

Steven Whittlesey, PE, Grade D2/T2

Project Manager



EDUCATION

M.S., Environmental Engineering, University of California, Riverside

B.S., Chemical Engineering, University of California, Davis

REGISTRATION

Civil Engineer, California, Registration No. 93241

Grade D2 Distribution System Operator, No. 53228, California

Grade T2 Water Treatment Operator, No. 44371, California

AFFILIATIONS

California Water Environment Association

American Society of Civil Engineers

Steven has seven years of experience performing civil engineering design and project management for water and wastewater projects including pump stations, treatment plants, water supplies, and wells. He has prepared wastewater treatment process models using GPS-X and has lead many projects to completion.

SELECT PROJECT EXPERIENCE

Mule Creek State Prison WDR Update & CDO Recission

California Department of Corrections and Rehabilitation, City of Lone, California

Project Engineer. In response to a Cease and Desist Order from the State Water Resources Control Board, the CDCR required extensive permitting to alleviate concerns that the vocational schools of the prison were contributing to fugitive contaminants in the stormwater and wastewater system. This project consisted of the completion of land application area management plans, a wastewater evaluation report, a soil sampling evaluation report, groundwater evaluation report, and ultimately a new report of waste discharge to completely characterize all vocational practices. The CDCR retained all treatment and disposal methods and capacities and had the Cease and Desist Order rescinded.

D.A. Porath Sanitation Facility Upgrades

Santa Cruz County Sanitation District, California

Engineering Support. The D.A. Porath Sanitation Facility includes a below-grade pumping station with a wet well and an adjacent dry pump room. Access to the wet well area is provided by a 30-inch diameter manhole located in the laboratory and a 72-inch by 11-inch opening located in an adjacent room which are insufficient to provide access to the wet well for maintenance and monitoring purposes. HydroScience designed an expanded access opening for better access and an additional access hatch for the wet well in an adjacent room. The project included new double leaf access doors with safety grates, removable guardrails, and provisions for protective equipment anchors for wet well entry. HydroScience also designed an actuated main isolation valve replacement in the

yard. The team developed the design in close collaboration with SCCSD engineering and O&M staff.

Woodbridge WWTP Rehabilitation Project

Woodbridge Sanitary District, Woodbridge, California

Project Engineer & Assistant Project Manager. Steven managed the USDA Water & Environmental Program \$1.6M loan application, design, bidding, and construction management for the rehabilitation of the headworks screen, the 1930s Imhoff tank concrete and lining, slide gates and the aerators for the Woodbridge Sanitary District.

Dunnigan WWTF Commissioning and WDR Update

Dunnigan, California

Project Engineer. The Dunnigan WWTF was originally a series of four unlined aerated lagoons and to increase the treatment and disposal capacity, two ponds were converted to in-series lined aeration ponds and two ponds were converted to rapid infiltration basins. Steven completed the report of waste discharge, groundwater monitoring well installation report and field testing, and infiltration testing and water balance for the disposal capacity of the system.

Avenal State Prison Wastewater Effluent Disposal Feasibility Study

California Department of Corrections and Rehabilitation, City of Avenal, California

Assistant Project Manager. Coordinated internal engineering and subconsultants for evaluation of the City of Avenal and Avenal State Prison percolation rate investigations, dam embankment stability evaluation, and preliminary facility layouts and comparative

life cycle cost estimates for \$16–\$30 million wastewater storage and disposal improvements.

Salida Wastewater Master Plan & Preliminary Design of SBR / Solids Systems

Salida Sanitary District, City of Salida, California

Lead Project Engineer. Developed the project scope and fee, and preliminary master planning efforts including wastewater flow and constituent characterization. This project primarily focused on replacement of the solids drying beds, and expansion and optimization of the secondary SBR system to enhance denitrification.

Penn Valley WWTF Decommissioning

Penn Valley, North San Juan, California

Project Manager. Due to the regionalization of the Penn Valley Wastewater Collection System, the Penn Valley Wastewater Treatment Facility became a stranded asset for the County. As the County was continuing to pay for monitoring and reporting on the treatment system, Steven was tasked with investigating, scoping and general project management for the rescission of the Waste Discharge Requirements and Cease and Desist Order prior to the County selling the property.

San Andreas WWTP Disposal Capacity Assessment

San Andreas Sanitary District, San Andreas, California

Project Engineer. Steven prepared design calculations, and technical memo and response to the State Waterboard's comments for a disposal capacity assessment of the WWTP which allowed increased NPDES surface water discharges closer to rainfall events.

Woodard Bottom Disposal System Design & Permitting

California Department of Corrections and Rehabilitation, City of Lone, California

Project Engineer. This project involved commissioning and startup of a secondary disinfected effluent disposal system for CDCR, who shared the pond storage facilities with the Amador Regional Sanitation Agency and the disposal facilities with the Castle Oaks Golf Course. As part of the acceptance of the project by the State Water Resources Control Board, an update to the Waste Discharge Requirements was required, which was Steven's other main role in the project besides commissioning.

Riverbank Recycled Water Project, Feasibility Study and Preliminary Design

City of Riverbank, California

Project Manager. Developed preliminary engineering reports and design documents for the City of Riverbank's application to the Clean Water State Revolving Fund Proposition 1 Grant

Program. The preliminary design included plans, treatment modelling, life cycle cost estimation, user rate and environmental studies, and design reports to evaluate the City's impact to user rates for the \$65 Million recycled water treatment and conveyance facilities.

Lockeford Wastewater Master Plan

Lockeford Community Services District, City of Lockeford, California

Project Manager. Led a team of three engineers and one GIS technician to develop feasible treatment, storage, and disposal system improvements for the long-range planning and rate setting basis for the wastewater system. Alternatives identified included deepening the in-series treatment pond system, adding a membrane ultra filtration plant and recycled water disposal via local orchard crop evapotranspiration.

Vaca Valley Water System Consolidation Master Plan

Solano Irrigation District, City of Vacaville, California

Project Manager. Led the team's alternatives analysis of options of up to \$29 Million for interconnection of two water distribution and treatment systems. This project included working alongside the District staff and a hired economist to develop an implementation and financing plan to establish a potential capacity charge or connection fee program for in recommended improvements.

City of Live Oak, P Street Lift Station Upgrade and Modification Project

City of Live Oak, California

Project Engineer. Steven assisted with preparing design calculations, drawings and specifications for the \$3.5 million project. Worked with vendors and manufacturers to develop sole source specifications and bidding criteria. He also managed permitting under the Limited Threat Discharges NPDES General Order.

Del Valle Water System Replacement Project

East Bay Regional Parks District, Alameda County, California

Project Engineer. This project involved replacement of the Del Valle Water System which was a surface water treatment, storage and distribution system installed in the 1960s. The system was replaced with a conventional clarifier to pressure filter treatment plant and two new storage tanks. Additionally, all of the original asbestos piping was bursted and replaced with HDPE piping. Steven was responsible for commissioning and start up of the system, as well as developing the operations and maintenance manual and the Title 22 Engineers Report.