

Central Valley Regional Water Quality Control Board

2 October 2018

Bob Haas
Willow Creek Ranch
30044 Willow Creek Road
McCloud, CA 96017

NOTICE OF APPLICABILITY: STATE WATER RESOURCES CONTROL BOARD AMENDED ORDER FOR CLEAN WATER ACT SECTION 401 GENERAL WATER QUALITY CERTIFICATION FOR SMALL HABITAT RESTORATION PROJECTS FILE# SB12006GN FOR SQUAW VALLEY CREEK RESTORATION PROJECT, SHASTA COUNTY, WDID NO. 5A45CR00546

This letter is to certify small habitat restoration activities at the Squaw Valley Creek Restoration Project site in Shasta County under the State Water Resources Control Board Amended Order for Clean Water Act Section 401 General Water Quality Certification for Small Habitat Restoration Projects File# SB12006GN.

PROJECT DESCRIPTION

The purpose of the Squaw Valley Creek Restoration Project is to improve the instream habitat of Squaw Valley Creek, and to reduce bank erosion and protect property. The emphasis is to create pool frequency and depth and protect unstable stream banks from future undercutting and collapse. The project design is focused on improving habitat and stabilizing stream banks with the least impact on land. The project is subdivided into phases: Phase 1 will be implemented and monitored. Lessons learned from Phase 1 will be used to improve treatments for Phase 2.

The Phase 1 reach is 1000' long and has an average slope of 0.6%. The average wetted width is 12' and average low flow depth is 1.5'. The goal is to create 450' of pool riffle habitat within the Phase 1 reach. The instream work will begin at the lower portion of the Phase 1 reach and work upstream. A total of five instream features will be constructed. J-Hook pools and V-Notch controls will be constructed. Stream bank erosion protection will be addressed as part of these structures. Each feature will armor the bank and promote natural pool scour. The structures will have large woody debris and root wad revetments. With re-vegetation and root wad structures, each feature will work in conjunction with one another to provide adequate bank stabilization, promote scour and deposition, restore the riffle to pool ratio, improve bed particle distribution, and increase habitat for aquatic species. The stream banks will be armored and stabilized. Most of the banks will be re-contoured to a stable angle and armored with rip rap. Floodplain areas will be lowered beyond point bars to promote side channel flow during the larger discharge events, and provide scour relief during large floods. Channel slope will also be reduced within the Phase I reach. The work plan incorporates Best Management Practices (BMPs) to avoid adverse impacts to streams and riparian areas.

Impacts to Aquatic Resources				
Aquatic Resource Type	Temporary Impact		Permanent Impact	
	Acres	Linear Feet	Acres	Linear Feet
Stream Channel			0.17	450
Total Area Affected			0.17	450

FINDINGS OF APPLICABILITY

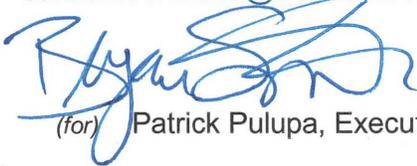
This letter serves as formal notice that Order No. SB12006GN is applicable to this project. Your waste discharge identification (WDID) number is 5A45CR00546.

Reporting

A Notice of Completion (NOC) shall be submitted by the applicant no later than 30 days after the work has been completed. The NOC shall demonstrate that the work has been carried out in accordance with the description provided in the applicant's Notice of Intent (NOI).

Failure to comply with the terms and conditions of Order No. SB12006GN may expose you to enforcement action pursuant to the Clean Water Act and California Water Code.

If you have any questions contact Dannas Berchtold at (530) 224-4783, dannas.berchtold@waterboards.ca.gov, or the footer address.



(for) Patrick Pulupa, Executive Officer

DJB: ch

cc: Matthew Kelley, U.S. Army Corps of Engineers, Redding
Adam McKannay, Department of Fish and Wildlife, Region 1, Redding

cc by email: Sam Ziegler, U.S. Environmental Protection Agency, Region 9, San Francisco
Elizabeth Payne, Water Quality Certification Program, SWRCB, Sacramento