

EDWARD SEQUENCE

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2008 OPPORTUNITY DRIVE #150
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SUMMARY

Wetlands specialist
Restoration ecologist
Environmental compliance specialist

CAREER SUMMARY

WestEKO International, 1999-Present
Restoration Ecologist/Wetlands Specialist

ENVIRON, 1998-1999
Environmental/Wetlands Scientist

Golden Pacific Environmental, 1996-1998
Environmental Project Manager

The Mullen+Watkins+Everett Group, 1992-1996
Environmental Specialist/Wetlands Ecologist

EDUCATION

BA, Environmental Conservation, University of California, Santa Cruz, 1994

AFFILIATIONS

Society of Wetland Scientists
California Native Plant Society
International Erosion Control Association
Trout Unlimited
Ducks Unlimited

CERTIFICATIONS/TRAINING

U.S. Army Corps of Engineers Wetland Delineation Certification Program Training Course, 1998

How to Select, Establish and Use Plants for Erosion Control IECA Professional Development Course, 2001

PUBLICATIONS/PRESENTATIONS

Sequence, E., and Mitchell, B., Post Treatment Wetted Surface Area at the Putah Creek Nonpoint Source Pollution Project. Proceedings of the Southwestern and Rocky Mountain Division American Association for the Advancement of Science Seventy-Sixth Annual Meeting. Volume 34, Number 1, May 2000.

Sequence, E., and Faulkner, W., Rehabilitation and Revegetation of a Landslide above the PG&E Moraga Substation. Proceedings of the 37th Annual International Erosion Control Association Conference, February 5-9, 2006 and Land and Water Magazine, July/August 2006.

WETLAND SCIENTIST, BIOLOGIST, RESTORATION ECOLOGIST

Edward Sequence's qualifications include more than nine years experience in the environmental consulting industry, where his skills have allowed him to gain extensive experience in all aspects of ecological restoration, wetlands and threatened and endangered species issues.

This specialized skill set includes wetland delineation, upland and wetland mitigation, wetland permitting, NEPA/CEQA compliance consulting, vegetation classification and mapping, fisheries habitat restoration, habitat evaluation for threatened and endangered species as well as some experience conducting macro-invertebrate and fish biomass surveys.

Mr. Sequence also has experience working on numerous environmental compliance projects and has developed skills training construction crews, tracking mitigation and monitoring programs, and communicating with construction management teams. His experience also includes specifying, installing, and monitoring sediment and erosion control measures (BMPs) with regard to water quality control and NPDES standards. This environmental compliance project experience is complemented by extensive experience with resource agency permitting including Clean Water Act Sections 401 and 404, CDFG Section 1600, Habitat Loss Permits, and numerous other regional and local permits.

Mr. Sequence has managed numerous projects from the initial assessment stage through planning, impact assessment, permitting, and mitigation design to onsite construction supervision and mitigation implementation. His experience has also allowed him to manage many multidisciplinary teams of specialists from both the private and public sector during the NEPA and CEQA processes.

HABITAT RESTORATION

Berryessa Reservoir, Yolo County, California
Restoration Ecologist / Compliance Monitor
CLIENT: City of Winters

In response to projected temporary impacts to 3.7 acres of sage scrub from installation of an underground reservoir, WestEKO was retained to prepare landscape plans and specifications, install the irrigation system and landscape plants and seed, and maintain and monitor the site. Preparation of the landscape plans and specifications involved coordination with City planners and project engineers, and the plans were prepared quickly to secure state funding for the reservoir project. Based on input from the project team including construction personnel, native plants were salvaged and transplanted and topsoil re-applied. On behalf of the project, WestEKO oversaw storm water pollution prevention measures and erosion control during reservoir construction and the current re-vegetation phase. The irrigation system and native container plants and seed were successfully installed in 2001.

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Coachella Canal Lining Project, Imperial County, California**Project Manager/Restoration Ecologist****CLIENT: Coachella Valley Water District/U.S. Bureau of Reclamation**

Evaluated and delineated vegetation community changes from original 1989 mapping to 2000 conditions. Impacts to desert riparian and marsh/aquatic habitats resulting from the lining of approximately 32 miles of earthen canal were then assessed. Coordinated with GIS staff to document changes. Coordinated with the resource agencies and clients to resolve potential listed species issues and managed wildlife biology staff assessing those potential issues. Prepared concept for desert riparian habitat mitigation effort and final mitigation implementation plan for over 300 acres of habitat creation.

Monterey Highlands Canyon Comprehensive Mitigation Plan, Monterey, California**Restoration Ecologist/Wetland Scientist****CLIENT: Granite Construction**

Evaluated and mapped upland and wetland/riparian vegetation communities within the boundary as defined the upper canyon. Work included mapping sensitive habitat (coastal sage scrub, wetland/riparian areas, etc.), identifying and evaluating potential restoration areas, and assimilating field data into usable form.

Temecula Creek Restoration, Riverside County, California**Restoration Ecologist****CLIENT: City of Temecula**

Conducted a field meeting and inspection of grading with the contractor and the City of Temecula for an ACOE and CDFG mitigation area. Work included coordination, field inspection, and resulting recommendations. Continuing work includes implementation monitoring and long-term success monitoring and reporting.

Emergency Storage Project Seacliff Pipeline, Santa Cruz County, California**Restoration Ecologist****CLIENT: Santa Cruz County Water Authority**

Inspected proposed geotechnical boring locations for a proposed pipeline near Seacliff Reservoir. Work included identifying biological constraints for access and drilling at eleven locations. Biological constraints identified included coastal sage scrub habitat impacts, coast live oak presence, and proposed boring locations in Seacliff Creek. Biological constraints were then analyzed referencing existing 404 and 1601 permits and recommendations for avoidance, minimization and restoration were produced.

WETLANDS DELINEATION, RESTORATION, PERMITTING, MONITORING AND MITIGATION DESIGN**Miramar Naval Training Center Redevelopment, Orange County, California****Restoration Ecologist/Wetland Scientist****CLIENT: Private Developer**

Participated in design charettes to incorporate natural wetland features in storm water retention ponds. Ideas and input included development of functional wetland features, wildlife habitat, and other amenities for sustainable community design.

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SR-56 Wetland Mitigation Plan, San Diego, California**Restoration Ecologist/Wetland Scientist****CLIENT: Jacob Engineering**

Assisted in the preparation of a conceptual wetlands mitigation plan for the proposed SR-56 alignment as required by the ACOE and the CDFG. Work included mitigation ratio analyses and mitigation report preparation.

Wetland Mitigation Site Selection Model, San Luis Obispo County, California**Restoration Ecologist/Wetland Scientist****CLIENT: San Luis Obispo County Water Authority**

Worked with biology team to produce a model to select wetland mitigation sites in San Luis Obispo County. Work included formulation of selection criteria, designation of values for those criteria, and putting the criteria into a user-friendly format. Field application of the model to select appropriate mitigation sites to compensate for project-related impacts was completed and site selection and design is in progress.

U.S. Highway 285/S.H. 17 Safety Improvements, Keystone County, Colorado**Restoration Ecologist/Wetland Scientist****CLIENT: Colorado Department of Transportation**

Conducted wetland delineation of a 10-mile highway corridor for the Colorado Department of Transportation. Work included jurisdictional delineation, boundary verification with ACOE, identification of conceptual mitigation areas, and 404 permitting. The work also included assuring compliance with Colorado Senate Bill 40.

U.S. Highway 160 (west) Safety Improvements, Keystone County, Colorado**Restoration Ecologist/Wetland Scientist****CLIENT: Colorado Department of Transportation**

Conducted wetland delineation of a 15-mile highway corridor west of Durango for the Colorado Department of Transportation. Work included jurisdictional delineation, boundary verification with the ACOE, identification of conceptual mitigation areas, and 404 permitting. The work also included assuring compliance with Colorado Senate Bill 40.

Copper Bowl Expansion, Summit County, Colorado**Restoration Ecologist/Wetland Scientist****CLIENT: Copper Mountain Ski Area**

Assisted in the design of a wetland mitigation project at over 11,000 feet elevation to replace wetland impacts associated with the construction of a new ski lift.

Snowmass Mountain Wetland Assessment, Pitkin County, Colorado**Restoration Ecologist/Wetland Scientist****CLIENT: Aspen Ski Company**

Delineated wetlands in undeveloped areas of Snowmass Ski Area's special use permit area.

ENVIRONMENTAL COMPLIANCE AND BIOLOGICAL MONITORING**City of Modesto Reclaimed Water Distribution System, Modesto, California****Restoration Ecologist****CLIENT: City of Modesto**

Tasks include obtaining 404, 1601, 401, and 4(d) permits for project approval, plan review, developing a mitigation requirement database, conducting construction crew trainings, onsite biological and environmental compliance monitoring, team meetings, coordination with city staff and construction site managers, and agency coordination.

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Mission Creek Wetlands Management Plan, San Diego, California**Restoration Ecologist/Wetland Scientist****CLIENT: City of San Diego**

Managed and conducted biological field studies and preparation of a wetlands management and restoration opportunities report for Mission Creek in south San Diego. Tasks include project management, team meetings, coordination with City staff, wetland delineations, restoration opportunity identification, opportunities and constraints analysis, and preparation of a comprehensive wetlands management plan.

Moraga Substation Coastal Sage Scrub Biological Monitoring, Moraga, California**Restoration Ecologist****CLIENT: Pacific Gas and Electric**

Monitored the implementation and maintenance of a rehabilitated and re-vegetated landslide. Work included monitoring coastal sage scrub container plant and hydroseed applications, seed and plant inspection, contractor training, success standard monitoring, project coordination, and maintenance instruction and supervision.

Oak Grove Drive Wetland Mitigation, San Clemente California**Restoration Ecologist/Wetland Scientist****CLIENT: City of San Clemente**

Monitored and inspected a wetland mitigation project for impacts incurred from a road-widening project. Work included project coordination, contractor/design team meetings, monitoring survey staking, grading, container plant delivery, sediment and erosion control requirements, site mitigation requirements, container plant and seed application, and final environmental compliance evaluation.

NEPA/CEQA COMPLIANCE MANAGEMENT AND REPORT PREPARATION**Sonoma Creek EIS/EIR and Restoration Plan****Restoration Ecologist****CLIENT: U.S. Army Corps of Engineers**

Significantly contributed to the biology sections of the NEPA and CEQA document for the Sonoma Creek Flood Control and Management Plan. Also played a major role in the preparation of a restoration and mitigation plan for impacts to wetlands, waters of the U.S., riparian woodland, and Marin coastal sage scrub. Work included restoration design, impact analysis, construction cost estimates, alternatives analysis, plan review, and team coordination.

San Simeon Creek EIS/EIR and Mitigation Plan**Restoration Ecologist/Wetland Scientist****CLIENT: U.S. Army Corps of Engineers**

Significantly contributed to the preparation of the mitigation plan for impacts to wetlands, waters of the U.S. and riparian woodland. Work included restoration design and construction cost estimates.

Donner Creek Ski Area Expansion, New Parking Lots and Ski Lift, Tahoe County, California**Restoration Ecologist/Wetland Scientist****CLIENT: Donner Creek Ski Area**

Managed a multi-disciplinary team of specialists from both the public and private sector. Worked closely with the Tahoe National Forest and Donner Creek Ski Area Management to effectively and efficiently work through the NEPA/CEQA process from initial scoping through the final appeal and Record of Decision signing. Compiled the specialists' reports into the EA text and prepared the wetland and socioeconomic sections.

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Southern Ute Indian Tribe (SUIT) Cedar Point Housing Development EA, La Plata County, Colorado**Restoration Ecologist****CLIENT: Southern Ute Indian Tribe**

Conducted an extensive wetland delineation of a 400-acre site on the Southern Ute Reservation. Work included jurisdictional delineation, boundary verification with the ACOE, identification of conceptual mitigation areas, and 404 permitting. The work also included preparation of support material for the vegetation, physical environment, and wildlife sections of an EA prepared for the Bureau of Indian Affairs.

STREAM HABITAT/FISHERIES RESTORATION**Rancho Creek Fisheries Habitat Restoration Plan, Ventura County, California****Restoration Ecologist****CLIENT: U.S. Army Corps of Engineers, Los Angeles District**

Assisted in the preparation of a preliminary restoration plan for lower Rancho Creek with special attention to re-establishing a migration route for salmon spawning. Work included conceptual design, report edits, and graphics preparation.

Mountain Gravel Habitat Restoration, Los Alamitos, California**Restoration Ecologist****CLIENT: Granite Gravel**

Team member in the design of Los Alamitos River Restoration to mitigate for gravel harvest activities. Work involved data collection, data analysis, and preparation of design figures to support Individual 404 Permit renewal application.

Yuba Reservoir, Yuba County, California**Restoration Ecologist****CLIENT: Sutter Buttes Development, LLC**

Worked with engineers on the design of the restoration of Yuba Creek to mitigate for impacts associated with an in-stream reservoir. Design included drop structures, bank recontouring and stabilization using bioengineered treatments, and recreating a 1:1 pool to riffle ratio.

Alpine Cascade Ranch Trout Habitat Enhancement, Archuleta County, Colorado**Restoration Ecologist****CLIENT: Pagosa Land and Cattle Company**

Team member in the design of San Juan River Trout Habitat Enhancement/ Restoration to improve health and size of trout population. Work involved data collection, data analysis, and preparation of design figures to support Regional General 404 Permit application.