

JAMES A. BIANCHIN, C.E.G., P.G.

Senior Engineering Geologist and Engineering Services Manager



Jim Bianchin is a professional geologist and certified engineering geologist in California and Oregon. He has over 29 years of experience working on difficult and complex public works, critical facility, and large private projects, where creative solutions and thinking “out-of-the-box” are required.

Education

- B.A. Geology, Humboldt State University;
- Post BA Courses in Geology, University of California at Santa Barbara;
- Short Courses: Earth Slope Stability, Seismic Hazards Evaluations, Rock Slope Stability, Liquefaction, Erosion Control, Pipeline Design.

Licenses & Affiliations

- Professional Geologist – California & Oregon;
 - Certified Engineering Geologist – California & Oregon;
 - Association of Engineering Geologists (AEG)
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TECHNICAL CAPABILITES

- .. Pipelines (E' evaluations) and directional drilling/microtunneling/trenchless projects;
- .. Water & wastewater treatment plants, schools, hospitals, and critical facilities;
- .. Shallow and deep foundation systems;
- .. Roadway and bridge studies (materials and foundation reports);
- .. Landslide and slope stability studies;
- .. Rock slope stability and discontinuity evaluations;
- .. Reconnaissance and detailed geologic mapping;
- .. Fault location and paleoseismic studies;
- .. Deterministic and probabilistic seismicity evaluations;
- .. Regional liquefaction evaluations.

PROJECT EXPERIENCE

Relevant Highlights

Jim was the manager of geotechnical services and responsible engineering geologist for the design of the Central Coast Water Authority's components of the Coastal Aqueduct Extension (Phase II) of the California State Water Project. This project included 73 miles of large-diameter flexible pipeline, three 2-million gallon tanks, a 40-million gallon-per-day water treatment plant, a pump station, a scour evaluation of the pipeline crossing of the Santa Maria River, and a microtunnel alignment beneath the Santa Ynez River.

Treatment Plants, Levees and Processing Facilities

City of Fort Bragg Newman Gulch Reservoir Preliminary Studies;
Port Orford Wastewater Treatment Plant; Willows Wastewater Treatment Plant Expansion; Fall River Mills Wastewater Facility Modification;
Coastal Aqueduct Extension (Phase II) California State Water Project;
Polonio Pass Water Treatment Plant;
Santa Barbara El Estero Wastewater Treatment Plant;
Exxon's Las Flores Oil Processing Facility;
Unocal's Platform Irene Oil Processing Facility;
Calleguas Filtration Plant;
Santa Barbara Desalination Facility;
MWD's Jensen Filtration Plant;
Guadalupe Wastewater Treatment Plant;
Camarillo Wastewater Treatment Plant
Redwood Creek Levee
Battle Creek WTP, Nevada
Sutcliffe WTP, Nevada

Pipelines, Tanks, and Pump Stations

City of Redding's North Market St. Force Main HDD project
City of Redding's North Market St. Lift Station
City of Redding's Jenny Creek Sewer Pipeline & Lift Station;
City of Redding's Butte Street Water Pipeline;
Stillwater Business Park Sewer Pipelines, Shasta County, CA;
Coastal Aqueduct Extension (Phase II) California State Water Project;
City of Eureka's Martin Slough Wastewater Conveyance Project;
City of Port Orford's Wastewater Outfall Project;
Nacimiento Water Supply Project;
Whale Rock Pipeline Vulnerability Assessment;
All American Pipeline Project;
Westside Conveyance Pipeline, Santa Barbara;
Exxon Company USA's Las Flores Oil Storage Tanks;
Texaco Transportation Corp's Gaviota Storage Facility;
Carpinteria Valley Water District's Water Storage and Conveyance Project;
Sakhalin Island Feasibility Study, USSR;

School, Educational, Hospital, Critical Facility, & Recreational Projects

Ambrosini School Expansion, Fortuna, CA;
Mercy Medical Center New Parking Structure, Redding, CA;
Mercy Medical Center, New Operating Complex, Mt. Shasta, CA;
Fairchild Medical Center, Critical Care Nursing Facility, Yreka, CA;
Mercy Medical Center, South Parking Lot Failure Study, Redding, CA;
Arcata Schools New Child Care Facility, Arcata, CA; Big League Dreams Sports Complex, Redding, CA; Simpson College Owens Student Services Center, Redding, CA;
U.C. Santa Barbara, numerous new buildings;
Carpinteria Westside Elementary School (new facility);
Carpinteria High School Expansion Project;
Dos Pueblos High School Expansion Project;
Numerous Oxnard School District Improvements;
Cemetery Park Settlement Studies

Landslides, Faults, Liquefaction, Geohazards Assessments, and Mitigation Projects

Exxon Company USA's Corral Canyon Tributary Landslide;
USAF Honda Ridge Road Landslide Stabilization Project;
USAF Pillar Point Tracking Station Landslide and Coastal Retreat Studies;
Aera Engery's Devil's Slide Study;
Whale Rock Pipeline Vulnerability Assessment;
Nacimiento Water Supply Project Vulnerability Assessment;
Honey Lake Paleoseismic Study;
Ventura Fault Paleoseismicity Study;
Malibu Fault Paleoseismicity Study;
Oak Ridge, Red Mountain, Simi-Santa Rosa, Garlock, and Hosgri Fault Location Studies;
San Andreas Fault Study – Palmdale;
Harbor Sanitation District Chetco River Crossing;
Port Orford Sewer Outfall Project
ISP's Lone Highwall
Hopkins Pit Highwall
36 Mine Highwall

Roadway, Transportation, Airport, and Bridge Projects

Stillwater Creek Bridges, Shasta County;
Caltrans Highway 299, Buckhorn Grade Realignment Project, Phase I;
Caltrans Highway 89, Lake Britton Bridge;
Caltrans, San Francisco to Oakland Bay Bridge Replacement Project;
Caltrans Highway 5, Gibson Maintenance Facility Expansion;
Klamath Falls International Airport Taxiway F Improvement Project;
Shasta County Old 44 Bridge Replacement
Caltrans Highway 154 Realignment;
Caltrans Highway 1 Realignment;
Santa Rosa Road Realignment Project;
USAF Honda Ridge Road Stabilization Project;
Exxon USA's Santa Ynez Development Emergency Access Road
Susanville Airport (Lassen County)
Redding Municipal Airport (three studies) (Redding, Shasta County)
Oregon Air National Guard – 173rd Fighter Wing, Kingsley Field (Klamath County, Oregon)
Little River Airport (Mendocino County)
Round Valley Airport (Mendocino County)
Benton Airport (Redding, Shasta County)
Lampson Field (Lake County)