



Andrew Brack, PG
Principal
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Education

BSc, Applied Geology, 1991, University of Sunderland, UK
MSc, Engineering Geology, 1994, Imperial College of Science and Technology, London, UK

Registrations

Registered Professional Geologist California No. 8394
Registered Professional Geologist Arizona No. 45017
Fellow of the Geological Society of London No. 1001728

Professional Affiliations

International Association for Engineering Geology
Geological Society of London
National Groundwater Association
California Redevelopment Association

Training

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

Mr. Brack is a registered California and Arizona Professional Geologist with over 18 years of diverse practical experience as an environmental and engineering consultant; specializing in soil and groundwater assessment and remediation, natural resource management, land use issues, project management, environmental litigation support and recently, renewable energy development.

Mr. Brack is a project manager who often directs multi-disciplinary project teams in natural resource management and remedial programs and in the preparation of associated environmental documents. In addition to a familiarity with NEPA/CEQA procedures, compliance and regulatory permitting requirements, Mr. Brack is also familiar with CERCLA and RCRA regulations. Mr. Brack's project management assignments have ranged in scope from small environmental assessments to large scale term contracts for multinational corporations, and have ranged in value from several thousand dollars to several million dollars. Mr. Brack is adept at implementing projects that involve the inclusion and management of a diverse range of technical experts, including but not limited to, ecologists, planners, archeologists, geologists, engineers, air and noise experts and other specialized entities such as nuclear physicists. Mr. Brack is often involved with regulatory coordination and stakeholder negotiations, as well as, legal mediation and strategic planning. Mr. Brack has a thorough understanding of both federal and state environmental regulations, and routinely interacts with the regulating agencies. As a technical specialist, Mr. Brack is focused on land use issues, and in particular on redevelopment projects. Often, but not always, these projects are environmentally impacted, such contaminating impacts have included chlorinated solvents, perchlorate, petroleum hydrocarbons, heavy metals, low level radioactive waste and combusted materials, and in particular, coal carbonization waste and by-products.

Specific Areas of Expertise

- As a technical specialist, Mr. Brack has considerable experience both from the management and firsthand perspective in implementing site characterization and remedial actions. Many of the remedial actions undertaken have been associated with real estate transactions and have included a range of soil and groundwater in-situ and ex-situ techniques. Environmental challenges have included impacts from some of the following contaminants: chlorinated solvents, perchlorate, petroleum hydrocarbons, heavy metals, low level radioactive waste and combusted materials, and in particular, coal carbonization waste and by-products.
- Managed construction crews during small and

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large scale remedial actions.

- Regularly involved with regulatory coordination and stakeholder negotiations, as well as, legal mediation and client strategic planning.
- Familiarity with environmental federal, state and local compliance and regulatory permitting requirements, and proficient in interacting with the regulating agencies.
- Contract and budget negotiation and approval.

Mr. Brack has a proven track record both nationally and internationally. Mr. Brack's international experience includes projects in the Arabian Gulf, Canada, Norway and the United Kingdom (UK). Mr. Brack is a permanent US resident and a citizen of the UK.

Project Experience

- **AIG – Environmental Document Review**
Support of AIG's Cost Cap and Pollution Legal Liability insurance liability assessments. On behalf of AIG, reviewed environmental documentation for over 50 sites in California and prepared opinions regarding likely on-site and off-site environmental liabilities, identified data gaps and provided site characterization / remedial action cost estimates and schedules.
- **ACE – Environmental Document Review**
Support of ACE's Cost Cap and Pollution Legal Liability insurance liability assessments. Considerations include CEQA compliance as well as hazardous waste environmental impacts.
- **Los Angeles Unified School District – Various Potential New School Sites**
Review of third party environmental reports, the preparation of opinions based upon our findings of likely environmental impacts at these sites, and the development of detailed remedial cost estimates to support the reduction of a purchase price under an eminent domain action.
- **Former Dry Cleaners, West Hollywood, California – Chlorinated Solvents**
Remedial program that involved the development of a feasibility report and corrective action plan, pilot studies, and the design and construction of a limited access soil vapor extraction and granular activated carbon-based treatment system for soil impacted with chlorinated solvents. Soil closure was obtained after 5 months of operation.

- **City of West Hollywood, West Hollywood, California – Various**
Activities included development of the city's approach to evaluating properties within this area, managing grant funding for the project and preparing the technical reports.
- **Dry Cleaners, North Los Angeles – Chlorinated Solvents**
Negotiating with potentially responsible parties (legal agents for insurers), the current owner and the regulating authority.
- **Northrop Grumman, Hawthorne – RCRA - Chlorinated Solvents**
Preparation of a remedial action plan, engineering design and implementation of a fully mobile multiphase extraction system for remediation of chlorinated solvents at a commercial site with strict operational restrictions.
- **Los Angeles Unified School District - Chlorinated Solvents**
Managed a large-scale soil vapor assessment program which involved the collection and assessment of 120 soil vapor samples on a quarterly basis. In addition, Mr. Brack prepared a corrective action plan, and engineered and constructed a 12-well 1,200-scfm-soil vapor extraction and granular activated carbon-based treatment system.
- **Playa Capital Company, LLC, Test Site 2 – Chlorinated Solvents**
Multimillion dollar chlorinated solvents remedial action implementation program at the former Howard Hughes aircraft manufacturing and test plant. Remedial activities included construction dewatering and groundwater treatment; excavation of hazardous materials; installation of a groundwater collection trench, extraction wells, and associated conveyance line; design and installation of a UV/peroxide groundwater treatment system and a lactate injection system; and operation and maintenance (O&M) of the system.
- **Playa Capital Company, LLC, Campus Area Remediation – Chlorinated Solvents**
Installation of the civil portion of a chlorinated solvents groundwater remediation system. The system includes over 3,500 linear feet of trenching and close to 15,000 linear feet of high



density poly ethylene pipe installation. Once complete the system will extract groundwater and vapors from an approximate 35-acre area.

- **City of Norwalk, Litigation Support – Chlorinated Solvents**

Environmental consulting and litigation support services for the City of Norwalk. The works involved the identification of possible responsible parties for 1,2 DCA impacts to a water supply well. As part of the scope of work, Mr. Brack reviewed existing site information, assessed PRP (potentially responsible people) documentation and made determination upon likely PRP status. In addition, Mr. Brack developed a site conceptual model and set preliminary remedial cost estimates.

- **Barry Avenue Plating, Litigation Support – Chlorinated Solvents / Hexavalent Chromium**

Defendant litigation support services for chlorinated solvent (TCE) and hexavalent chromium impacted soil and groundwater alleged to be sourced from a plating facility in Los Angeles County.

- **Perchlorate Groundwater Contamination – CERCLA - Perchlorate**

CERCLA based feasibility study, remedial action plan and remedial cost estimates in support of litigation activities associated with Perchlorate groundwater contamination at a confidential landfill site in California. The feasibility and cost report formed the basis of the litigation defense for this complex multimillion dollar lawsuit.

- **Client Confidential, Simi Valley – CEQA - Perchlorate / Radionuclides**

Environmental support services for the redevelopment of a 1,600-acre site. Interfaced regularly with the client to ensure that project deliverables met all expectations. Activities also included investigation oversight, direction, report preparation and supervision of all environmental activities for perceived contamination issues at this high profile site. Activities included radiological and perchlorate soil and groundwater testing.

- **Waste Management Inc – MTBE and Diesel**

Construction and project manager for the investigation and retrofitting of diesel and gasoline USTs and dispensing islands and

pumps. Managed the permitting and design engineering for the upgrade of the USTs and managed the construction of the upgrading works. Works involved the excavation of 4 USTs, the re-piping of the system, new electrical control systems, installation of collection sumps and the replacement of the dispensing pumps as well as the reinstatement of the filling areas concrete apron and islands. Development and issue of closure report.

- **Orange County Sanitation District – MTBE**

A feasibility study and corrective action plan for petroleum hydrocarbon and fuel oxygenate groundwater contamination. The report was prepared for submission to the local regulatory authority.

- **City of Santa Monica, Arcadia Well Field – MTBE**

Operation and Maintenance Manager for a 15,000-pound carbon-based groundwater treatment system and air sparge and soil vapor extraction system for MTBE-impacted groundwater.

- **Pleasant Valley Parks and Recreation Division, Camarillo, California – MTBE and TBA**

In addition to preparing a feasibility study and corrective action plan for approval by the local oversight agency, Mr. Brack redesigned and modified an existing groundwater extraction system to treat petroleum hydrocarbons and fuel oxygenates (ex situ biotreatment system).

- **Southern California Edison, Catalina Island – Petroleum Hydrocarbons**

Task manager responsible for the design and implementation of a free product recovery system for a petroleum hydrocarbon release.

- **Long Beach, California – Petroleum Hydrocarbons**

Development of a remedial action plan, design and implementation of an air sparge and soil vapor extraction and treatment (electric catalytic oxidation) system for petroleum hydrocarbon releases to soil and groundwater.

- **Los Angeles Unified School District – Petroleum Hydrocarbons (UST)**

Investigation and removal action of a diesel underground storage tank at an operations school site in South Central Los Angeles.



Activities included investigation work, construction activity and the development of a final closure report.

- **Missouri Electrical Works, Missouri – CERCLA - Chlorinated Solvents / PCBs**
Under USEPA oversight, Mr. Brack developed a CERCLA standard feasibility study for a Superfund site underlain by complex fractured bedrock impacted by chlorinated solvents and polychlorinated biphenyls (PCBs). In addition, he assisted in the development of a “technical impracticability report” for the fractured bedrock.
- **San Diego Unified Port District – Polanco Act Redevelopment of a Burn Ash Pit and Coal Tar Waste Lagoon**
In support of a Polanco action, Mr. Brack performed an expert review of environmental assessment documents relating to contaminated source materials at the site, which included combusted and partially combusted refuse. The scope of work entailed litigation support activity, which included the development of opinions regarding the likely source of identified contaminating materials and a report for the site. A primary focus of the data review was to determine if identified contamination was indicative of waste material from nearby manufactured gasworks operations in order to establish potentially responsible party status.
- **Polanco Act Redevelopment and Technical Support Services – Burn Ash**
Prepared a remedial action plan and provided Polanco Act redevelopment and technical support services for a confidential site in downtown San Diego. Mr. Brack assisted the site owners with the implementation of a Polanco action within the Centre City Development Corporation’s (CCDC) redevelopment area in accordance with a notice issued by the CCDC.
- **Google, Arizona, Nevada, Utah, Texas, Colorado**
Client planned to develop electricity derived from a number of renewable sources for direct use and surplus sale to the grid in the southwestern United States. Solar technologies considered included PV and CSP. Sites ranged from 30,000 acres – 100,000 acres.

Publications and Training

- The Sixteenth Annual AEHS Meeting and West Coast Conference on Soils, Sediments, and Water
- March 13 – 16, 2006: California Human Health Screening Levels Friend or Foe!