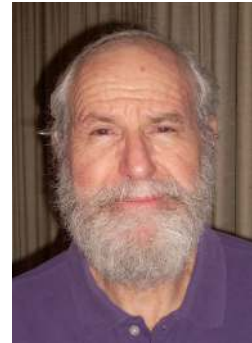


KENNETH H. LISTER, PhD, CEG, CHg

Education

BS – Geology, University of California, Los Angeles, 1967
MS – Geology, University of California, Los Angeles, 1970
PhD – Geology, University of Kansas, Lawrence, 1974



Professional Licenses

Professional Geologist – California, 1987 (No. 4338)
Certified Engineering Geologist – California, 1991 (No. 1581)
Certified Hydrogeologist – California, 1995 (No. 79)
Registered Geologist – Arizona, 1989 (No. 23684)

Professional Affiliations

Geological Society of America (Hydrogeology and Engineering Geology Divisions)
National Ground Water Association
American Society of Testing and Materials (Committee on Environmental Assessment)
American Association of Petroleum Geologists

Professional Experience

Dr. Lister has over 40 years of professional experience in geology and hydrogeology. His experience includes groundwater investigations at active and inactive industrial facilities; active, inactive, and planned solid waste disposal sites; and state and federal Superfund sites.

Projects in which Dr. Lister has participated include the following:

- Investigation of vadose and saturated zone contamination at industrial and commercial sites throughout Southern California, including Remedial Investigations (RI) and Feasibility Studies (FS).
- Permitting, facility investigations, corrective measures studies, closure design, and implementation at industrial facilities under various state regulations and the Resource Conservation and Recovery Act (RCRA).
- Investigations of surface and groundwater quality at landfills, including design of groundwater monitoring systems, direction of well drilling and installation, sampling and analysis, interpretation of data, and preparation of reports.
- Design of groundwater and vadose zone treatment systems, including determination of subsurface properties by means of aquifer pump tests, vapor extraction tests, and laboratory tests; determination of well location and spacing by means of capture zone analysis; preparation of remedial action plans, including specifications for extraction, injection, and air sparging wells; determination of emplacement reagents and volumes; and preparation of operations, maintenance, and test programs.

- Studies of proposed sites for new/expanded landfills and other waste management facilities, including hydrogeological assessments of sites for protection of water quality. Work has included installation of monitoring wells, groundwater sampling on a local and regional basis, conducting aquifer tests, and descriptions of groundwater regimes for environmental evaluation and permitting.
- Research into state-of-the-art groundwater investigation techniques and management of field investigative projects, resulting in the preparation of journal articles, reports, and guidance documents on the practical application of applicable techniques.
- Investigation of groundwater flow patterns in relation to migration of hydrocarbons, including regional subsurface studies of variations in permeability and porosity, potential migration pathways, and geochemical and geophysical indications of migration.
- Permitting, investigation, remediation, and closure activities conducted with oversight by various local and state agencies such as Regional Water Quality Control Boards (RWQCBs) and the Department of Toxic Substances Control (DTSC) in California. Projects have also been conducted with U.S. Environmental Protection Agency (U.S. EPA) oversight.
- Litigation support, including research and report preparation, advising legal counsel, and expert testimony.

Prior to joining SCS, Dr. Lister was District Geologist for Pennzoil Exploration and Production Company. He was in charge of petroleum exploration in Eastern Texas, Northern Louisiana, Arkansas, Mississippi, Alabama, Florida, and Georgia. He managed a drilling budget which averaged \$2 million per year, and directed a team of eight geologists.

Dr. Lister has also obtained experience in various aspects of stratigraphy, geochemistry, structural geology, basin analysis, clastic and carbonate sedimentology, reservoir engineering, and tectonics. In addition to his work throughout California and the Gulf Coast, he has been involved in projects in Arizona, Utah, Nevada, Kansas, New York, South Korea, British Columbia, Bermuda, the Bahamas, and Mexico.

Dr. Lister's project experience is summarized below.

RCRA Facility Investigation and Corrective Action, Vernon, CA. As Project Manager, Dr. Lister participated in a RCRA investigation, which included soil, soil vapor, and groundwater aspects, at the former Norris Industries facility occupying approximately 16 acres. He prepared a Current Conditions Report, a Corrective Measures Study, and an Implementation Plan for the project. In addition, an off-site regional issues investigation, community relations tasks, health risk assessment, and closeout activities for an aerospace manufacturing tenant were conducted. Oversight of demolition activities related to property redevelopment, including sampling of various media, implementation of a soil management plan, and preparation of technical memoranda have been completed. Post-corrective action monitoring is ongoing.

Indoor Air, Vadose Zone, and Groundwater Investigation at Former Zinc Plating Facility, Long Beach, CA. As Technical Advisor, Dr. Lister oversaw the construction of soil borings and vapor wells; air, soil, soil vapor, and groundwater sampling and analysis; spatial distribution modeling; health risk assessment; community outreach; corrective measures study; and report preparation, all conducted with oversight by DTSC. The project also included the assessment of a large light non-aqueous phase

liquid plume sourced from an off-site region, which involved the removal of liquids and recovery testing activities, along with monthly well gauging, sampling and analysis of product and groundwater, and a forensic evaluation. In addition, subsurface depressurization testing was conducted to provide design input for a building protection system that has now been constructed.

Long Beach Transit Maintenance Facility Remediation for Groundwater Impacts, Long Beach, CA. Former fueling operations resulted in groundwater impacts. As Project Manager, Dr. Lister conducted groundwater monitoring and reporting; design, permitting, and implementation of in situ groundwater remediation; and other remediation efforts. Remediation was conducted in proximity to active underground tanks and piping requiring historical research, extensive geophysical surveying, and additional measures to protect subsurface structures.

Former Dry Cleaner, Shopping Center, Anaheim, CA. Dr. Lister prepared and implemented workplans for on- and off-site soil, soil vapor, and groundwater investigations under DTSC oversight related to a release of chlorinated solvents from a former dry cleaning facility. Soil vapor extraction pilot testing was conducted and a full scale extraction system designed. In addition to workplans, documents prepared include a Remedial Investigation/Feasibility Study, the Removal Action Workplan, and the Removal Action Design Document.

Groundwater Monitoring and Preparation and Implementation of a Remedial Action Plan, Long Beach, CA. Dr. Lister managed a project at a former underground storage tank (UST) site that had previously undergone partial remediation. Confirmation groundwater sampling was conducted, followed by submittal of a Remedial Action Plan (RAP) that was subsequently approved by the Los Angeles RWQCB. Under permit, groundwater remediation, consisting of injection of oxidizing reagents to breakdown fuel hydrocarbons, is being conducted.

Site Investigation of Former Underground Storage Tank Site, Long Beach, CA. Under the Los Angeles RWQCB, Dr. Lister managed on-site soil, soil vapor, and groundwater assessment. Drilling and sampling was conducted within an operating grocery store.

Former Dry Cleaner, Shopping Center, Los Gatos, CA. Dr. Lister prepared and implemented workplans for soil, soil vapor, indoor air, sewer line, and groundwater investigations under the San Francisco RWQCB at a former dry cleaner tenant space. Reports of results were submitted and the investigation is ongoing.

Regional Medical Center, Long Beach, CA. As Project Manager, Dr. Lister prepared and implemented workplans for soil, soil vapor, and methane gas investigations under DTSC in one portion of a large hospital complex. This more recent site investigation builds on earlier work conducted by Dr. Lister and other SCS staff in the hospital complex, concerned with former oil field and waste disposal operations at the site.

Soil and Groundwater Evaluation of Former Industrial Facility, El Segundo, CA. As Technical Advisor, Dr. Lister contributed to efforts for the collection of soil, soil vapor, and groundwater samples as part of a study to determine if the site was suitable for redevelopment as an agricultural testing laboratory. Regional impacts were assessed and recommendations were given for the building design. As a result, a regulatory agency closure was obtained to allow redevelopment activities to proceed.

Shopping Center Subsurface Investigation and Remediation, Rolling Hills Estates, CA. Two shopping center suites were historically occupied by dry cleaning operations that resulted in contaminated soil. As Technical Manager, Dr. Lister oversaw site evaluation and design and

operation of two soil vapor extraction systems. Regulatory agency closure was received after rebound testing and confirmatory sampling efforts.

Remediation of Contaminated Groundwater, Morgan Hill, CA. A municipal vehicle maintenance yard and fueling facility had been impacted by fuel hydrocarbons which included the organic compound methyl tertiary butyl ether (MTBE). As Senior Technical Advisor, Dr. Lister assisted in the characterization and remediation of contaminated groundwater. Activities included the installation and sampling of groundwater wells, aquifer pump tests, soil vapor extraction pilot testing, and design of vapor and groundwater treatment systems.

Remedial Investigation/Feasibility Study (RI/FS) and RAP for Former Wood Treating Facility, Port of Long Beach, CA. As Technical Manager, Dr. Lister contributed to a cone penetrometer and temporary groundwater monitoring well study, which included the use of ultraviolet-induced fluorescence to determine locations of permanent monitoring stations. In addition, two aquifers underlying the site were evaluated by installing 14 groundwater monitoring wells.

Soil and Groundwater Investigation, Pomona, CA. As Project Manager, Dr. Lister oversaw a soil and groundwater investigation for several properties, including a former manufactured gas plant, a UST site, a bulk petroleum storage and distribution facility, and a solvent blending and distribution site. Contaminants of concern included polyaromatic hydrocarbons, petroleum hydrocarbons, chlorinated solvents, and trace metals. Bulk soil and vapor samples were collected and analyzed, groundwater monitoring wells were installed, and downhole (wireline) geophysical surveys were run. Groundwater was characterized stratigraphically and geochemically. Hydrogeological models derived from the study resulted in litigation support involving numerous potential responsible parties. Potential fate and transport scenarios were developed. All work was performed under the oversight of the DTSC.

Los Angeles Unified School District (LAUSD), Multiple Remediation Projects, Los Angeles, CA. As Technical Manager, Dr. Lister contributed to several new school projects for the LAUSD. Projects included the preparation of a RAP report, remediation oversight, confirmation sampling, a Remedial Action Completion Report (RACR), soil and soil vapor investigation and monitoring, a petroleum well assessment, and well abandonment. In addition, several school projects involved characterization of soil for disposal or reuse purposes.

Kaiser Ventures, Brownfields Remediation Operation, Fontana, CA. In 1995, Dr. Lister managed a multi-phase program at the former 1,100-acre Kaiser Steel plant, consisting of a RI/FS, laboratory treatability studies, risk assessments, remedial action plans, hydrogeological studies, and closure documentation under the oversight of the DTSC. Remediation at the former iron and steel production facilities, comprised of a 500-acre Operable Unit No. 2, was completed and signed off by the DTSC after 6 months of intensive efforts. Today, the Brownfields site has been redeveloped into the Auto Club Speedway of California.

RCRA Facility Assessment (RFA) of Former Pesticide Storage and Disposal Site, Pico Rivera, CA. The Los Angeles County-owned site had been used for rodent and other bait formulation for over 60 years, which included the use of strychnine, thallium compounds, warfarin, and additional poisons. The site was also used for the collection and storage of dry materials, in addition to a tank disposal of waste liquid pesticides produced by the public. Based on review of historical sources, a list of over 200 pesticides was compiled and analyzed. RFA activities included soil sampling, groundwater well construction and sampling, sample analysis, waste removal, and closure of a septic system used for disposal of pesticide container rinsings. A health risk assessment (HRA) was conducted. Long-term monitoring demonstrated no impacts to the groundwater and SESOIL modeling was used to demonstrate the lack of potential mobility of soil contaminants. Class 2 RCRA permit modifications were completed, closure activities were conducted, and a closure certification report was submitted.

Former Die Cast Products Facility, Los Angeles, CA. Dr. Lister provided consulting services to the client and counsel with the aim of receiving soil closure from the Los Angeles RWQCB for this site with chlorinated solvent impacts from activities conducted by the previous site owner/Responsible Party (RP). Activities have included review of documents, cost estimating for mitigation, and attending meetings with RWQCB staff and RP counsel.

Groundwater Investigation of Former Spartan Paint and Lacquer Facility, Downey, CA. Site operations included manufactured coatings and two separate clusters of USTs. As Project Manager, Dr. Lister oversaw the groundwater investigation and upgrading of the remediation system that is under oversight of the Los Angeles RWQCB.

Environmental Assessment of Tuxford Landfill, Sun Valley, CA. A pre-purchase environmental assessment of the property, located in the San Fernando Valley groundwater Superfund area, was conducted and post-purchase groundwater monitoring is ongoing. As Project Manager, Dr. Lister collected historical information, reviewed the regional hydrogeology, and assessed potential risks. Landfill gas evaluation was also conducted by SCS. The U.S. EPA is providing oversight.

Aquifer Exemption Assessment of Midway-Sunset Oil Field, Kern County, CA. Dr. Lister was Technical Advisor for aquifer exemption assessment for a portion of the oil field.

Investigation and Remediation, Santa Monica, CA. Historical research revealed that the site was previously occupied by dry cleaning operations and an auto repair business. As Project Manager, Dr. Lister successfully installed and operated the soil vapor extraction cleanup of the subsurface contamination, and obtained closure within a few months of system startup.

Site Investigation for Former Paint Manufacturing Facility, Monrovia, CA. As Project Manager, Dr. Lister assisted in the preparation of the corrective measures study and remedial action plan in conjunction with the proposed site redevelopment.

Removal Action for Mercury-Containing Soil at Hospital Laboratory, Fontana, CA. As Project Manager, Dr. Lister provided oversight of a removal action to address mercury-containing soil under the facility. A removal action plan, health and safety plan, and final report were prepared.

City of Carson, Environmental Assessment at Cal-Compact Landfill, Carson, CA. As Project Manager, Dr. Lister collaborated with the City of Carson to explore possible locations for a potential football stadium. Planning efforts included considering alternative site development plans while incorporating current and future construction within the fill area.

City of Chino Hills, Hydrogeological Assessment, Chino Hills, CA. As Technical Advisor, Dr. Lister provided oversight for the hydrogeological assessment of a land parcel undergoing conversion as part of an underground electrical transmission system.

Soil and Groundwater Studies and Remedial Design at Former Dry Cleaning Facility, Torrance, CA. As Technical Manager, Dr. Lister oversaw the installation of seven groundwater monitoring wells and four soil vapor extraction wells. In addition, he coordinated soil removal in the immediate vicinity of the former dry cleaning machine and solvent storage area. In addition, an indoor air health risk assessment was conducted.

Multi-Year Groundwater Monitoring of Landfills, Northern and Southern California. As Technical Advisor, Dr. Lister managed several projects involving data collection, evaluation monitoring, engineering feasibility studies, and corrective action planning. Additionally, he conducted groundwater geochemical studies related to the influence of landfill gas and adsorptive/desorptive

influences on migration of substances contained within native aquifer materials. Locations in Southern California for the multi-year groundwater monitoring included El Sobrante, Simi Valley, Lancaster, Antelope Valley, and Bradley Landfills. Northern California locations included Altamont, Anderson, Redwood, and Tri-Cities Landfills.

Site Investigation and Remediation for Dry Cleaning Facility, Goleta, CA. As Project Manager, Dr. Lister conducted the site investigation and remediation of dry cleaning operations located in a regional shopping center. He spearheaded investigation efforts focused on determining the extent of impacts to multiple groundwater zones, while incorporating feasible remediation approaches. An in situ soil vapor extraction system was designed, permitted, installed, and operated.

Groundwater Monitoring of Landfills, Ventura County, CA. As Technical Advisor, Dr. Lister is providing oversight and guidance regarding groundwater monitoring and reporting at multiple County landfills. Landfills monitored include Bailard, Coastal/Santa Clara, Ozena, Tierra Rejada, and Toland Road Landfills.

RCRA Closure of Former Aerospace Manufacturing Facility, Van Nuys, CA. As Project Manager, Dr. Lister implemented investigation of nine waste treatment and storage facilities on a 54-acre site. Site-wide investigations were also conducted involving soil and soil vapor sampling and groundwater monitoring. Remedial actions included the removal of diesel-impacted soil, lead abatement and building demolition, and soil vapor extraction. Groundwater investigations involved the installation of 23 on- and off-site wells.

Remedial Investigation, Design, and Construction at Thermal Airport, Riverside County, CA. The Thermal Airport partially occupied pesticide-impacted land requiring remedial action. To delineate areas, Dr. Lister managed the soil sampling and analysis along with a health risk assessment. Under the oversight of the RWQCB, the design and construction involved a composite soil/synthetic membrane cap to isolate areas affected by the contaminated soil from further potential receptors. The construction was carried out on a rapid turnaround basis, with SCS acting as the general contractor; groundwater monitoring wells were observed prior to abandonment.

Investigation and Remedial Action Plan, Santa Barbara, CA. Approximately 15 acres of land were occupied by three dry cleaning facilities, a former vehicle maintenance area, and several thousand feet of sewer main. As Project Manager, Dr. Lister oversaw soil and groundwater sampling and analysis, aquifer testing, fault studies, and preparation of documents. Contaminants of concern included chlorinated solvents, petroleum fuel additives, and fluorocarbons.

University of California Los Angeles (UCLA), Subsurface Impacts Assessment, Los Angeles, CA. Due to a sewer line break at UCLA, Dr. Lister conducted a subsurface impacts assessment as Project Manager. Activities included soil sampling, laboratory analysis, and data assessment on a rapid turnaround basis.

Environmental Impacts Assessment of Former Oil Field Waste Treatment Facility, Long Beach, CA. As Technical Manager, Dr. Lister assisted in determining feasible remedial alternatives of the environmental impacts for this site. Data from former waste ponds and from the locations of above-ground storage tanks were assessed to determine and evaluate remediation scenarios.

Remedial Action and Hydrogeological Study of Former Oil Production Facility, Los Angeles, CA. In support of closure for this site, which was located on a public beach, Dr. Lister coordinated the excavation of impacted soil, managed the installation and monitoring of groundwater and vapor wells, and conducted a natural attenuation study.

Hydrogeological Tasks of Former Beacon Oil Refinery, Hanford, CA. As Task Manager, Dr. Lister oversaw the installation of 10 groundwater monitoring wells, in addition to semi-annual monitoring of the new and preexisting wells.

Air Sparge Pilot Testing of Golden Eagle Refinery, Carson, CA. As Task Manager, Dr. Lister conducted pilot testing of an air sparge system at this site. Groundwater remediation was implemented to determine concept effectiveness, radius of influence, air injection pressures and flow rates, in addition to other parameters for the scale-up design. Dr. Lister also provided his expertise in the efforts to expedite the free product recovery and vapor extraction design.

Soil and Groundwater Investigation of Existing Service Station, Venice, CA. This location included multiple historical underground tanks that resulted in environmental impacts on soil and groundwater. As Project Manager, Dr. Lister conducted soil remediation, which involved in situ vapor extraction and has been completed; the site has been closed. Groundwater monitoring was also implemented.

Groundwater Monitoring of Multiple Landfills, Placer County, CA. As Technical Advisor for a multi-site groundwater monitoring program, Dr. Lister conducted monitoring well evaluation and new well design, assessment of hydrogeology and groundwater geochemistry, groundwater flow and transport mapping, statistical analysis, and quality control review. Landfills have included the active Western Placer Regional Landfill and inactive Loomis, Meadow Vista, Forest Hill, and Eastern Regional Landfills.

Soil Assessment and Groundwater Monitoring of Former Nursery, Norwalk, CA. As Project Manager, Dr. Lister provided soil assessment, well installation, groundwater monitoring, permitting, and remediation design.

City of Pomona, Perchlorate Investigation, Pomona, CA. As Project Manager, Dr. Lister assisted the City of Pomona in examining water monitoring records and conducting a regional study to determine potential contributors to perchlorate in the groundwater. The project was located in part of the Chino groundwater basin underlying the eastern portion of the city. Dr. Lister reviewed regional groundwater flow patterns, developed conceptual models, assessed historical data, and identified several historical sites that may have released perchlorate.

RI/FS and Removal Actions of Angeles Chemical Facility, Santa Fe Springs, CA. As Project Manager, Dr. Lister performed RI/FS and removal under the oversight of the DTSC. The site contained 35 USTs holding various chemicals. A number of groundwater and vadose zone wells were installed and a soil vapor extraction system designed, in addition to assessment of the plume migration potential.

Remedial Investigation and Remediation, Puente Valley Well Investigation Program (Part of the San Gabriel Valley Superfund Site), Los Angeles County, CA. Dr. Lister performed remedial investigation and remediation associated with the Puente Valley Well Investigation Program. He managed multiple phases of soil, soil vapor, and groundwater sampling. In addition, a soil vapor extraction system was installed and operated to address soil impacts due to chlorinated hydrocarbons.

Hydrogeological Assessment and Remedial Design, Crescent City, CA. As Project Manager, Dr. Lister managed the hydrogeological assessment and remedial design for the treatment of groundwater at the Del Norte Superfund site. Activities included the installation of wells and aquifer testing while assessing remedial alternatives.

California Environmental Quality Act (CEQA) Compliance for Eagle Mountain, Riverside County, CA. As Task Manager, Dr. Lister oversaw the geological and hydrogeological aspects of the landfill permitting CEQA compliance for a proposed 100-year-life and rail-haul landfill known as the Eagle Mountain project. He developed a hydrogeological model of the site, which included fractured bedrock and alluvial elements.

Hydrogeological Assessment and Groundwater Monitoring, San Diego, CA. As Project Manager, Dr. Lister led the hydrogeological assessment, groundwater monitoring and water injection system design, and water treatment design for the Morena Boulevard sewer interceptor construction. He assessed the potential for gasoline plume migration under natural conditions and under the influence of construction dewatering. Subsequently, a remedial design was instituted to control contaminant plume migration and treat pumped groundwater prior to discharge.

CEQA Compliance of Prima Deshecha Landfill, Orange County, CA. As Project Manager, Dr. Lister oversaw activities for hydrogeological, topographical, and public safety in compliance with CEQA standards and the expansion design.

Feasibility Study and Conceptual Design of Nanji Island Landfill, Seoul, South Korea. As Project Manager, Dr. Lister's technical oversight was utilized for a feasibility study and conceptual design of landfill closure for Nanji Island Landfill, the principal municipal solid waste facility in Seoul, South Korea. Tasks included conducting an intensive week-long session in Seoul for Daewoo Engineers, to develop concepts and determine final closure design recommendations.

Metropolitan Water District of Southern California, Groundwater Monitoring System Design and Compliance, Southern California. As Project Manager, Dr. Lister oversaw the groundwater monitoring system design and permit compliance for a drinking water treatment sludge monofill.

Geological and Hydrogeological Siting for Landfill, Imperial County, CA. As Task Manager, Dr. Lister provided geological and hydrogeological aspects of siting for a rail-haul landfill at a mine site in the Cargo Muchacho Mountains.

Design of Monitoring Systems for Landfill Closure, Southern California, CA. As Project Manager, Dr. Lister contributed to closure activities for several landfills in Southern California. Closure activities included the design of monitoring systems at several waste management units, including the North Chollas Landfill in San Diego, Maxson Street Landfill in Oceanside, the Kaiser Tailings Ponds in Riverside County, Duck Pond Landfill in National City, and Miller Way Landfill in South Gate.

County of San Diego, Expanded North County Landfill Siting Study, County of San Diego, CA. As Project Manager, Dr. Lister conducted landfill siting studies to identify and rank sites, based on geological, hydrogeological, and engineering criteria.

Groundwater Monitoring of West Miramar Landfill, San Diego, CA. As Task Manager, Dr. Lister designed a groundwater monitoring system for expansion of West Miramar Landfill.

Landfill Remedial Action Plan/Response Plan, Commerce, CA. SCS was tasked with updating corrective actions proposed for two adjacent landfills, and converting an existing Remedial Action Plan to a Response Plan. Oversight for this redevelopment project, which involves landfill clean closure, is being provided by the Los Angeles RWQCB.

Permit Compliance of Imperial County Sanitary Landfill, CA. As Project Manager, Dr. Lister oversaw the preparation of Report of Waste Discharge, Periodic Site Review, Report of Disposal Site Information, Water SWAT Proposal, and CEQA documents.

Author of major portions of a state-of-the-art review of hazardous waste disposal, entitled “Industrial Waste Disposal in the 1950s,” for the California State Attorney General. This study included investigation and comparison of contemporary siting studies carried out at the Stringfellow, Omar Rendering, Otay Mesa, Palos Verdes, and BKK (West Covina) Class I sites, with particular reference to evaluation of pre-siting hydrogeological studies.

Author of groundwater monitoring section of Procedural Guidance Manual for Sanitary Landfills, prepared by SCS for the California Waste Management Board (now CalRecycle).

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