

MIKE CASSIDY, RG, GHG, REA II, CEM
Senior Geologist
Branch Manager

CAPABILITIES

Subsurface Assessment and Remediation
Contaminated Real Property Transfers
Water Treatment Systems
Facility Closures
Construction Management

Expert Witness and Litigation Support
Regulatory Compliance
Industrial Waste Treatment
Phase I Environmental Site Assessments
Program Management

EXPERIENCE SUMMARY

Mr. Cassidy is a Professional Geologist, Certified Hydrogeologist, Registered Environmental Assessor Level II, and Certified Environmental Manager with over 20 years of professional experience performing environmental/geologic studies, conducting environmental compliance assessments, and installing/managing soil and water treatment systems. Mr. Cassidy has a diverse environmental and geotechnical engineering background. He has managed site assessment and remediation projects throughout Southern California, and has supervised technical staff conducting Phase I investigations, site assessments, and remediation activities. These projects have demanded a broad range of the expertise, including groundwater flow, water quality evaluation, contaminant fate and transport, feasibility analysis health risk evaluation, and soil and groundwater remediation, technologies. Mr. Cassidy's clients have included public agencies, major oil companies, private developers, consulting firms, and private individuals. He has provided expert witness testimony and litigation support regarding numerous environmentally impacted properties.

EDUCATION

MBA, Pepperdine University (Coursework)
MS, Geology, San Diego State University
BA, Geology, University of California, Santa Barbara, CA

REGISTRATIONS

California Registered Geologist
California Certified Hydrogeologist
California Registered Environmental Assessor II
Washington State Geologist and Hydrogeologist
Nevada Certified Environmental Manager

AFFILIATIONS

Member, National Ground Water Association

SELECT PROFESSIONAL EXPERIENCE

Key project responsibilities for Mr. Cassidy have included:

Site Assessment and Remediation

- Oversight and management of a professional staff that produced approximately 70 Phase I Site Assessments per year for the purposes of property transfer and protection under CERCLA. Clients included major oil companies, banks, major and minor developers, municipalities, counties, and independent private parties.
- Oversight of the identification, assessment, and removal of several thousand feet of underground fuel pipelines to facilitate construction of the new downtown ballpark. Duties included preparation of work plans, property mitigation plans, and final reports; identification of other potentially responsible parties (PRPs), coordination of the PRP groups; and evaluation of data collected by several consultants to determine the source of various fuels in commingled plumes. Chosen as the lead technical consultant for one PRP group that included Unocal, SDG&E, and others. Prepared property mitigation plans and provided direct oversight of the excavation and removal of several thousand yards of soil containing free product. Participated in the negotiation and cost allocation for the project among PRPs. Careful assessment and detailed documentation of the contribution of contamination by other PRPs resulted in a significant cost savings of approximately \$700,000.
- Project Manager for the removal of 12 underground fuel pipelines to facilitate a rail yard expansion project and installation of a trolley painting facility. Pipelines were located, uncovered, tapped, drained, capped, and removed; and associated hydrocarbon-affected soil and free product was removed from the site.
- Managed staff and conducted business development at a firm specializing in dual-phase extraction of contaminants from the subsurface. Conducted research into and designed specialty wells for the injection of hydrogen peroxide into the subsurface as a tool for accelerating site remediation.
- Project Manager in multi-phase investigation of operating service station in an area with beneficial groundwater use designations. Characterization included installation of nine onsite and offsite groundwater monitoring and four vapor extraction wells, and the collection and analysis of soil and water samples; remediation included excavation of hydrocarbon-affected soils, and installation and operation of a 250 scfm vapor extraction system.
- Project Manager conducting regulatory site closure negotiations with the Los Angeles Regional Water Quality Control Board for a site with free phase, adsorbed-phase, and dissolved-phase hydrocarbons of unknown origin.

- Registered professional in charge of reviewing, signing, and stamping groundwater monitoring and sampling reports for approximately 200 oil company sites in Southern California.
- Project Manager for regulatory compliance reporting of previously unreported site assessment and remediation activities by others at an active service station. Coordinated and facilitated reimbursement of site characterization and remediation activities from the State of California Underground Storage Tank Cleanup Fund.
- Project Manager in investigation of underground storage tank release at a manufacturing plant. Characterization included installation of monitoring wells and borings using air-rotary technology, collection and analysis of soil and groundwater samples, and regulatory agency reporting and interaction resulting in no further action at the site.

Legal Support

- Manager and expert witness in litigation involving above-ground storage tank facility with multiple commingled plumes including chlorinated solvents, diesel, gasoline, kerosene, Bunker C, and jet fuel. Field duties included the legal observation of the drilling of over 100 soil borings and 10 monitoring wells and the collection of soil, water, and free product samples; installation of cluster monitoring wells and product recovery wells; and facilitating the installation of a 2,000 scfm vapor extraction system with 60 on- and offsite vapor extraction wells. Field activities included coordinating operations with nine other environmental consulting firms involved in the case; obtaining well, encroachment, batch discharge, industrial user's discharge, and Air Pollution Control District permits, evaluation of remediation alternatives, and site characterization report, corrective action plan, groundwater monitoring and sampling report, feasibility study, and site closure request preparation. Received regulatory closure of this site following the completion of remediation activities.
- Project Manager in litigation involving an active service station. Field duties included the legal observation of groundwater sampling activities and collection of split water samples; and the evaluation of groundwater sampling activities by others.
- Project Manager oversight of a former tank farm property directly adjacent to a municipal production well impacted by 1,2-DCA. Intensive research was conducted that helped develop a successful strategy that resulted in a favorable settlement of a lawsuit brought by the municipality against the client alleging that the contamination in the well emanated from the adjacent former tank farm facility.
- Project Manager overseeing the assessment of a former gasoline service station site involved in litigation. Site is a "Priority 1A" as determined by the Los Angeles Regional Water Quality Control Board, which requires preparation of a Site Conceptual Model. Evaluation of chromatograms revealed crude oil in the subsurface beneath this former gasoline service station site. File review and investigation revealed two high-pressure crude oil lines adjacent to the property. This information was used to successfully defend a

lawsuit by nearby property owners who alleged that contamination from the service station had impacted their property. Interaction with regulatory agencies has resulted in the identification of other PRPs and the likely transfer of responsibility of cleanup of the crude oil and other contaminants from the client to these PRPs at a significant cost savings to the client.

- Project Manager for three sites in the Charnock Basin litigation. Duties included work plan preparation, regulatory compliance, site assessment, and preparation for litigation involving MTBE contamination of municipal drinking water wells. Interacted with the LARWQCB and EPA, attended PRP meetings, prepared work plans for site characterization of MTBE, installed borings and wells, evaluated data, and prepared for litigation.
- Project Manager providing support for litigation involving active chemical distribution facility, with commingled plume including on- and offsite chlorinated solvent contamination in soil and groundwater. Duties included site reconnaissance; observation of groundwater monitoring activities; evaluation and presentation of data collected by all parties; consultation and coordination with other expert witnesses, and preparation for and participation in mediation.
- Project Manager providing support for litigation involving active chemical distribution facility, with commingled plume including onsite and offsite chlorinated solvent contamination in soil and groundwater. Duties included site reconnaissance; observation of groundwater monitoring activities; evaluation and presentation of data collected by all parties; consultation and coordination with other expert witnesses; and preparation for and participation in mediation.

Preliminary Endangerment Assessments

- Preliminary Endangerment Assessment Work Plan and Preliminary Endangerment Assessment Report: Registered Environmental Assessor II overseeing the execution of a Preliminary Endangerment Assessment study for the proposed Bridgeport School site. Duties included review of all available pertinent documents, scoping meetings with representatives of the DTSC, preparation of a Preliminary Endangerment Assessment Work Plan, conducting the field investigation including soil gas, soil, and groundwater collection and analysis, and preparation of the Preliminary Endangerment Assessment Report.

PROFESSIONAL HISTORY

Winefield & Associates, Inc., Orange, CA, Senior Geologist & Branch Manager, 2008 - Present

Geotek, Inc., Vista, CA, Branch Manager, 2007 - 2008

Leighton Consulting, Irvine, CA, Operations Manager, 2002- 2007

Vapor Extraction Technology, San Clemente, CA, Principal Hydrologist, 1998-2002

Alton Geoscience (TRC), San Diego, CA, Senior Geologist, 1990 – 1998