

STEVEN P. VIANI, P.E. | ENGINEERING EXPERT

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Civil engineering expert Steve Viani, PE, has decades of hands-on experience that make him prepared to quickly identify and resolve difficult engineering and construction cases, many of which have been settled before reaching a courtroom.

For more than 44 years, Steve's developed his civil engineering expertise through work on a vast number of projects involving water/wastewater treatment plants, soils and landslides, water and fire damage, hazardous waste remediation, asbestos abatement, design and construction management, construction claims and defects, and insurance claims.

Steve has held senior-level positions in construction, consulting and governmental entities. He has managed, directed or performed projects ranging from \$200,000 micropile design/build projects to \$20 million site remediations, including large and significant environmental and geotechnical construction projects as a direct hire contractor. He's managed business units and design departments with total P+L responsibility and a staff of up to 35 people.

In his years on the job, he's performed hundreds of insurance-related inspections, including scope of damage and cost to repair. He's provided expert engineering reviews of construction defects and standard of care associated with sewer lines, water lines, moisture intrusion, land movement, drainage systems, land development, soils testing, structural systems, residential construction, and other civil engineering defects.

Steve keeps his hands dirty working at the direct hire construction company he owns and operates, which has yearly revenue of about \$1 million.

EDUCATION

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

LICENSES

Registered Civil Engineer in California, Arizona, Hawaii and Washington

Licensed A, B & Haz. Contractor (RMO Alvia Services Inc)

EMPLOYMENT

Independent Expert Consultant

(2003-Present)

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

EXPERT WITNESS HIGHLIGHTS

2020	Expert testimony and technical reports, Ammari v. Temurian, LA County Superior Court. BC608980
2019	Deposition, City of Los Angeles, Acting By And Through Harbor Commissioners, Case NC061384
2018	Deposition, Kaplan v. Biltmore Hotel, Case Name: O-028248, LA Superior Court
2018	Deposition, Waldorf v. Schultz, San Mateo Superior Court
2018	Scope of damages and repair methodology, testimony in San Mateo County Superior Court, Peters v. Montgomery Sansome
2017	Technical reports for mediation in Orange County Superior Court, Eng v. Milan Construction, 30-2016-00861627
2017	Declaration against AMCO expert, NKD v. AMCO, Stanislaus County Superior Court, 679681
2017	Declaration, Butte County Superior Court, Thomas Fogarty, et al. v. Glenn A. Rick Engineering, et al., deposition in August 2018
2016	Deposition, Vardanyan v. AMCO, Fresno Superior Court, 11CECGO2112
2015	Deposition, homeowner claim against design engineer and contractor. Gini v. Dixon, Placer County Superior Court, SCV0032617, 2015-2017
2014	Deposition and trial testimony, Lovco v. War. Dispute involving loss of business from unlicensed recycling facility, Los Angeles County Superior Court

- 2014 Deposition, City of Alhambra v. Tait Environmental. City claim of exterior damage from neighboring pile driving operation. Found damage to City building caused by improper design/construction, 2009-2014
- 2013 Deposition in San Mateo County Superior Court, Chang v. Farmers Insurance. Dispute involving insurance coverage, cost to rebuild and toxic contamination
- 2012 Mediation involving vibration damage caused by pile driving, City of SF v. Foundation Constructors, Inc.

WASTEWATER TREATMENT FACILITIES & GROUNDWATER CONTAMINATION

- 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.
- Project manager for 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.
- Project engineer for \$2 million Sony CRT plant's industrial wastewater treatment system in San Diego.
- Expert services for construction dispute involving a \$5 million environmental remediation groundwater collection and storage system constructed at a large refinery facility in NJ.
- Evaluation of \$1 million claim by contractor against City of Santa Barbara and engineer regarding defective and deficient contract documents, as well as standard of care of engineer for a tertiary wastewater treatment plant expansion in litigation.
- Oversaw the design and construction of a \$2 million groundwater treatment facility for pesticide contaminated soils in Fresno, California as well as excavation of 10,000 CY of pesticide soils.
- Assisted with the preparation of counter claim and negotiation of a settlement for the City of LA on the Terminal Island Treatment Plant.
- Designed and built a \$400,000 micropile slope stabilization project for the emergency support of a sewer main sliding into a creek in Thousand Oaks.
- 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 worth over \$1 billion (in current dollars).

SOILS & GEOTECHNICAL REPORTS

- Expert deposition testimony regarding a complex geotechnical technique, jet grouting, its design, uses, and quality control regrading a project at the Port of Los Angeles.
- Direct testimony regarding illegally disposed soil on neighbor's property in Burbank, including determination of volume and cost to remove from steep site with limited access.

- Contract review and claims support for \$2 million steel water reservoir project in Honouliuli, HI, affected by delays, changes and differing site soil conditions.
- Expert witness testimony for contractual dispute involving adequacy of geotechnical report, differing site conditions and cost to install for sewer line in Las Vegas, NV.
- Developed geotechnical reports for new housing, including stick-built and manufactured housing throughout California.
- Expert witness services and court testimony for \$700,000 construction defect case involving expansive soils, construction impacts and water damage to a house foundation in Irvine, CA.
- Determination of cause of 100,000 CY landslide and cost estimate to repair \$40M damages in Issaquah, WA, under insurance litigation.

DESIGN & CONSTRUCTION

- Designed/built a \$500,000 pre-engineered steel framed maintenance building for major northern California public utility at a wind energy facility.
- Designed and constructed micropile foundation system for elevated transit structure for BART in East Bay area.
- Planning and conceptual design for construction of a \$30 million multi-waste stream processing center for an industrial waste recycling center at the La Posta reservation in San Diego County.
- Designed and constructed a \$1.5 million micropile foundation for a community college administration building in Alameda, CA.
- Constructed Administration, Switchyard and Electrical Control steel framed buildings consisting of about 50,000 sq. ft. for a combined-cycle gas fired power plant.
- Designed and built a \$200,000 micropile project for a new state building in Sacramento.
- Expert witness service and depositions for pile driving operations affecting defectively designed and constructed stucco-clad public library in LA area. Saved carrier over \$2 million.
- Designed and constructed a \$400,000 micropile-supported foundation for Hotel Berry in Sacramento.

CONTRACT DISPUTES, CONSTRUCTION DEFECTS & STANDARD OF CARE

- Developed claim document under litigation for high rise hotel in downtown Los Angeles involving directed changes, constructive changes, defective and deficient contract documents, acceleration and significant contractual issues. Contractor received over \$1 million from claim.
- Evaluation and cost to repair for construction defects associated with the Beacon and Metropolitan condominium projects in San Francisco. Owners received sufficient funds to repair defects.

- Cost to complete and termination for default owner against contractor of N. California fast food restaurant under arbitration. Owner received over \$150,000 to repair defects.
- Contract review and cost to complete for a 900-unit military family housing project in Honolulu, HI. Project encountered numerous changes that required renegotiation of unit prices, payment for acceleration and additional time-related overhead. Contractor was able to negotiate new pricing to finish work.
- Expert review of shoring/scaffolding failure due to overloading at mid-rise residential/commercial building in San Francisco.
- Construction defect case involving push piers, Geo-Lock wall anchors, helical piers and carbon armor to repair and level a single-family dwelling in Willows, CA. Owner prevailed with settlement over \$300,000.
- Determined cost to construct soil nail/shotcrete retaining wall as part of expert witness testimony under litigation in Pismo Beach, CA.
- Expert witness services for issues related to a subsiding rock retaining wall causing damage to an adjacent dwelling in San Francisco, CA.
- Expert witness services for issues related to tieback anchors causing damage to an adjacent dwelling in San Francisco, CA. Dwelling owner received a substantial settlement.

ACCIDENT RECONSTRUCTION & INVESTIGATIONS

- Expert witness services for accident at multi-party commercial construction site in Auburn, CA, involving rolling scaffolding.
- Expert services for a fatal accident involving improperly secured construction equipment on a construction site in Northern California.
- 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. Claimant received over \$250,000 settlement from general contractor.

SUPERFUND SITE LITIGATION AND REMEDIATION

- 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 ASTs 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.
- 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.

- Oversaw design development and 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. Designed remediation of inside surfaces at remaining building involving PCB, lead and asbestos.
- Site/project 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.
- Completed 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
- Developed and performed remedial investigations, feasibility studies, remedial designs and remedial work plans for groundwater and soil treatment projects. Values ranged from \$300,000 to over \$1.5 million.
- Developed environmental analysis for portion of former Superfund site that was to be removed from Superfund designation to assess impacts on new owners of property.

HAZARDOUS WASTE REMEDIATION

- Remediated soil impacted with solvents using vapor extraction at the Xerox site in Santa Ana, California. Project included permitting, monitoring and maintenance.
- 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.
- 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.
- 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 sq. ft. at an active rail yard.
- Developed a Remedial Investigation/Feasibility Study/Remedial Design for the removal of PCBs and PAHs from a site in Norwalk, CA. Documents were submitted to LAFD and City of Norwalk for approval prior to initiating cleanup. Clean closure granted.
- Developed a remediation plan for removal of construction debris in Malibu, CA, under court order. Project involved the determination of quantity, permitting, construction oversight and closure of parcel containing illegally disposed debris and involvement of the Los Angeles County and Coastal Commission.
- Designed and remediated 2,500 CY of 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.

ASBESTOS ABATEMENT

Designed and oversaw numerous asbestos abatement projects in California.

- Investigated, designed and oversaw abatement of asbestos-affected state buildings, including prisons, after Loma Prieta earthquake in 1989.
- Managed lead abatement, asbestos abatement, structural repairs and painting for 1,400 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.
- Expert witness services for cost and schedule claim by County of Monterey against CM and Prime Contractor involving asbestos containing materials and mold.

INSURANCE INVESTIGATIONS & FIRE/WATER DAMAGE

Provided investigation and reporting for approximately 500 insurance claims involving causation, origin, scope of damage and cost to repair for files involving structural damage, water intrusion, earth movement, fire, accidents, tree and auto impact, flooding, wind, mold, construction defects and other causes.

- Inspection/evaluation of 50+ residential and commercial structures damaged by a refinery explosion in Utah.
- 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 at County courthouse.
- Investigated and oversaw repairs to a 45-unit condominium project in Sacramento affected by design and construction defects.
- Provided expert services to an insurance group for major excavation support failure in San Francisco on Spear St. to determine cause and cost to repair damage caused by differing soil conditions from improper design based on poorly written soils report.
- Provided reports, expert review and supervised reconstruction of improperly designed 6,000 sq. ft. residence where design contributed to excessive movement that caused damage to structure.