



C.H.J. Incorporated

Former NCC OSC Morris Dam R&D Facility

Owner: US NAVY c/o Innovation Technical Solutions, Inc.

Project Summary

The former Naval Command Control and Ocean Surveillance Center (NCCOSC) Morris Dam R&D facility is located off of Highway 39 in the East Fork of San Gabriel Canyon in southern California. The project area consisted of an approximately 240' x 120' area located in the southern portion of the 20-acre NCCOSC site. The site configuration and planned excavation depths included maximum temporary cuts up to 55 feet high. Existing slopes were covered by a shotcrete facing and concrete building pads. The site is located in a high seismic potential area.

C.H.J.'s Role

CHJ performed a geotechnical slope stability investigation in support of a proposed non-time-critical soil removal remediation project at the former Morris Dam R&D facility.

The purpose of our investigation was to characterize a soil/rock mass within the proposed removal/cut slope to provide data for design of slope options that included construction of a retaining wall, regrading of the site, or a combination of regrading with a shorter retaining wall.

As part of our scope of services, CHJ prepared a Geotechnical Health and Safety Plan, drilled and logged down-hole two bucket auger borings, evaluated the geology and bedrock structure of the site, performed laboratory testing on rock materials, and evaluated the proposed rock cuts using slope stability modeling software.

The site geology included areas of fill, older alluvial deposits, and fractured and folded crystalline bedrock of mixed rock types including gneissic-diorite, pyroxenite/amphibolite and quartz.

CHJ concluded that use of temporary bedrock cuts were suitable for purposes of the removal action eliminating the need for a retaining wall structure (as originally planned) for safe removal of contaminated soils and bedrock. This resulted in a significant cost savings for the project.



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