
Central Valley Regional Water Quality Control Board

11 June 2018

Paul Zedonis
U.S. Bureau of Reclamation
16349 Shasta Dam Blvd.
Shasta Lake, CA 96019

CLEAN WATER ACT SECTION 401 TECHNICALLY CONDITIONED WATER QUALITY CERTIFICATION; U.S. BUREAU OF RECLAMATION, 2018-2022 CLEAR CREEK GRAVEL AUGMENTATIONS PROJECT (WDID# 5A45CR00551), REDDING, SHASTA COUNTY

This Order responds to the 14 May 2018 application submitted by U. S. Bureau of Reclamation (Applicant) for Water Quality Certification of the 2018-2022 Clear Creek Gravel Augmentations Project temporarily impacting 1.55 acres of waters of the United States.

This Order serves as certification of the United States Army Corps of Engineers' Letter of Permission (SPK# 2018-00330) under Section 401 of the Clean Water Act and a Waste Discharge Requirement under the Porter-Cologne Water Quality Control Act.

WATER QUALITY CERTIFICATION STANDARD CONDITIONS:

1. This Order serves as a Water Quality Certification (Certification) action that is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Section 13330 of the California Water Code and Section 3867 of California Code of Regulations (CCR).
2. This certification action is not intended and shall not be construed to apply to any discharge from any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent certification application was filed pursuant to 23 CCR Section 3855(b) of the California Code of Regulations, and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3. The validity of any non-denial certification action shall be conditioned upon total payment of the full fee required under Section 3833 of the California Code of Regulations.
4. This Certification is no longer valid if the project (as described) is modified, or coverage under Section 404 of the Clean Water Act has expired.

5. All reports, notices, or other documents required by this Certification or requested by the Central Valley Water Board shall be signed by a person described below or by a duly authorized representative of that person.
 - a. For a corporation: by a responsible corporate officer such as (1) a president, secretary, treasurer, or vice president of the corporation in charge of a principal business function; (2) any other person who performs similar policy or decision-making functions for the corporation; or (3) the manager of one or more manufacturing, production, or operating facilities if *authority* to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor.
 - c. For a municipality, State, federal, or other public agency: by either a principal executive officer or ranking elected official.

6. Any person signing a document under Standard Condition No. 5 shall make the following certification, whether written or implied:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

TECHNICAL CERTIFICATION CONDITIONS:

In addition to the above standard conditions, the Applicant shall satisfy the following:

1. The Applicant shall notify the Central Valley Regional Water Quality Control Board (Central Valley Water Board) in writing at least **seven (7) days** in advance of the start of any work within waters of the United States. The notification shall include the name of the project and the WDID number and shall be sent to the Central Valley Water Board Contact indicated in this Certification.
2. Except for activities permitted by the United States Army Corps of Engineers under Section 404 of the Clean Water Act, soil, silt, or other organic materials shall not be placed where such materials could pass into surface water or surface water drainage courses.
3. The Applicant shall maintain a copy of this Certification and supporting documentation (Project Information Sheet) at the Project site during construction for review by site personnel and agencies. All personnel (employees, contractors, and subcontractors) performing work on the proposed Project shall be adequately informed and trained regarding the conditions of this Certification.

4. The Applicant shall perform surface water sampling when:
 - a) performing any in-water work;
 - b) in the event project activities result in any materials reaching surface waters;
 - c) any activities result in the creation of a visible plume in surface waters.

The monitoring requirements in Table 1 shall be conducted upstream out of the influence of the Project and approximately 300 feet downstream of the work area. The sampling location and frequency may be modified for certain projects with written approval from Central Valley Water Board staff.

Table 1:

Parameter	Unit	Type of Sample	Minimum Sampling Frequency	Required Analytical Test Method
Turbidity	NTU	Grab ⁽¹⁾	Every 4 hours during in-water work	(2, 4)
Visible construction related pollutants ⁽³⁾	Observations	Visual Inspections	Continuous throughout the construction period	—

- ⁽¹⁾ Grab samples shall be taken at mid-depth and collected at the same time each day to get a complete representation of variations in the receiving water.
- ⁽²⁾ Pollutants shall be analyzed using the analytical methods described in 40 Code of Federal Regulations Part 136; where no methods are specified for a given pollutant, the method shall be approved by Central Valley Water Board staff.
- ⁽³⁾ Visible construction-related pollutants include oil, grease, foam, fuel, petroleum products, and construction-related, excavated, organic or earthen materials.
- ⁽⁴⁾ A hand-held field meter may be used, provided that the meter utilizes a USEPA-approved algorithm/method and is calibrated and maintained in accordance with the manufacturer's instructions. A calibration and maintenance log for each meter used for monitoring required by this Certification shall be maintained at the Project site.

As appropriate, surface water monitoring shall occur at mid-depth. A surface water monitoring report shall be submitted to the Central Valley Water Board Contact indicated in this Certification within two weeks of initiation of sampling and every two weeks thereafter. In reporting the monitoring data, the Applicant shall arrange the data in tabular form so that the sampling locations, date, constituents, and concentrations are readily discernible. The data shall be summarized in such a manner to illustrate clearly whether the Project complies with Certification requirements. The report shall include surface water sampling results, visual observations, and identification of the turbidity increase in the receiving water applicable to the natural turbidity conditions specified in the turbidity criteria below.

If no monitoring is conducted, the Applicant shall submit a written statement to the Central Valley Water Board Contact indicated in the Certification stating, "No monitoring was required," with the Notice of Completion.

5. The Central Valley Water Board adopted a *Water Quality Control Plan for the Sacramento River Basin and San Joaquin River Basin, Fourth Edition, revised April 2016* (Basin Plan) that designates beneficial uses, establishes water quality objectives, and contains

implementation programs and policies to achieve those objectives for all waters addressed through the plan. Turbidity limits are based on water quality objectives contained in the Basin Plan and are part of this Certification as follows:

- a) Activities shall not cause turbidity increases in surface water to exceed:
 - i. where natural turbidity is less than 1 Nephelometric Turbidity Units (NTUs), controllable factors shall not cause downstream turbidity to exceed 2 NTU;
 - ii. where natural turbidity is between 1 and 5 NTUs, increases shall not exceed 1 NTU;
 - iii. where natural turbidity is between 5 and 50 NTUs, increases shall not exceed 20 percent;
 - iv. where natural turbidity is between 50 and 100 NTUs, increases shall not exceed 10 NTUs;
 - v. where natural turbidity is greater than 100 NTUs, increases shall not exceed 10 percent.

Except that these limits will be eased during in-water working periods to allow a turbidity increase of 15 NTUs over background turbidity. In determining compliance with the above limits, appropriate averaging periods may be applied provided that beneficial uses will be fully protected. Averaging periods may only be used with prior approval of the Central Valley Water Board staff.

6. The Applicant shall notify the Central Valley Water Board immediately if the above criteria for turbidity or other water quality objectives are exceeded.
7. In-water work shall occur during periods of low flow and no precipitation. The Applicant shall perform surface water sampling in accordance with Technical Certification Condition No. 4, if any of the following conditions occur: 1) in-water work is conducted during an unanticipated flow event; 2) Project activities result in any materials reaching surface waters; or 3) Project activities result in the creation of a visible plume in surface waters.
8. Activities shall not cause visible oil, grease, or foam in the receiving water.
9. Refueling of equipment within the floodplain or within 300 feet of the waterway is prohibited. If critical equipment must be refueled within 300 feet of the waterway, spill prevention and countermeasures must be implemented to avoid spills. Refueling areas shall be provided with secondary containment including drip pans and/or placement of absorbent material. No hazardous materials, pesticides, fuels, lubricants, oils, hydraulic fluids, or other construction-related potentially hazardous substances should be stored within a floodplain or within 300 feet of a waterway. The Applicant must perform frequent inspections of construction equipment prior to utilizing it near surface waters to ensure leaks from the equipment are not occurring and are not a threat to water quality.
10. Raw cement, concrete (or washing), asphalt, drilling fluids, lubricants, paints, coating material, oil, petroleum products, or any other substances which could be hazardous to fish

and wildlife resulting from or disturbed by project-related activities, shall be prevented from contaminating the soil and/or entering waters of the United States.

11. The discharge of petroleum products, any construction materials, hazardous materials, pesticides, fuels, lubricants, oils, hydraulic fluids, raw cement, concrete, asphalt, paint, coating material, drilling fluids, or other construction-related potentially hazardous substances to surface water and/or soil is prohibited. In the event of a prohibited discharge, the Applicant shall notify the Central Valley Water Board Contact within 24-hours of the discharge.
12. An effective combination of erosion and sediment control Best Management Practices (BMPs) shall be implemented and adequately working during all phases of construction.
13. All areas disturbed by Project activities shall be protected from washout or erosion.
14. This Certification does not allow permanent water diversion of flow from the receiving water. This Certification is invalid if any water is permanently diverted as a part of the Project.
15. The Conditions in this water quality certification are based on the information contained in the Applicant's application and in the attached "Project Information Sheet." If the Project, as described in the application and the attached Project Information Sheet, is modified or changed, this Certification is no longer valid until amended by the Central Valley Water Board.
16. In the event of any violation or threatened violation of the conditions of this certification, the violation or threatened violation shall be subject to any remedies, penalties, process, or sanctions as provided for under the applicable state or federal law. For the purposes of section 401(d) of the Clean Water Act, the applicability of any state law authorizing remedies, penalties, process, or sanctions for the violation or threatened violation constitutes a limitation necessary to ensure compliance with water quality standards and other pertinent requirements incorporated into this certification.
 - a) If the Applicant or a duly authorized representative of the project fails or refuses to furnish technical or monitoring reports, as required under this Order, or falsifies any information provided in the monitoring reports, the Applicant is subject to civil monetary liabilities, for each day of violation, or criminal liability.
 - b) In response to a suspected violation of any condition of this certification, Central Valley Water Board may require the holder of any federal permit or license subject to this certification to furnish, under penalty of perjury, any technical or monitoring reports the Central Valley Water Board deems appropriate, provided that the burden, including costs, of the reports shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. (Water Code, Section 1051, 13165, 13267 and 13383) In response to any violation of the conditions of this certification, the Central Valley Water Board may add to or modify the conditions of this certification as appropriate to ensure compliance.

- c) The Applicant shall allow the staff of the Central Valley Water Board, or an authorized representative(s), upon the presentation of credentials and other documents, as may be required by law, to enter the Project premises for inspection, including taking photographs and securing copies of Project-related records, to assure compliance with this Certification and determine the ecological success of the Project.

NOTIFICATIONS AND REPORTS:

17. The Applicant shall notify the Central Valley Water Board within 7 days of the project completion.
18. The Applicant shall provide the Central Valley Water Board Contact indicated in this Certification a Notice of Completion (NOC) no later than 30 days after the Project completion. The NOC shall demonstrate that the project has been carried out in accordance with the project description in the Certification and in any amendments approved. The NOC shall include a map of the project location(s), including final boundaries of any on-site restoration area(s), if appropriate, and representative pre- and post-construction photographs. Each photograph shall include a descriptive title, date taken, photographic site, and photographic orientation
19. The Applicant shall submit all notifications, submissions, materials, data, correspondence, and reports in a searchable Portable Document Format (PDF). Documents less than 50 MB must be emailed to: centralvalleyredding@waterboards.ca.gov . In the subject line of the email, include the Central Valley Water Board Contact, Project name, and WDID number as shown in the subject line above. Documents that are 50 MB or larger must be transferred to a disk and mailed to the Central Valley Water Board Contact.

REGIONAL WATER QUALITY CONTROL BOARD CONTACT PERSON:

Guy F. Chételat, P.G.
Non-Point Source
Central Valley Regional Water Quality Control Board
364 Knollcrest Drive, Suite 205, Redding, California 96002
gchetelat@waterboards.ca.gov
(530) 224-4997

WATER QUALITY CERTIFICATION:

I hereby issue an Order certifying that any discharge from U.S. Bureau of Reclamation, 2018-2022 Clear Creek Gravel Augmentations Project (WDID# 5A45CR00551) will comply with the applicable provisions of Section 301 ("Effluent Limitations"), Section 302 ("Water Quality Related Effluent Limitations"), Section 303 ("Water Quality Standards and Implementation Plans"), Section 306 ("National Standards of Performance"), and Section 307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Resources Control Board Water Quality Order No. 2003-0017 DWQ

"Statewide General Waste Discharge Requirements For Dredged Or Fill Discharges That Have Received State Water Quality Certification (General WDRs)."

Except insofar as may be modified by any preceding conditions, all Certification actions are contingent on (a) the discharge being limited and all proposed mitigation being completed in compliance with conditions of this Certification, the Applicant's application package, and the attached "Project Information Sheet", and (b) compliance with all applicable requirements of the *Water Quality Control Plan for the Sacramento River Basin and San Joaquin River Basin, Fourth Edition, revised April 2016* (Basin Plan).

Any person aggrieved by this action may petition the State Water Quality Control Board to review the action in accordance with California Water Code Section 13320 and California Code of Regulations, Title 23, Section 2050 and following. The State Water Quality Control Board must receive the petition by 5:00 p.m., 30 days after the date of this action, except that if the thirtieth day following the date of this action falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Quality Control Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.



(for) Patrick Pulupa, Executive Officer

GFC: ch

cc: Mr. Robert Chase, U.S. Army Corps of Engineers, Redding
Ms. Donna Cobb, California Department of Fish and Wildlife, Region 1, Redding
U.S. Fish and Wildlife Service, Sacramento
Mr. Bill Jennings, CALSPA, Stockton

cc by email: U.S. EPA, Region 9, San Francisco
SWRCB, Certification Unit, Sacramento

PROJECT INFORMATION

Application Date: 14 May 2018

Application Deemed Complete: 4 June 2018

Applicant: Paul Zedonis
United States Bureau of Reclamation
16349 Shasta Dam Blvd.
Shasta Lake, CA 96019

Project Name: 2018-2022 Clear Creek Gravel Augmentations Project

Application Number: WDID No. 5A45CR00551

Type of Project: Gravel augmentation and restoration project

Timeframe of Project Implementation: Mid-June 2018 through 30 September 2022

Project Locations: The project is located at 3 sites on lower Clear Creek, downstream of Whiskeytown Reservoir at:

Below Dog Gulch: Latitude: 40°35'30.02" and Longitude: -122°32'45.15"

Clear Creek Road Bridge: Lat: 40°29'38.80" and Long: -122°29'48.60"

Above Phase 3A: Latitude: 40°29'41.59" and Longitude: -122°26'04.07"

County: Shasta County

Receiving Water(s) (hydrologic unit): Clear Creek, tributary of the lower Sacramento River, Sacramento Hydrologic Basin, Redding Hydrologic Unit #508.10, Enterprise Flat HA; Shasta Bally HU #524.62, Kanaka Peak HAS.

Water Body Type: Streambed

Designated Beneficial Uses: The *Water Quality Control Plan for the Sacramento River Basin and San Joaquin River Basin, Fourth Edition, revised April 2016* (Basin Plan) has designated beneficial uses for surface and ground waters within the region. Beneficial uses that could be impacted by the project include, but are not limited to: Municipal and Domestic Water Supply (MUN); Water Contact Recreation (REC-1); Non-Contact Water Recreation (REC-2); Warm Freshwater Habitat (Warm); Cold Freshwater Habitat (COLD); Spawning, Reproduction, and/or Early Development cold (SPWN); and Wildlife Habitat (WILD). A comprehensive and specific list of the beneficial uses applicable for the project area can be found at http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/index.shtml.

303(d) List of Water Quality Limited Segments: Lower Clear Creek is on the 303(d) list for mercury. The most recent list of approved water quality limited segments is found at: https://www.waterboards.ca.gov/rwqcb5/water_issues/tmdl/impaired_waters_list/#intrpt2014_2016

Project Description (purpose/goal): The project will inject gravel (a total of 4,080 cubic yards) at three sites on lower Clear Creek to supplement natural gravel bedload captured in Whiskeytown Reservoir. Lower Clear Creek below the reservoir is depleted in gravel bedload, which has caused degraded channel habitat, channel incision, and loss of floodplain connectivity and function. Gravel injections address these conditions and partly restore spawning habitat for the benefit of endangered salmon and steelhead. The project will temporarily impact 1.55 acres of unvegetated streambed.

Preliminary Water Quality Concerns: Gravel injection activities have the potential to discharge sediment and pollutants from leaking equipment.

Proposed Mitigation to Address Concerns: Best Management Practices (BMPs) to control sedimentation and erosion will be utilized. All temporary affected areas will be restored to pre-construction contours and conditions upon completion of restoration activities. The Applicant will conduct turbidity testing during in-water work, stopping work if Basin Plan criteria are exceeded or are observed. Gravel will be washed and free of contaminants before delivery to the sites. Gravel will be inspected on site to confirm cleanliness before addition to Clear Creek. Equipment will be inspected and monitored for leaks, spill kits will be available on site, and fueling will take place no closer than 300 feet from surface water. The project will be completed by 30 September 2022.

Dredge Volume: Not Applicable

California Integrated Water Quality System Impact Data: The Project will temporarily impact 1.55 acres of streambed through gravel augmentation fill activities.

Table 1: Impacts from Fill and Excavation Activities

Aquatic Resource Type	Temporary			Permanent					
				Physical Loss of Area			Degradation of Ecological Condition Only		
	Acres	Cubic-yards	Linear-feet	Acres	Cubic-yards	Linear-feet	Acres	Cubic-yards	Linear-feet
Stream Channel	1.55	--	--	--	--	--	--	--	--

United States Army Corps of Engineers File Number: SPK-2018-00330

United States Army Corps of Engineers Permit Type: Nationwide Permit #27 (Restoration)

California Department of Fish and Wildlife Lake or Streambed Alteration Agreement: Because the project is being carried out with federal funds on federal land, no Streambed Alteration Agreement was obtained for the project.

Listed Species: The project will benefit endangered Chinook Salmon and Steelhead. Impacts to listed species (Spring Run Chinook Salmon, Steelhead Trout, Valley Elderberry Beetle and migratory birds) will be avoided through project timing and use of best management practices during gravel additions.

Status of CEQA Compliance: The proposed project has been reviewed and determined to be consistent with Categorical Exemption 15333 – Small Habitat Restoration Activities. On 8 June 2018, the California Regional Water Quality Control Board, as lead agency, filed a Notice of Exemption (NOE) at the State Clearinghouse for the project.

Compensatory Mitigation: The Central Valley Water Board is not requesting compensatory mitigation for the Project.

Application Fee Provided: Since the applicant is a Federal Agency, no fees were submitted to the Central Valley Water Board per Section 3833(b)(3)(A) and Section 2200(a)(3) of the California Code of Regulations.