
Central Valley Regional Water Quality Control Board

3 March 2023

Chris Elias
San Joaquin Area Flood Control Agency
22 East Weber Avenue, Room 301
Stockton, CA 95202

ORDER AMENDING CLEAN WATER ACT SECTION 401 TECHNICALLY CONDITIONED WATER QUALITY CERTIFICATION; SAN JOAQUIN AREA FLOOD CONTROL AGENCY, SMITH CANAL GATE PROJECT (WDID#5B39CR00307A2), SAN JOAQUIN COUNTY

This Order responds to the 13 January 2023 request for an amendment of the Smith Canal Gate Project (Project) Section 401 Water Quality Certification (WDID#5B39CR00307). The original Water Quality Certification (Certification) was issued on 15 March 2019. The requested amendment is hereby approved. The original Certification is therefore amended as described below. Please attach this document to the original Certification.

AMENDMENT:

San Joaquin Area Flood Control Agency (Permittee) is requesting a time extension through 31 December 2025. In addition, the Permittee is requesting an amendment for change in the Project scope of work and an increase of 0.386 acre in permanent impacts to stream channel habitat from the placement of rock slope protection (RSP).

The Permittee has provided documentation from the United States Army Corps of Engineers (SPK-2016-00037) and the California Department of Fish and Wildlife (Streambed Alteration Agreement# 1600-2018-0342-R3) authorizing in-water construction activities to continue until 31 December 2025.

The Certification is amended as shown in the underlined text below:

I. Project Description

The 51-acre Project will install a fixed cellular sheet pile wall filled with granular material that will extend approximately 800 feet from the northern tip of Dad's Point to the right bank of the San Joaquin River at the Stockton Golf and Country Club, as shown in Figure 2 of Attachment B. The wall will include a 50-foot-wide gate structure. During high flow and tide events, the gate will isolate Smith Canal from the San Joaquin River and allow the existing levees to function as secondary flood risk-reduction measures.

The Project will include the following additional activities to be completed in Year 4 (2023):

- Complete approximately 13 cone penetrometer tests (CPTs) near the floodwall and seepage cutoff wall alignments to characterize the geological composition of the Project area.
- Place rock slope protection (RSP) around the periphery of the gate foundation area. The placement of the RSP will result in an additional .386 acre in permanent impacts to stream channel habitat.

II. Description of Direct Impacts to Waters of the State

The Project will temporarily impact 0.755 acre/165 linear feet of stream channel associated with dredging approximately 8,650 cubic yards of sediment. Dredging will be completed using a combination of long-arm, dragline, and clamshell excavator to provide a level surface for the installation of the sheet pile wall and gate structure. Turbidity curtains will be installed around the limits of the dredge operation and all dredged material will be disposed of at an upland location with no hydrologic connectivity.

The Project will permanently impact 1.206 acre/251 linear feet stream channel and 0.007 acre of wetland habitat associated with the installing the cellular sheet pile wall gate structure and placement of RSP around the gate structure. A metal sheet pile cofferdam will be installed to dewater the work area. To form the cofferdam, sheet piles will be driven using a barge-mounted crane equipped with a vibratory hammer. The gate structure will be constructed with 64 36-inch-diameter concrete-filled steel pipe piles installed along the inside edge of the cofferdam to provide support for the concrete base and walls of the structure. The steel pipe piles will be installed using a barge-mounted crane equipped with a pile-driving hammer. The gate structure base and walls will be cast-in-place and constructed of reinforced concrete. The base will be 69-feet wide, 69-feet long, and 6-feet thick and the walls will be 71.25-feet long, 22-feet tall, and 6-feet thick. The metal gate will be attached to the concrete base and walls using a barge-mounted crane. Approximately 800 tons of rip rap will be placed along the base where the gate structure transitions into wall to provide scour protection.

Table 1: Total Project Fill/Excavation Quantity for Permanent Physical Loss of Area Impacts

Aquatic Resources Type	Acres	Cubic Yards	Linear Feet
Wetland	0.007		
Stream Channel	1.206		251

APPLICATION FEE RECEIVED:

An amendment fee of \$9,503.00 was received on 21 February 2023. The fee amount was determined as required by California Code of Regulations, title 23, sections 3383(b)(3) and 2200(a)(3), as was calculated as category G – Amended Orders with the dredge and fill fee calculator.

CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD CONTACT:

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PUBLIC NOTICE:

The Central Valley Water Board provided public notice of the application pursuant to California Code of Regulations, title 23, section 3858 from 20 January 2023 to 10 February 2023. The Central Valley Water Board did not receive any comments during the comment period.

WATER QUALITY CERTIFICATION:

I hereby issue an Order amending the existing Clean Water Act, Section 401 Technically Conditioned Water Quality Certification for the Smith Canal Gate Project (WDID#5B39CR00307A2). All other conditions and provisions of the original Water Quality Certification and any previously approved amendments remain in full force and effect, except as modified based on the conditions of this Order. Failure to comply with the terms and conditions of the original Water Quality Certification, previously approved amendments, or of this Order may result in suspension or revocation of the Water Quality Certification.

Original Signed by Anne Walters for:

Patrick Pulupa
Executive Officer

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