



STEPHEN WATRY

Geotechnical Engineer, Engineering Geologist

California Civil Engineer No. 43153

California Geotechnical Engineer No. 2238

California Professional Geologist No. 4050

California Engineering Geologist No. 1260

EDUCATION

M.S., Geology, California State University, Los Angeles, 1992

B.S., Geology, University of California at Los Angeles, 1979

PROFESSIONAL ORGANIZATION

Member, Association of Engineering Geologists

Member, American Society of Civil Engineers

Education Committee Member, American Society of Civil Engineers, Los Angeles Section, 1988 - 1990

Reviewer, American Society of Civil Engineers, Journal of Geotechnical and Geoenvironmental Engineering, 2002 - 2003

ACCOMPLISHMENTS

Geologic investigations for public agencies

Investigation and mitigation of large bedrock landslides

Geologic peer review for municipal agencies

Landslide repairs and foundation underpinning investigation projects

Residential distress causation studies

REPRESENTATIVE EXPERIENCE

Upper Sand Creek

Flood Control Basin and Dam Contra Costa County, CA

Project geologist providing geotechnical consulting services to design and construct a new 1000 acre foot flood control basin in Antioch, California. The facility includes a 40 foot tall earth dam and a 15 foot tall saddle dike embankment. A large ancient landslide on the right abutment of the planned dam was investigated and analyzed to determine its potential impact on the dam and basin. Work includes providing field exploration services, geologic and geotechnical analyses of the ancient landslide, and assistance in the preparation of construction plans and specifications.

UCLA faculty housing

Westchester, CA

Project engineer/geologist during exploration, review, and rough grading of 80-lot development located on top of 100-foot-high sand bluffs. Performed slope stability analyses to determine stability of natural slopes and fill slopes that were constructed up to 80 feet in height. Mapped areas of erosion and surficial failures, observed grading operations and acted as liaison between developer, building officials, and grading contractor.

Orinda City Offices

Orinda, CA

Project engineer/geologist for construction of a LEED certified municipal building developed on a hillside property. Work included subsurface investigation, preparation of preliminary and design level geotechnical report, iterative consultations with structural engineer and architect regarding foundation layout, and geotechnical observations during construction.

Lafayette Landslide Remediation

Lafayette, CA

Project geologist during investigation of a large landslide that required remediation before the site could be developed. Work included defining the landslide surface and subsurface configuration through a combination of aerial photo review, field mapping, downhole-logging of large diameter borings, test pits and trenches. Samples were obtained from the test excavations for stability analyses of the landslide which were utilized to prepare a remediation plan.

Altamont Landfill Expansion

Altamont Pass, CA

Project engineer/geologist during investigation for large landfill expansion. Duties included slope stability analyses to assess the stability of 17 landslides within the proposed landfill expansion. Field exploration included mapping, hollow-stem auger borings, large-diameter borings, air-rotary core borings, test pits, and trenching. Slope stability analyses were performed using UTEXAS 3.

Caltrans Bridge Evaluations

Shasta and Santa Cruz Counties, CA

Project Engineer during evaluation of fifteen existing bridges to determine the capacities of the existing bridge foundations, primarily in regards to geotechnical and geologic issues, in order to provide geotechnical design parameters to the bridge engineer for seismic retrofit of the bridges. Duties included review of foundation reports and as-built plans for the bridges, a site observation of the bridges and site conditions, the determination of soil parameters to ascertain the bearing and lateral capacities of the existing foundations and analyses of the soil and bedrock conditions at the bridge foundations to ascertain the potential for liquefaction or seismically induced slope instability.

Amarillo Beach landslide

Malibu, CA

Project geologist of two sites in the active Amarillo Beach landslide, which covers 2.5 acres within seven beach-front lots in Malibu, California. Sites were evaluated using large-diameter borings and backhoe test pits. Analyses were performed to determine the lateral pressures imposed by the landslide. Deepened foundation systems were designed to support the structures and to resist the lateral loads imposed by the landslide.

Seaborg Library and Learning Center

Lafayette, CA

Project geologist/engineer for geotechnical and foundation investigation for \$30 million municipal library and research center. Project includes two stories of below ground parking and includes retaining walls and foundation son drilled piles and conventional footings.