

JEFF LEWANDOWSKI, D. ENG., P.E.

EDUCATION

D. Eng., Civil Engineering (Hydraulic and Coastal Engineering), University of California, Berkeley, 1993

M.S., Engineering, South Dakota State University, 1985

B.S., Civil Engineering, South Dakota State University, 1984

REGISTRATION

Engineer-in-Training, 1984, South Dakota, E-4606

Professional Civil Engineer, California, 1994, C52503,

Professional Civil Engineer License in Other States:

Hawaii 20129-C

AFFILIATIONS

American Society of Civil Engineers (ASCE)

California Water Environment Association (CWEA)

Forensic Expert Witness Association (FEWA)

SUMMARY

With over 35 years of experience in study and design of water related planning, management, and operations, Dr. Lewandowski has been project engineer and project manager for a number of projects involving storm water, drinking water, wastewater, recycled water and groundwater, including over two dozen master planning projects. He has provided innovative solutions to resolve many water related issues and has performed numerous technical reviews of water and wastewater projects. He also has extensive experience in modeling, including both steady and unsteady flow in pipelines and natural systems such as rivers and wetlands. He also has experience in sedimentation and scour, and their impacts on water quality.

EXPERIENCE

Served as Project Engineer or Project Manager on the following projects:

Flooding, Storm Water and Drainage Master Plans and Analyses

- ◆ On-Call Hydrologic and Hydraulic Assistance, Contra Costa County Flood Control District, CA
- ◆ Preliminary Floodplain Analysis for Wastewater Treatment Plant Site, Greenfield, CA
- ◆ Drainage Investigation for Storm Water Runoff and Tidal Flooding, San Pablo Bay, CA
- ◆ Drainage Investigation for Storm Drain Capacity, Homeowners Association, Calaveras County, CA
- ◆ Drainage Investigation for Commercial Development, Solano County, CA
- ◆ Drainage Investigation for Storm Water Runoff, Maui, HI
- ◆ Urban Flooding Forensic Investigation, Southern California
- ◆ San Elijo Lagoon Tidal Hydrodynamic Model, San Diego County, CA
- ◆ Stream Management Master Plan, Zone 7 Water Agency, Alameda County, CA
- ◆ San Juan Basin Surface Drainage Feasibility Plan, San Benito County Water District, CA
- ◆ Pajaro River Watershed Study, Pajaro River Watershed Flood Prevention Authority, CA

- ◆ Community Storm Water Drainage Studies, Cities of Cayucos and Nipomo in San Luis Obispo County, CA
- ◆ Upper Penitencia Creek Floodplain Study, Santa Clara Valley Water District, CA
- ◆ Calera Creek Floodplain Study, Santa Clara Valley Water District, CA
- ◆ Storm Drainage Capacity Investigation, Homeowners Association, Contra Costa County, CA
- ◆ Creek Channel Modification Investigation, Residential Home, Walnut Creek, CA
- ◆ Hydraulic Analyses of Vortex Separator, San Mateo County, CA
- ◆ Green Valley Creek and Jameson Canyon Creek Hydrologic Studies- Cordelia, CA
- ◆ Suisun Creek Floodplain Study near Interstate 80 - Fairfield, CA
- ◆ San Pablo and Wildcat Creeks Floodplain Assessment, San Pablo, CA
- ◆ West Branch Alamo Creek Floodplain Study, Alameda County, CA
- ◆ Collier Canyon Creek CLOMR, Livermore, CA.
- ◆ Agua Fria Creek Relocation Analysis for Warren Avenue Grade Separation, Fremont, CA.
- ◆ Mission Bay Development Flooding and Storm Drain Analysis, San Francisco, CA
- ◆ New Business Construction EIR Hydraulics Review, Watsonville, CA
- ◆ Southfront Road Trunk Storm Drain Analysis, Livermore, CA
- ◆ Crystal Springs Reservoir Sedimentation Basin Predesign, San Francisco, CA
- ◆ Drainage and Water Quality Studies, Los Angeles International Airport, Los Angeles, CA
- ◆ Ygnacio Canal Storm Water Flood Study, Contra Costa Water District, CA
- ◆ Storm Drain Modeling and Master Planning, Sacramento, CA

Storm Water Quality Studies and Analyses

- ◆ Storm Water Lagoons Treatment Capacity Evaluation, City of Milpitas, CA
- ◆ Assessment and Mitigation of Construction and Development Impacts to Storm Water Runoff, Ventura County, CA
- ◆ Drainage and Water Quality Studies for Los Angeles International Airport Expansion, Los Angeles, CA

- ◆ Storm Water Discharge Quality Characterization, City of Salinas, CA
- ◆ Storm Water Pollution Prevention Plan Development, CA

Sewer System Analysis, Design and Construction

- ◆ Pump Station Overflow Investigation, Sacramento, CA
- ◆ Hydraulic Analysis for Sewer Replacement Project, Walnut Creek, CA
- ◆ 2023 Priority Improvements, Rodeo Sanitary District, CA
- ◆ 2020 Priority Improvements, Rodeo Sanitary District, CA
- ◆ Master Plan Year 3B Sewer Design, Rodeo Sanitary District, CA
- ◆ Master Plan Year 3A Sewer Design, Rodeo Sanitary District, CA
- ◆ Master Plan Year 2B Sewer Design, Rodeo Sanitary District, CA
- ◆ Master Plan Year 2A Sewer Design, Rodeo Sanitary District, CA
- ◆ Master Plan Year 2 Sewer Design, Rodeo Sanitary District, CA
- ◆ Influent Pump Station Predesign, Rodeo Sanitary District, CA
- ◆ Master Plan Year 1 Sewer Design, Rodeo Sanitary District, CA
- ◆ Sanitary Sewer Cleanout Repair Design, Emeryville, CA

As District Engineer for Castro Valley Sanitary District, Castro Valley, CA performed project management of staff and consultants for the following projects design and/or construction:

- ◆ Castro Valley Boulevard Streetscape Trunk Sewer, Castro Valley, CA
- ◆ Master Plan Priority 1 Phase 1 Sewer Improvements, Castro Valley, CA
- ◆ Master Plan Priority 1 Phase 2 Sewer Improvements, Castro Valley, CA
- ◆ Master Plan Priority 2 Phase 1 Trunk Sewer Improvements, Castro Valley, CA
- ◆ Master Plan Priority 4 Phase 1 Trunk Sewer Improvements, Castro Valley, CA
- ◆ Heyer Avenue Sewer Improvements, Castro Valley, CA
- ◆ San Miguel Sewer Replacement, Castro Valley, CA
- ◆ Craig Court Emergency Sewer Repair, Castro Valley, CA
- ◆ Pump Station 5 Piping Rehabilitation and Electrical and Controls Rehabilitation, Castro Valley, CA

Wastewater Master Planning

- ◆ Brisbane Sewer Master Plan Update, Brisbane, CA
- ◆ Wet Weather Flow Assessment, Rodeo Sanitary District, CA

- ◆ Master Plan Update for Castro Valley Sanitary District, Castro Valley, CA
- ◆ Wastewater Collection System Model Update, Castro Valley Sanitary District, Castro Valley, CA
- ◆ Wet Weather Collection System Model Development and Calibration, Rodeo Sanitary District, CA
- ◆ Collection System Modeling, Rodeo Sanitary District, CA
- ◆ Technical Review of Plant Capacity Management Alternative Study, Central Marin Sanitation Agency, CA
- ◆ Master Planning Model Selection, City of Roseville, CA
- ◆ Collection System Master Plan and Overflow Analysis, City of Benicia, CA
- ◆ Wastewater Master Planning, City of San Jose, CA
- ◆ Collection System Master Planning, City of Winters, CA
- ◆ Trunk Sewer Master Planning, City of Hillsborough, CA
- ◆ LAVWMA System Capacity and Storage Assessment, Dublin, CA

Pumping and Piping Studies and Designs

- ◆ Hydraulic Analysis of 30 MGD Bypass Conditions in Flow Measurement Structure, Sacramento, CA
- ◆ Hydro-Pneumatic Systems Review Technical Support, Novato, CA
- ◆ Water Supply, Treatment, Storage and Pressure Study, Central Valley Foothills, CA
- ◆ Low Water Pressure Investigation, Sacramento HOA, Sacramento, CA
- ◆ Quarry Lake Emergency Water Delivery System Technical Review, Purissima Hills Water District, Los Altos Hills, CA
- ◆ Wastewater Disposal Pipeline Hydraulics Peer Review, Cupertino, CA
- ◆ Pipeline Transient Pressure Analysis, Clayton, CA
- ◆ Low Water Pressure Investigation, Home Owners Association, Brisbane, CA
- ◆ Roddy Ranch Pump Station Reliability Study, Brentwood, CA
- ◆ Lockwood Siphon Rehabilitation Study, Contra Costa Water District, CA
- ◆ Untreated Water Pipeline Routing Study, Zone 7 Water Agency, Alameda County, CA
- ◆ Altamont Water Treatment Plant Siting Study, Zone 7 Water Agency, Alameda County, CA

- ◆ Multi-Purpose Pipeline Routing Study, Contra Costa Water District, CA
- ◆ Moorpark Water Pump Station Predesign, Simi Valley, CA
- ◆ Well and Membrane Treatment System, Jordan Valley Water Conservancy District, UT
- ◆ Land Disposal Facility for Wastewater Effluent, Washoe County, NV
- ◆ Pipeline Protection at Creek Crossing, Alameda County, CA

Hydraulic Analyses and Studies

- ◆ Contra Costa Canal Hydraulic Study, Contra Costa Water District, Concord, CA
- ◆ South Bay Aqueduct (SBA) Hydraulic Capacity Study, Zone 7 Water Agency, Alameda County, CA
- ◆ Hydraulic Analysis of the Upper Diamond Fork Project, Central Utah Water Conservancy District
- ◆ Collier Canyon Creek CLOMR, Livermore, CA
- ◆ Agua Fria Creek Relocation Analysis for Warren Avenue Grade Separation, Fremont, CA
- ◆ San Pablo and Wildcat Creeks Floodplain Assessment, San Pablo, CA
- ◆ Hydraulic Analysis of Water Storage Tank Failure, Simi Valley, CA
- ◆ Filter Bed Flow Distribution Hydraulic Analysis, San Francisco, CA
- ◆ Fish Ladder and Water Plant Intake Predesign, San Jose, CA

Bridge and Culvert Hydraulic Studies

- ◆ Road 80 Widening, Tulare County, CA
- ◆ Dublin Canyon Road Bridge Replacement, Pleasanton, CA
- ◆ Bollinger Canyon Road Bridge, San Ramon, CA
- ◆ San Pablo Creek and Wildcat Creek Floodplain Assessment, San Pablo, CA
- ◆ Golf Club Road Bridge, Pleasant Hill, CA
- ◆ First Street Bridge Replacement, King City, CA
- ◆ SR99 Bridge at Big Chico Creek, Chico, CA and Avenue 360 Culverts near Tulare, CA

Groundwater

- ◆ Subsurface Drainage Investigation, Home Owners Association, Marin County, CA

- ◆ Subsurface Drainage Investigation, Home Owners Association, San Francisco, CA
- ◆ Subsurface Drainage Investigation, Private Home, Oakland, CA
- ◆ Oakwood Lake Groundwater Modeling Technical Review, Manteca, CA
- ◆ Groundwater Assessment for the Broadview Water District, Firebaugh, CA
- ◆ Groundwater Management Plan, Stanislaus and Tuolumne Rivers Groundwater Basin Association, Modesto, CA
- ◆ Groundwater Supply Assessment, City of San Diego, CA

Water System Master Planning

- ◆ Hydraulic Modeling Support for PPWTP Upgrades and Ozonation Project, Zone 7 Water, CA
- ◆ Brisbane Water Master Plan Update, Brisbane, CA
- ◆ Zone 7 Water System Model Update and Drought Operation Review, Alameda County, CA
- ◆ Intermediate Pump Station Model Review, Zone 7 Water, CA
- ◆ Water System Model Benchmarking Study, Zone 7 Water, CA
- ◆ Water Distribution Fire Flow Modeling, Burlingame, CA
- ◆ IDSE Extended Period Simulation Modeling, Burlingame, CA
- ◆ Martinez Water Master Plan Update, Martinez, CA
- ◆ Fire Flow Evaluation, Burlingame, CA
- ◆ River Islands at Lathrop Preliminary Water Storage and Distribution System Assessment, CA
- ◆ Winters Water Distribution Master Plan, Winters, CA
- ◆ Burlingame Water Distribution Master Plan, Burlingame, CA
- ◆ Zone 7 Water Distribution Master Plan, Alameda County, CA
- ◆ Water Distribution Master Plan, Mount Prospect, IL
- ◆ Water Distribution Master Plan, Coon Rapids, MN
- ◆ DERWA Recycled Water System Analysis, CA
- ◆ Recycled Water Distribution System Analysis, Lathrop, CA

Sediment Transport Analyses and Studies

- ◆ South Bay Aqueduct Expansion Sediment Study, Zone 7 Water Agency, CA
- ◆ Technical Review of San Benito and Pajaro River Sediment Studies, Pajaro River Watershed Flood Prevention Authority, CA
- ◆ Crystal Springs Reservoir Sedimentation Basin Predesign, San Francisco, CA

- ♦ San Francisco Bay Bridge Storm Water Sediment Study, Caltrans District 4, CA
- ♦ Assessment of Nonuniform Sediment Size Movement in Streams, US Geological Survey, CA

Water Resources Studies

- ♦ Water Resources Section of the City General Plan, Petaluma, CA
- ♦ Urban Water Management Plan Update, City of Martinez, CA
- ♦ Alameda Creek Watershed Salinity Sources Study, Dublin, CA
- ♦ Feasibility Study for Membrane Bioreactor Facility as Water Supply, Dublin, CA
- ♦ DERWA Supplemental Water Supply Study, Dublin, CA
- ♦ CALFED Assistance to DWR, Sacramento, CA
- ♦ Water Supply Master Plan, City of San Diego, CA
- ♦ Watershed Sanitary Survey of Lake Merced, San Francisco, CA
- ♦ Watershed Sanitary Survey of Modesto Reservoir, Modesto, CA

Treatment Plant Hydraulic Analyses

- ♦ Plant Overflow Structure Hydraulic Analysis, Central Contra Costa Sanitary District, CA
- ♦ 3W Water System Distribution Modeling, Central Marin Sanitation Agency, CA
- ♦ Treatment Plant Hydraulic Analysis, East Bay Municipal Utilities District, CA
- ♦ Penitencia Treatment Plant Storage Hydraulic Analysis, Santa Clara Valley Water District, CA
- ♦ Harry Tracy Water Treatment Plant Flow Analysis, San Francisco, CA
- ♦ Pulgas Dechloramination System Hydraulic Analysis, San Francisco, CA
- ♦ Filter Bed Flow Distribution Hydraulic Analysis, San Francisco, CA
- ♦ Plant Capacity Study, Union Sanitary District, Union City, CA
- ♦ Treatment Plant Water Distribution System Improvements, San Jose, CA
- ♦ Wastewater Sampling and Waste Loading Assessment, Sacramento, CA

Treatment Plant Design, Operation and Construction

- ♦ Wastewater Treatment Plant Headworks Design, St. Peters, MO
- ♦ WWTP Operation and Maintenance Manual, Brentwood, CA
- ♦ WWTP Operation and Maintenance Manual, Harrisonville, MO

- ◆ WW Storage Operation and Maintenance Manual, LAVWMA, Dublin, CA
- ◆ Design, Review and Field Services during Construction, WWTP Expansion, Chico, CA
- ◆ Design, Review and Field Services during Construction, WWTP Expansion, Gresham, OR
- ◆ Design, Review, Field, and Inspection Services during Construction, WWTP Expansion, Johnson County, KS