting consultant. On May 2, 2022, Jacobs submitted the following permit applications on behalf of the City for Temporary Discharge Point 003 construction:

- California Department of Fish and Wildlife Lake and Streambed Alteration (LSA) Notification (Section 1600)
- Central Valley Regional Water Quality Control Board application for Clean Water Act Section 401 Water Quality Certification
- U.S. Army Corps of Engineers Pre-Construction Notification for Nationwide Permit (NWP) 7

The City anticipates these permits will be approved by their respective jurisdictions by the end of August 2022. Staff will not advertise for bids until the permits are issued.

Fiscal Impact:

The estimated total project cost is approximately \$275,000. This estimate includes 15% contingency and system start up and testing. Account No. 1156 (New Outfall and River Levee Crossing Replacement) has sufficient funding programmed. Detailed fiscal impacts will be presented to Council at the time of award based on actual bid amounts.

Alternatives:

1. Do not approve the plans and specifications and delay the project.
2. Modify the proposed plans and specifications.

Delaying the project will prolong the City's NPDES permit violation and may impact the City's next renewal cycle.

Recommendation:

Adopt a Resolution approving the plans and specifications for the Wastewater Treatment Facility Temporary Discharge Point 003 Project (22-12) and authorizing advertisement for bids on the project.

Attachments:

1. Resolution - Wastewater Treatment Facility Temporary Discharge Point 003 (Plans & Specifications)
2. Location Map - Wastewater Treatment Facility Temporary Discharge Point 003 (Plans & Specifications)

Prepared By:
Nick Menezes
Assistant Engineer

Submitted By:
Diana Langley
City Manager

ATTACHMENT 1

RESOLUTION NO. _____

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF YUBA CITY
APPROVING THE PLANS AND SPECIFICATIONS FOR THE WASTEWATER
TREATMENT FACILITY TEMPORARY DISCHARGE POINT 003 PROJECT
(22-12) AND AUTHORIZING ADVERTISEMENT FOR BIDS ON THE PROJECT**

WHEREAS, the Public Works Department intends to solicit bids for construction of the Wastewater Treatment Facility Temporary Discharge Point 003 Project (22-12) (Project).

NOW, THEREFORE, be it resolved and ordered by the City Council of the City of Yuba City as follows:

1. The plans and specifications for the Project.
2. The Public Works Department is hereby authorized and directed to advertise for bids for the Project.

The foregoing Resolution was duly and regularly introduced, passed, and adopted by the City Council of the City of Yuba City at a regular meeting thereof held on the 16th day of August, 2022.

AYES:

NOES:

ABSENT:

Dave Shaw, Mayor

ATTEST:

Ciara Wakefield, Deputy City Clerk

APPROVED AS TO FORM
COUNSEL FOR YUBA CITY:

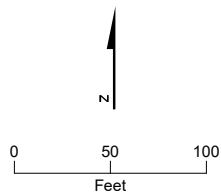
Shannon Chaffin, City Attorney
Aleshire & Wynder, LLP

Attachment 2



VICINITY MAP

— Pipeline



*WWTF Outfall and Diffuser Project, Temporary Outfall
City of Yuba City, California*