

JED DOUGLAS, CIH, CSP, PG

Education

BS – Geology

BA – Zoology

Professional Licenses

Certified Industrial Hygienist

Certified Safety Professional

Professional Geologist: California, Oregon, Washington, and Arizona

Specialty Certifications

U.S. Green Building Council LEED® Accredited Professional

Construction Specifications Institute Certified Document Technologist

Mold Remediation Supervisor

Hazardous Waste Operations and Emergency Response (HAZWOPER) 40-Hour Training

HAZWOPER Management and Supervisor Training

Annual 8-Hour HAZWOPER Refreshers

OSHA Confined Space Training

GHD FIRST Emergency Response Management

Federal Emergency Management Agency Incident Command System (ICS-100)

Hydrogen Sulfide Awareness

First Aid/CPR

Transportation Worker Identification Credential (TWIC)

Professional Affiliations

American Industrial Hygiene Association (AIHA), Member

AIHA Northern California Section, Member

AIHA Southern California Section, Member

AIHA Orange County Section, Member

Professional Experience

Mr. Douglas has over 25 years of experience as a senior project manager, health and safety specialist, and technical writer and editor. He has taught technical writing for engineering students at Humboldt State University. He has managed numerous environmental projects involving safety; soil and groundwater investigations and remediation of hazardous constituents; and indoor air quality (IAQ) assessments for physical, chemical, and biological contaminants. He has performed technical review of investigation work plans and reports, corrective action plans, remedial action plans, health and safety plans, job safety and environmental analysis, quality assurance project plans, and sampling and analysis plans.

He has directed, managed, and performed every aspect of various projects, including safety training; IAQ investigations; Leadership in Energy and Environmental Design certification for new construction and renovation; construction management; mold investigations and remediation; asbestos and lead investigations and remediation; chemical and heavy metal investigations and remediation, including underground storage tanks; and, data presentation, interpretation, and reporting. He has many years of experience in preparing proposals, cost estimates, contracts and specifications, office and field safety, data collection and interpretation, field operations and sampling, vertical and horizontal drilling supervision, quality assurance and quality control (QA/QC), team leadership, and staff training, mentoring, and supervision.

His project experience is shown below.

Health & Safety and Industrial Hygiene Services

Indoor Air Quality Mold Investigation, Fort Smith, AR. Mr. Douglas was the project director for an industrial hygiene project involving mold remediation and final air clearance sampling at a private office.

Indoor Air Quality Assessment, El Segundo Unified School District, Los Angeles, CA. Mr. Douglas was responsible for performing an indoor air quality investigation after one of the grade schools reported an unacceptable odor emanating from the auditorium.

Indoor Air Quality Mold Investigation, Kansas City, MO. Mr. Douglas was the project director for an industrial hygiene project involving mold remediation and final air clearance sampling at the City Hall building in Kansas City. The building had a water leak on the 25th floor which resulted in mold growth on several floors of the building.

Indoor Air Quality Investigation, Moses Lake, WA. Mr. Douglas was the project director for an industrial hygiene project involving personal air sampling for methylene chloride at a propellant mixing facility. Other IH services included breathing air quality testing, and a ventilation study for local exhaust ventilation air velocities and flow rates.

Industrial Hygiene Services, Americold, Atlanta GA. Oversight of industrial hygiene sampling at a one-million square-foot food warehouse. Investigation and exposure monitoring for noise, ammonia, hydrogen, lead, sulfuric acid, ethanol, ethyl acetate, isopropyl alcohol, drinking water, and mold.

Indoor Air Quality Mold Investigation, Los Angeles, CA. Performed air sampling for mold spores related to a vacant building with commercial walk-in refrigerators and freezers. Building was being renovated for a new tenant and planned to be utilized for food preparation.

Asbestos and Lead Paint Investigations and Abatement, Various Locations, CA. Performed technical review and CIH oversight for survey and abatement activities. Surveys were conducted for asbestos containing materials, and lead paint, in various grade schools, colleges, and commercially occupied buildings.

Air Assessment for Mold, Union Pacific Railroad, Portland, OR. Performed air sampling for mold remediation clearance to ensure that areas were safe to reoccupy by employees. Prepared report of results for submittal to client.

Industrial Hygiene Investigations, Klamath Trinity Joint Unified School District, Humboldt County, CA. Mr. Douglas provided technical oversight and quality control review for asbestos and lead paint surveys conducted in four grade schools.

Air and Noise Assessment, SIKA-BMI Products, Milpitas, CA. Oversaw personal air and noise sampling for time weighted average results for six employees of the facility. Prepared report of results for submittal to client.

Emergency Response Team Participant, GHD FIRST, Santa Barbara, CA. Participated in the emergency response to the crude oil release from a ruptured pipeline. Responsible for health and safety oversight of a team of cleanup workers.

Private Client, Arcata, CA. Mr. Douglas directed the investigation and remediation of an elemental mercury release at a former physician's office. The scope of work included indoor air quality testing and abatement contractor oversight.

MRSA Investigation, Eureka, CA. Mr. Douglas was responsible for managing a bacteriological investigation at an evicted drug dealer's residence. Sampling, analysis and reporting was performed for Methicillin-resistant *Staphylococcus Aureus*.

Indoor Air Quality Assessment, Mad River Hospital, Arcata, CA. Mr. Douglas was responsible for managing an indoor air quality investigation after the hospital reported an employee became ill from an unknown source.

Lawrence Berkeley National Laboratory, Berkeley, CA. Directed investigation of sampling in the air handling system to determine cause of excessive corrosion by multiple constituents of concern. Performed oversight of air sampling and laboratory data interpretation.

Indoor Air Quality Assessment, Humboldt State University, CA. Directed investigation of breathing zone air quality for employees of the welding and sculpture labs. Included personal, area and background sampling for multiple constituents of concern.

Pacific Gas & Electric, Humboldt Bay Power Plant, Eureka, CA. Project Consultant. Performed technical review and quality control for investigation, remediation and disposal of asbestos containing materials; surface coatings containing heavy metals and polychlorinated biphenyls; universal waste; petroleum hydrocarbons; and dredged sediments. Constituents of concern were typically also radioactive. Prepared site specific health and safety plans, sampling and analysis plans, and chemical inventory disposal classifications.

Noise Study, Humboldt Trap & Skeet Club, McKinleyville, CA. Performed a noise investigation at the club's facility as part of the permitting process for the Club's expansion plan. Presented results to the Humboldt County Planning Department and the California Coastal Commission to assist with the successful completion of the development permit process.

Indoor Mold Investigations, Various, CA. Directed mold investigations at residential and commercial buildings in Northern California. Work included building material sampling and air sampling for viable and non-viable mold spores, including data interpretation and report preparation. Projects also involved post-abatement confirmation sampling.

LEED Certification Air Quality Testing, Winzler & Kelly Office Renovation, Eureka, CA. During the remodeling of a former furniture warehouse into an office building, Mr. Douglas performed indoor air quality testing to acquire LEED certification credit. He also assisted with research and credit application completion for other LEED certification credits related to facility siting, parking, and access to municipal services. The facility ultimately achieved LEED Gold certification.

Safety and Construction Management

Construction Manager & Safety Manager, Land's End, Golden Gate National Recreation Area, San Francisco, CA. Mr. Douglas was the Construction Manager and Site Safety Manager for the completion of a new visitor center with a multi-tiered parking lot on the hillside of the Golden Gate National Recreation Area, overlooking the historical Sutro Baths. The project involved interaction with two governmental agencies providing funding, the Golden Gate Conservancy and the National Park Service. Construction involved sensitive habitat protection, a complex retaining wall involving drilling and emplacing vertical concrete piers to stabilize the hillside, green technology storm water drains, and a rubberized recycled material bicycle path.

Construction Manager & Safety Manager, Myers Flat Mutual Water System, Myers Flat, CA. Mr. Douglas was responsible for construction management and Site Safety during the installation of a new water transmission system. The project included oversight of vertical drilling for installation of a new 8-inch diameter stainless steel cased municipal drinking water well, and horizontal directional drilling for installation of a new 10-inch HDPE water line. The directional drilling included boring beneath two on-ramps, State Highway 101, and through a hard rock hillside, with the installation of 12-inch HDPE sleeves beneath the highway and ramps. The municipal well install included a 48-hour aquifer test and permanent submersible pump placement.

Site Safety Officer and Health & Safety Office Representative, GHD Eureka Office, Eureka, CA. Designated as the site safety officer for the majority of environmental projects managed from the Eureka office. As office safety representative, performed annual ergonomic evaluations for 40+ employees; conducted quarterly office health and safety compliance audits; prepared safety topics for monthly staff meetings; and assisted with various safety items.

Site Safety Officer and Competent Person, Numerous Projects in Various Locations. Designated as the Site Safety Officer and Competent Person for the majority of projects throughout his career, Mr. Douglas has prepared, reviewed, and approved Site Specific Health and Safety Plans, Job Safety and Environmental Analyses, emergency response plans, and overseen numerous contractors performing excavation and construction services.

Environmental Project Management

Senior Geologist, Boulevard Border Patrol Station New Drinking Water System, Boulevard, CA. Mr. Douglas was responsible for permitting the new drinking water system (non-transient, non-community water system) at an under construction border patrol station near the Mexican border. Permitting with the California Department of Public Health (CDPH) took approximately 12 months and included completing the DWSAP (Drinking Water Source Assessment and Protection) Program utilizing the CDPH issued TurboSWAP software. Additional tasks included submittal review for the drilling, construction, development, and testing of three new groundwater supply wells drilled to depths between 560 and 810 feet.

Various Environmental Services, Lake County Public Works, Northern, CA. Mr. Douglas was responsible for managing emergency action involving demolition of two unpermitted earthen dams at a former mercury mine. Included design and installation oversight of erosion control features to mitigate potential dam collapse and flooding impacts due to seasonal precipitation.

Well Installation, Lake County Special District, Northern, CA. Mr. Douglas was responsible for design and installation of a replacement municipal well. Included drilling supervision, geophysical logging of the pilot borehole, installation of an observation well, well construction supervision,

abandonment of the pre-existing unsealed municipal well, contractor coordination, and oversight of well development and aquifer testing.

Landfill and UST Investigation, City of Ten Thousand Buddhas, Ukiah, CA. Mr. Douglas managed the investigation and sampling of a former landfill investigation related to the former incinerator operation at the Mendocino State Hospital. Also managed to subsurface investigation for former and existing out of service USTs.

Illegal Landfill Investigation, Honeydew, CA. Senior Project Manager. Performed oversight of environmental investigation and cleanup of an illegal landfill in Southern Humboldt County.

LEED Certification Credit Assistance, LA Fitness Facility, San Jose, CA. During the construction of a new fitness center, Mr. Douglas assisted with completion of various LEED certification credits.

Former U.S. Army Base Fort Ord, Monterey, CA. Project Geologist. Mr. Douglas performed oversight of landfill capping activities and lead removal activities at this former military base. Also collected air samples for airborne contaminants including dust and heavy metals, and soil and groundwater samples for environmental monitoring. Prepared reports including interpretation and presentation of laboratory analytical data.

Soil Investigation, California Department of Transportation, Half Moon Bay, CA. Project Geologist. Conducted a field investigation for petroleum hydrocarbon contamination as part of a soil investigation at a former private landfill. The scope of work included trenching, lithologic logging, soil sampling, and methane monitoring under the approval of the San Mateo County Department of Health.

Big Lagoon Water Quality Program, Big Lagoon Rancheria, CA. Project Director. Managed the surface and groundwater quality program for the Rancheria. Periodic testing of surface water and groundwater for algal, bacterial, and physical contaminants related to Rancheria septic usage and offsite sources.

Water Supply Test, Kelseyville, CA. Project Manager. Evaluated hydrogeological characteristics of area; prescribed methods and evaluated results of continuous pump test. Calculated aquifer characteristics, assisted with pump selection and reported on results of findings.

Water Supply Observation Well, Hidden Valley Lake, CA. Project Manager. Performed observation well logging, and supervised development and testing of existing municipal supply well based on geophysical data, previous production results and lithologic logs.

San Francisco Federal Building, San Francisco, CA. Senior Geologist. Mr. Douglas was part of an engineering team involved in the inspection, planning, design, and construction oversight of a replacement emergency generator project involving removal of an existing diesel underground storage tank and installation of a new UST.

Underground Storage Tanks (USTs)

Operator, Various Facilities, CA. Mr. Douglas was certified as a designated UST operator for 8 years. He performed UST system inspections for regulatory compliance purposes at facilities throughout Northern California.

Avis Rental Car UST/AST Inspections, California, Oregon. Senior Geologist. Mr. Douglas was responsible for field inspection services at numerous rental car facilities throughout California and

Oregon. Performed inspections of USTs and ASTs for regulatory compliance, and for preparation of Spill Prevention Control and Countermeasure Plans.

C Renner Petroleum, Crescent City, CA. Mr. Douglas directed the subsurface investigation and groundwater sampling program for an operating bulk plant with former leaking underground and above ground fuel tanks. Scope also included preparation of a Remedial Action Plan to move the site toward case closure.

San Bernardino City Unified School District, San Bernardino, CA. Project Geologist. Mr. Douglas performed quality control for the California Department of Toxic Substances Control oversight of surface and subsurface soil investigation and remediation at former residential properties slated for construction of school buildings.

San Francisco Unified School District, San Francisco, CA. Project Geologist. Mr. Douglas performed quality control for the California Department of Toxic Substances Control oversight of investigation and remediation of lead in imported soil placed on school grounds.

Corridor Study Environmental Assessments, Various, CA. Project Consultant. Mr. Douglas was responsible for implementing and overseeing Phase I Environmental Site Assessments for various corridors up to eight miles in length. Corridor studies supported projects including pipeline installation, pedestrian/bicycle paths, roadway and intersection improvements, and rail with trail.

Former Arcata Community Recycling Center/Former Petroleum Bulk Plant Environmental Assessment, Arcata, CA. Project Manager. Mr. Douglas was responsible for assisting the new property owner with environmental issues related to the operations of a former recycling center and former petroleum bulk plant. Duties included interfacing with regulatory agencies and responsible party (major oil company) to ensure appropriate and timely implementation of investigation and remedial measures.

Hillwood Investment Properties Phase I Environmental Site Assessments, Southern California. Mr. Douglas was responsible for managing multiple Phase I Environmental Site Assessments performed to the American Society for Testing Materials Standard E1527-13. The assessments were performed at various commercial/industrial properties for the purpose of purchase or lease for redevelopment. Projects were typically performed on a short turn around schedule in order to facilitate property transactions or tenant selection.

U.S. Department of Veterans Affairs, Veterans Health Administration, Phase II Environmental Site Assessment, Yountville, CA. Project Geologist. Mr. Douglas was responsible for performing a soil sampling event to collect and analyze soil samples in the crawl spaces beneath the building to assess for the presence of chemical contaminants. The investigation results were reported to support the proposed renovation of the building.

U.S. General Services Administration, 50 UN Plaza Federal Building, UST Removal, San Francisco, CA. Project Geologist. Mr. Douglas was responsible for compliance, specifications preparation, and health and safety during the removal of two fuel USTs located in the basement of the building. The USTs were partially buried in a below street level area of the building.

Former Eel River Sawmill Brownfields Assessment, City of Rio Dell, CA. Project Manager. Mr. Douglas was responsible for implementing a \$350,000 U.S. Environmental Protection Agency (U.S. EPA) Brownfields assessment grant at a former 45-acre sawmill. Grant activities included Phase I and II site assessments; a sampling and analysis plan; community outreach; a remedial action plan; and, American Recovery and Reinvestment Act (ARRA) reporting.

Humboldt Bay Forest Products UST, Investigation, Fields Landing, CA. Project Manager. Mr. Douglas was responsible for taking over the environmental investigation and cleanup process from a previous consultant. Performed oversight of a groundwater sampling event and report preparation, and development of a Remedial Action Feasibility Study evaluating one passive and three active remedial options. Brought the client back into good standing with the regulatory agency overseeing the case and with the California UST Clean-up Fund. Oversaw the development of a Remedial Action Plan and implemented High Vacuum Dual Phase Extraction remediation to clean-up the site.

Brownfields Phase I and Phase II ESAs, Humboldt County Economic Development Department, Redway, CA. Mr. Douglas managed this project involving a Phase I Environmental Site Assessment at a vacant parcel in Redway, CA. Recognized Environmental Conditions included the presence of a former vehicle storage yard, which historically occupied the property for approximately 20 to 25 years. This project included the preparation of a Sampling and Analysis Plan (SAP) for the collection of shallow soil samples at the site. The SAP is currently under review by the USEPA, and the Phase II sampling will be implemented upon receipt of approval.

Various UST Investigations, Humboldt County Department of Public Works, Humboldt County, CA. Mr. Douglas was responsible for project management of 12 UST investigation and clean-up sites. Sites included Phase II and Phase III activities such as conducting subsurface investigations and periodic groundwater sampling events, preparing work plans, subsurface investigation reports, corrective action plans, performing feasibility studies, remedial system design and implementation of remedial action. Eleven of these sites have received environmental case closure.

School UST Investigations, Southern Humboldt Unified School District, Humboldt County, CA. Mr. Douglas managed two UST investigation and/or remediation projects at the South Fork High School and the Whitethorn Elementary School. Both projects have received regulatory case closure.

Subsurface Investigation, Hayes Estate, Eureka, CA. Mr. Douglas took over project management of a 20-year long subsurface investigation and remediation case at a private residence where a leaking UST had been present. He was successful in achieving regulatory case closure by preparing a Conceptual Site Model and showing that the site conditions met the requirements of the State Water Resources Control Board Low Threat Case Closure Policy.

UST Cleanup Fund, Various Locations, CA. Mr. Douglas has managed numerous USTCF claims, and has successfully achieved admission of new claimants, reimbursements for Priority D claimants, budget category changes, and won appeals to reimburse previously declared ineligible charges.

UST Investigation, Ocean View Cemetery, Eureka, CA. Mr. Douglas managed a UST removal/subsurface investigation at the cemetery, resulting in environmental case closure.

UST Investigation, Timmons Ranch, McKinleyville, CA. Mr. Douglas managed a UST removal/subsurface investigation at the ranch, resulting in environmental case closure.

Subsurface Soil Investigation for Foster Avenue Extension, City of Arcata, CA. Mr. Douglas managed a subsurface investigation at a former lumber mill where a UST had been present within the proposed new street alignment.

Subsurface Investigation, Former Jackson's Garage, Blue Lake, CA. Mr. Douglas took over project management of a 10-year long subsurface investigation and remediation case at a former service station where a leaking UST had been present. He was successful in achieving regulatory case closure by preparing a Conceptual Site Model and showing that the site conditions met the requirements of the State Water Resources Control Board Low Threat Case Closure Policy.

SWPPP Preparation, Arcata Scrap and Salvage, Arcata, CA. Mr. Douglas directed the preparation and implementation of a Storm Water Pollution Prevention Program (SWPPP) to bring the salvage yard into compliance with the Regional Water Quality Control Board.

Groundwater Investigation, California Department of Transportation, Trinidad, CA. Mr. Douglas managed a groundwater investigation related to a recreational vehicle sewage dump station at the Northbound Highway 101 rest area. Reports submitted to the North Coast Regional Water Quality Control Board kept the rest area in regulatory compliance.

Subsurface Investigation, Jukic Property, Crescent City, CA. Mr. Douglas managed a subsurface investigation at a private residence where the former owner did not disclose the presence of an UST, which was subsequently removed and determined to have impacted the existing domestic water well.

Soil and Groundwater Investigation, Barclay's Business Credit, Lathrop, CA. Mr. Douglas performed fieldwork for a soil and groundwater investigation involving mud-rotary installation of a 120-foot, double-cased, groundwater monitoring well into the third aquifer to investigate potential solvent contamination from a neighboring military facility.

Soil and Groundwater Investigation, Rosenberg Family Fund, San Francisco, CA. Project Geologist. Mr. Douglas performed the field investigation for petroleum hydrocarbon contamination as part of a soil and groundwater investigation at a former gasoline station. The scope of work included drilling four borings and installing a groundwater monitoring well under the approval of the City and County of San Francisco, Department of Health.

Asbestos Survey, Confidential Client, Corte Madera, CA. Project Geologist. Mr. Douglas conducted an asbestos-containing materials survey for a retail business in accordance with Asbestos Hazard Emergency Response Act (AHERA) protocol. The survey included identification of homogeneous sampling areas, sample collection and documentation, and report preparation.

Mead Clark Groundwater Remediation, Santa Rosa, CA. Mr. Douglas was Project Geologist for the operation of the remedial system, data collection, data evaluation, routine reporting and coordination.

Wiggins Enterprise UST Remediation, Rohnert Park, CA. Mr. Douglas was Project Geologist for this project which assessed the project's site conditions and negotiated with the County and oversight agencies to eliminate unneeded assessment steps that were delaying the remediation program.

City of San Pablo Corporation Yard UST Remediation, City of San Pablo, CA. Mr. Douglas was Project Geologist for this project which consisted of evaluating the remedial action plan and the site remedial efforts. The installed system required discharge permits from the BAAQMD and the local sewer. Performed routine reporting. The project team successfully received reimbursement from the USTCF for its work, as well as for claims previously denied from the former consultant.

Wiggins Enterprise UST Remediation, Rohnert Park, CA. Mr. Douglas was Project Geologist for this project which assessed the project's site conditions and negotiated with the County and oversight agencies to eliminate unneeded assessment steps that were delaying the remediation program.

Press Democrat Fleet Fueling Station UST Removal, Rohnert Park, CA. Mr. Douglas was Project Geologist for this project which included all aspects of project completion including tank removal, well installation, groundwater sampling and reporting, project management and agency negotiations

for the closure of a fleet fueling facility at the Press Democrat. The project includes the decommissioning and removal of the groundwater wells as part of the site closure.

City of Rohnert Park Corporation Yard UST Investigation, Rohnert Park, CA. Mr. Douglas was Project Manager for the management and implementation of various investigative aspects of former leaking underground storage tanks used for gasoline and diesel. Project work has included the completion of quarterly groundwater monitoring and a soil and groundwater investigation for evaluating remaining contaminant levels.

Various Environmental Services, SIMS-LMC, Redwood City, CA. Mr. Douglas supervised subcontractors on an underwater dredging project in Redwood Creek to remediate soil contaminated with heavy metals. The project included government agency permitting, coordinating fieldwork schedules, field-truthing wastewater discharge lines, overseeing diver directed vacuum dredging techniques, supervising confirmation sediment sampling, and directing waste management and disposal operations.

Various Environmental Services, Sabek, Inc., Morgan Hill, CA. Mr. Douglas managed environmental services at a former service station owned by a small private firm. Projects included UST removal and over excavation, monitoring well installation, technical report review, corrective action planning, regulatory agency interaction, cost proposals, and invoice preparation.

UST Investigation, Georgia-Pacific Corporation, Foresthill, CA. Project Geologist. Mr. Douglas performed a field investigation for petroleum hydrocarbon contamination at a UST location. The scope of work included drilling five borings and installing groundwater monitoring wells under the approval of the Placer County Department of Health. He supervised over-excavation of two former UST locations and destruction of groundwater monitoring wells and performed verification field analytical testing and sampling of representative soil samples. The project included construction of a bioremediation cell for more than 1,000 cubic yards of diesel-contaminated soil, inoculating the soil with hydrocarbon-digesting microbes, and maintaining the cell for a 10-month period. He also managed the quarterly groundwater sampling and reporting program for 2 years.

Groundwater Investigation, Crown Cork & Seal, Pittsburg, CA. Project Manager. Supervised field operations and trained staff for an aquifer pump test on three groundwater extraction wells to provide data for extraction system design.

Various Environmental Services, Shell US, ConocoPhillips, Phillips 66 Company, Tosco Corporation, Northern CA. Project Geologist. Mr. Douglas was responsible for managing environmental issues at more than 35 retail service stations. He also provided technical assistance on environmental services at over 200 service stations, and supervised the installation of: groundwater monitoring wells; soil borings; Geoprobe borings; Hydropunch samplers; ozone microsparge points; cone penetrometer tests (CPT); vapor extraction wells; groundwater extraction wells; conductor casings; and piezometers. He oversaw collection of soil and groundwater samples and stratigraphic logging of borings, trained staff personnel in correct field operation techniques, and performed health and safety air monitoring during field investigations. He was also responsible for preparing work plans, health and safety plans, traffic control plans, subsurface investigation reports, remedial action reports, corrective action plans, site conceptual models, feasibility studies, and risk-based corrective action plans; interacting with regulatory agencies and client representatives; reviewing technical reports prepared by staff; and preparing cost estimates and completing bid packages. He organized and tracked time-critical elements for investigation and remediation projects at numerous sites and oversaw the acquisition of permits for drilling, construction, and public right-of-way encroachments from City, County, and State agencies.

Various Environmental Services, City of Winters Wastewater Treatment Facility, Winters, CA. Mr. Douglas managed environmental activities, including scope of work development, monitoring well installation, technical report review and editing, geologic cross-sections, regulatory agency interaction, cost proposals, and invoice preparation.

Groundwater Investigation, Teledyne, Inc., Statewide, CA. Project Manager. Mr. Douglas supervised the fieldwork and trained personnel for a groundwater investigation involving installation of a 117-foot groundwater monitoring well using a mud-rotary drilling technique to investigate solvent contamination at a Federal Superfund site. Prepared the cost estimate and remedial action work plan and supervised remediation of soil contaminated with heavy metals at an aircraft products manufacturing facility. Was responsible for supervising an asbestos survey at a 42,000- square-foot former electronics facility and an asbestos survey and lead paint bulk sampling for an approximately 30,000-square-foot facility, including preparation of abatement options and associated costs. Supervised installation of two soil borings completed with nested vapor probes (four in each boring) using rotary-sonic drilling technique, including one boring installed at a 30 degree angle off-vertical to a true depth of 73 feet below ground surface, and the installation of a deep sampling lysimeter, installed at a 30 degree angle off-vertical to a true depth of 30 feet.

Groundwater Investigation, Confidential Client, Santa Rosa, CA. Project Manager. Mr. Douglas supervised CPT and Hydropunch II groundwater sampling as part of a remedial investigation at a former auto dismantling facility to determine depth, soil-bearing resistance, soil friction resistance, pore pressure, pore pressure dissipation, and probe inclination.

Groundwater Monitoring, Myers Container Corporation, Oakland, Emeryville, and Richmond, CA. Project Manager. Mr. Douglas conducted quarterly monitoring and sampling of groundwater and report preparation at two California Superfund sites and one drum reconditioning facility as part of a remedial investigation/feasibility study.

Soil and Groundwater Monitoring, California Department of Transportation, Oakland, San Francisco, and Sacramento, CA. Mr. Douglas managed and performed field investigations for projects at six sites under the lead of the California Department of Toxic Substances Control. The projects involved lithologic logging of more than 1,000 boreholes to depths ranging from 3 to 35 feet below ground surface, collection of representative soil and groundwater samples for analytical testing, collection of lead paint bulk and wipe samples, groundwater monitoring well installation, quarterly monitoring, report preparation, and preliminary endangerment assessments.

UST Investigation, American Building Maintenance Industries, Phoenix, AZ. Project Manager. Mr. Douglas performed the field investigation for petroleum hydrocarbon contamination at a UST location, including scheduling subcontractor removal of a buried 10,000-gallon diesel UST, verification field analytical testing and sampling of representative soil samples, and report preparation. Performed the fieldwork for a former pesticide facility, including soil sample collection, analytical data review, report preparation, and scheduling subcontractors to perform interim measures to inhibit pesticide migration.

Installation of Vapor Extraction Wells, California Department of Transportation, Livingston, CA. Project Geologist. Project involved installation of three vapor extraction wells and set up an extraction unit for a pilot test study to determine the radius of influence of the extraction wells with respect to nearby monitoring wells. Installed eight vapor extraction wells to 45 feet below ground surface and constructed a wellhead manifold system to connect the wells to two 1,000-scfm vapor extraction units designed to remediate gasoline-contaminated soil and operated and maintained the units.

Soil and Groundwater Monitoring, California Department of Transportation, Oakland, CA. Project Manager. Mr. Douglas conducted a preliminary endangerment assessment at a former chemical packaging facility and truck repair location. The scope of work included a soil and groundwater investigation, interior lead wipe sampling of a 20,000-square foot warehouse, and preparing a baseline risk assessment for potential construction worker exposure.

FACE Preparation, Zamaroni Quarry, Santa Rosa, CA. Project Manager. Mr. Douglas prepared a Financial Assurance Cost Estimate (FACE) for a rock quarry. The FACE was prepared according to the California State Mining and Geology Board, Department of Conservation, Surface Mining and Reclamation Act (SMARA), to update the costs associated with a previously prepared a Surface Mining and Reclamation Plan (SMRP).

Various Environmental Services, California Department of Corrections and Rehabilitation, Regions 1, 2 and 3, Statewide, CA. Mr. Douglas has both managed and participated in environmental engineering projects at the following CDCR facilities between 2008 and 2011: Salinas Valley State Prison and Correctional Treatment Facility; California State Prison San Quentin; Folsom State Prison; California State Prison Sacramento; California Institution for Men; and, Mule Creek State Prison.

Various Environmental Services, L&M Renner, Inc. – Renner Petroleum, Humboldt County, CA. Mr. Douglas managed the preparation of Spill Prevention Control and Countermeasure Plans and Hazardous Materials Business Plans for six petroleum storage and dispensing facilities.

Various Environmental Services | California Department of General Services – Real Estate Services Division, Regions 1 and 2, Statewide, CA. Mr. Douglas has both managed and participated in environmental investigations related to leaking USTs for various state operated facilities including state parks under an “on-call” retainer contract. He also worked on several UST investigation sites under the Emergency, Abandoned, Recalcitrant (EAR) Account.