

Steven P. Viani, P.E
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Education and Specialized Training

BS Civil Engineering, California State University, Sacramento
Graduate courses in Geotechnical Engineering
Continuing education classes in claims avoidance, negotiations and project management
OSHA 40 hour training
USACOE Construction Quality Management Certification

Professional Registrations

Registered Civil Engineer in California, Arizona and Washington
Licensed A, B & Haz. Contractor (RMO Alvia Services Inc)

Employment History

State Water Resources Control Board (2-year assignment with Army Corps of Engineers)-Associate Engineer	(1977-1982)
Kellogg Corporation-Senior Engineer	(1982-1983)
Department of Health Services-Senior Engineer	(1984-1987)
Roy F. Weston, Inc.-Project Director	(1987-1990)
Canonie Environmental Services, Inc.-Western Regional Manager	(1990-1994)
Geo Con Inc.-Western Regional Manager	(1994-1998)
Layne-Christensen Co.-Western Regional Manager	(1998-1999)
BCN Company-Vice President of Operations	(1999-2001)
Donald B. Murphy Contractors Inc.-Regional Manager	(2001-2003)
Private Consulting/Alvia Services Inc	(2003-Present)

Representative Experience

Over the past 40 years, has held senior level positions in construction, consulting and governmental entities. Have managed, directed or performed projects ranging from \$3000 Phase 1 Preliminary Site Assessments to \$20 Million site remediations, including many large and significant environmental and geotechnical construction projects as a direct hire contractor. Have 25 plus years experience in managing business units and design departments with total P+L responsibility and staff management up to 35 people. Have worked nationwide and internationally in Asia and Europe.

Legal, Claims and Defect Oriented Experience

- Developed a remediation plan for the removal of construction debris in Malibu, CA. Project involved the determination of quantity, permitting, construction oversight and closure of parcel containing illegally disposed debris. Los Angeles County and Coastal Commission involvement.
- Developed claim document for high rise hotel in downtown Los Angeles involving directed changes, constructive changes, defective and deficient contract documents, acceleration and significant contractual issues.
- Expert review involving loss of business to legally licensed recycler from unlicensed recycling facility in Long Beach, CA.
- Provided expert review of shoring/scaffolding failure at mid-rise residential/commercial building in San Francisco that was overloaded.
- Provided expert services for water damage and intrusion for single family housing, multi-family housing and businesses involving stucco, windows, roofs, siding from wind-driven rain, expansive soils and mechanical damage.

- Evaluation of understrength pre-cast concrete piles delivered and driven at wastewater treatment plant in San Francisco. Scope evolved into review of concrete strength with coring, testing and removal throughout facility.
- Provide expert services for a fatal accident involving improperly secured construction equipment on a construction site in Northern California.
- Provided expert services, including accident reconstruction of a major fall injury case involving truck loading at an active wastewater treatment facility in the San Francisco area.
- Provided expert witness services for issues related to a subsiding rock retaining wall causing damage to an adjacent dwelling in San Francisco, CA.
- Provided inspection/evaluation of 50+ residential and commercial damaged by a refinery explosion in Utah.
- Provided expert engineering review of construction defects and standard of care associated with sewer lines, water lines, moisture intrusion, land movement, drainage systems, land development, soils testing, residential construction and other civil engineering defects.
- Provided expert witness services for cost and schedule claim by County of Monterey against CM and Prime Contractor involving asbestos containing materials and affected by mold.
- Provide expert witness service for pile driving operations affecting defectively designed and constructed stucco clad public library in LA area.
- Provided expert witness services and court testimony for construction defect case involving expansive soils, construction impacts and water damage to a house foundation in Irvine, CA.
- Provided expert services for construction dispute involving an environmental remediation groundwater collection and storage system constructed at a large refinery facility in New Jersey.
- Provided expert witness services for accident involving multi-party commercial construction site in Auburn, CA involving rolling scaffolding.
- Reviewed remedial measures for condo building in Sacramento affected by water intrusion through roofs, walls and walkways that resulted in mold.
- Provided expert witness testimony for contractual dispute involving adequacy of geotechnical report, differing site conditions and cost to repair for sewer line in Las Vegas, NV.
- Provided expert witness services for issues related to a subsiding rock retaining wall causing damage to an adjacent dwelling in San Francisco, CA.
- Provide expert services to insurance group for major excavation support failure in San Francisco to determine cause and cost to repair caused by differing soil conditions.
- Provide contract review and claims support for steel water reservoir project in Honouliuli, HI affected by delays, changes and differing site soil conditions.
- Provided contract review and cost to complete for a 900 unit military family housing project in Honolulu, HI. Project encountered with numerous changes that required renegotiation of unit prices, payment for acceleration and additional time related overhead.
- Successfully negotiated a \$ 6 million termination for convenience claim for a Superfund site. Developed an estimate of contractor costs and negotiated a fair and reasonable settlement while representing a state government entity. Project required negotiation of an acceleration claim for previous contractor, expert testimony at various court proceedings and presentations to media.
- Prepared and negotiated a changed site conditions, acceleration, directed change, constructive change and defective and deficient contract document change order with the US Army Corps of Engineers for a slurry wall project.
- Developed and negotiated large change orders for quantity increases and changes for design/build environmental remediation projects.

Construction Oriented Experience

- Oversaw construction of large wastewater treatment plants, pump stations, earth-pressure balance and open road header tunnels and box sewers for Federal Government construction program in San Francisco. 12 foot diameter tunnel was 1 mile open face cut using road header and

steel sets and wood lagging prior to permanent liner. Tunnel was constructed using Earth-pressure balance method with steel liner plate prior to permanent concrete liner was then cast.

- Designed and constructed micropile foundation system for elevated transit structure for BART.
- Designed and constructed a micropile supported foundation for Hotel Berry in Sacramento, CA.
- Constructed Administration, Switchyard and Electrical Control steel framed buildings consisting of about 50,000 square feet for a combined-cycle gas fired power plant.
- Designed/built a pre-engineered steel framed maintenance building for major northern California public utility at a wind energy facility.
- Designed and constructed a micropile foundation for a community college administration building in Alameda, CA.
- Designed and built a micropile project for a new state building in Sacramento.
- Designed and constructed micropile foundation system for elevated transit structure for BART.
- Designed and constructed a micropile supported foundation for Hotel Berry in Sacramento, CA.
- Designed and built a micropile slope stabilization project for the emergency support of a sewer main sliding into a creek in Thousand Oaks.
- Constructed slope stabilization for a hydro-electric powerhouse in the Sierra Nevada Mountains involving rock anchors, soil nails, drains and shotcrete.
- Constructed projects using ground anchors, tiebacks, compaction grouting, chemical grouting, jet grouting, soil mixing, shotcrete, micropiles, driven piles and sheet piles, often under design/build contracts.
- Constructed soil nail, soldier pile and wood lagged excavation support projects for building excavations and soil removal projects.
- Constructed numerous slurry wall projects for seepage control using soil-bentonite, soil-cement-bentonite, soil-cement-bentonite-fly ash and soil-attapulgitite for groundwater control on civil and environmental projects. Size of barrier walls ranged from 100,000 sf to 350,000 sf.
- Constructed ADA upgrade and remodel for US Coast Guard Pacific Strike Force Facility in Novato.
- Investigated, designed and oversaw abatement of asbestos affected state buildings after Loma Prieta earthquake in 1989.
- Managed lead abatement, asbestos abatement, structural repairs and painting for 1400 military housing units at Beale Air Force base.
- Designed and managed asbestos abatement activities for 500,000 square feet of office space for TRW buildings in El Segundo.
- Performed ground improvement projects involving dynamic compaction and vibro compaction/vibro-replacement.

Consulting Oriented Experience

- On contract to provide soils investigation and consulting services to pool contractors in N. Calif.
- Provide consulting and design services for residential and commercial structures affected by fire, wind, structural design deficiencies, impacts, earthquakes and other factors.
- Planning and conceptual design for construction of a multi-waste stream processing center for an industrial waste recycling center in San Diego County, CA.
- Developed geotechnical reports for new housing, including stick-built and manufactured housing throughout California.
- Evaluation of AST's and treatment ponds at oil collection facility in Santa Maria, CA.
- Performed forensic investigations for wastewater treatment plants, schools, commercial buildings and houses for water intrusion damage, expansive soils, presence of mold and construction defects.
- Designed and oversaw abatement of numerous asbestos abatement projects in California.
- Planned and permitted high tech chemical storage and fabrication facilities internationally.

- Developed large scale Phase 1 property transfer program for major renovation of prime San Francisco real estate.
- Performed numerous Phase 1 Preliminary Site Assessments, Remedial Investigations, Feasibility Studies and Corrective Measures Studies using a variety of technologies.
- Assistant author on document concerning repairs and lining UST's.

Remediation and Environmental Experience

- Expert services related to evaluation and removal of UST and AST systems on California.
- Developed a Remedial Investigation /Feasibility Study for the Purity Oil Sales Superfund site in Malaga, CA. Site was former oil processor that had filled onsite ponds and AST's with construction debris containing oil, PCB, lead and asbestos that impacted soil, surface water and groundwater. RI/FS included on-site and off-site investigation, surface water sampling, development of remedial objectives and interim remedial measures.
- Developed a Remedial Investigation/Feasibility Study/Remedial Design for the removal of PCB's and PAH's from a site in Norwalk, CA. Documents were submitted to LAFD and City of Norwalk for approval prior to initiating cleanup. Clean closure granted.
- As part of a construction claim on a 4-story parking structure at San Francisco International Airport, evaluated an earthwork claim concerning the presence of hazardous waste, rock, trash and unsuitable materials and their effect on the project schedule. Further analysis of environmental requirements on illegal filling of wetlands in San Francisco Bay.
- Completed the remediation of the Capri Pumping Services site in East Los Angeles, CA. Site was contaminated with lead, copper, cadmium, solvents and petroleum hydrocarbons. Remediation of this State Superfund site included preparation of a health risk assessment for lead exposure to the surrounding community.
- Oversaw the remediation of the Jibboom Superfund Site in Sacramento, CA. Site was a former scrap yard that had impacted the area with lead, PCB, and hydrocarbons. Extensive air monitoring of the perimeter was performed to limit migration of contaminants. Later designed remediation of inside surfaces at remaining building involving PCB, lead and asbestos.
- Site manager for the McColl Superfund site in Fullerton, CA. Involvement included site sampling of surface and subsurface runoff, construction of site facilities and management of remedial contractors.
- Project manager for the Kyocera facility in Sorrento Valley, CA. Project involved leaking UST solvent tank that impacted groundwater and adjacent wetlands and ponds. Project included on-site and off-site investigation, development of remedial alternatives, permitting and monitoring.
- Remediated a PCP impacted groundwater plume using funnel-gate technology at a wood treating facility. Project involved innovative concept using activated carbon in a passive treatment system.
- Designed and remediated 2500 CY TCA impacted soil inside an existing manufacturing structure in Southern California.
- Designed, permitted and remediated 70,000 CY of TPH impacted soil removal for the closure of the Lockheed C plant in Burbank, California. Clean closure granted.
- Oversaw the design and construction of a groundwater treatment facility for pesticide contaminated soils in Fresno, California as well as excavation of 10,000 CY of pesticide soils.
- Remediated a TCE/TCA impacted groundwater plume using a Deep Soil Mix (DSM) wall that was 65 feet deep and had a surface area of 50,000 SF at an active rail yard.
- Remediated soil impacted with solvents using vapor extraction at the Xerox site in Santa Ana, California. Project included permitting, monitoring and maintenance.
- Constructed a gasoline extraction trench using biopolymer slurry and an HDPE membrane at the port of Los Angeles.
- Developed environmental analysis for portion of former Superfund site that would be removed from Superfund designation to assess impacts on new owners of that piece of property.