

Mr. Kerschner is a hydrogeologist who began his professional career in 1981. He has substantial experience in conducting and managing environmental investigations, feasibility studies, and remedial actions at operating and former industrial facilities. He also has extensive regulatory management experience under Resource Conservation and Recovery Act (RCRA), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and various state statutes.

DISTINCTIVE QUALIFICATIONS

- Provides a high level of hands-on, solution-oriented participation in investigation, remediation, and environmental compliance projects.
- Specializes in wood preserving and coal tar chemical issues, with involvement at more than 75 sites.
- Skilled in the use of innovative investigation and remediation technologies with a focus on project efficiency and cost-effectiveness.
- Proficient at working within state and federal regulations to develop reasonable and realistic approaches to issues.
- Proficient at integrating risk-based approaches to developing investigation and remedial activities.
- Former corporate environmental manager responsible for environmental compliance and CERCLA/RCRA Corrective Action activities at multiple facilities.

KEY ACCOMPLISHMENTS

- Managed a number of investigation and remediation projects in multiple states in support of site redevelopment activities.
- Developed a site remedial action for a former wood preserving site that saved clients in excess of \$10 million over the remedial action recommended by a previous consultant. Used knowledge of the hazardous waste regulations to overturn the more expensive remedial recommendation and support an innovative remedial approach. Used a detailed risk-based evaluation to support a no-action approach for adjacent wetland area.
- Advocated and implemented innovative *in-situ* remedial actions to address inorganic and organic constituents in soil and groundwater. Approaches resulted in considerable cost savings over removal actions favored by the agencies.
- Developed and implemented regulatory-based site decommissioning programs for a number of closed facilities.

EDUCATION

M.S., Geology, Kent State University, 1981
B.S., Environmental Science, Allegheny College,
1979

REGISTRATIONS

Certified Professional Geologist (CPG),
American Institute of Professional Geologists
Registered Professional Geologist (PG),
Pennsylvania, Florida, Indiana, Tennessee,
Kentucky, and Georgia

PROFESSIONAL AFFILIATIONS

American Institute of Professional Geologists
Association of Ground Water Scientists and
Engineers
American Wood Protection Association
Railway Tie Association
Treated Wood Council

REPRESENTATIVE PROJECT EXPERIENCE

Site Characterization and Remediation

- Managed site investigation, human health and ecological risk assessment, remedial planning, and remedy implementation for a 20-acre parcel containing a former creosote lagoon and Polychlorinated biphenyls (PCB)-contaminated former scrapyard, as well as an adjacent tidal wetlands area. The final site remedy was integrated with commercial redevelopment of this area. Remedial actions included excavation and off-site disposal of higher-concentration PCB soils and debris; relocation and/or capping of lower-concentration PCB soils and creosote lagoon area; capping of a drainage swale containing impacted sediments; installation of a subsurface containment wall for management of dense non-aqueous phase liquid (DNAPL) and light non-aqueous phase

liquid (LNAPL), and removal/off-site disposal of LNAPL/DNAPL. The site has been redeveloped as a major regional shopping center.

- Managed a site characterization and remediation project at a former wood preserving site. Performed site characterization activities and managed a human health and ecological risk assessment under the state voluntary program. Currently performing field-scale testing of *in-situ* soil and groundwater remediation technologies.
- Completed site characterization activities at an active wood preserving facility. Implemented *in-situ* remediation of hexavalent chromium in soil and groundwater using a chemical reductant application. Total timeframe from initial investigation to receipt of no further remediation determination from the state was approximately two years.
- Managed a site characterization and plant decommissioning project at a former wood preserving site. Completed site characterization activities and prepared a remediation plan for inorganic and organic constituents in soil and groundwater. Conducted under the state voluntary program.
- Managed a RCRA Facility Investigation at an active wood preserving site. Completed remedial investigation (RI) and risk assessment activities for this facility that treated wood with creosote, pentachlorophenol, and chromated copper arsenate (CCA). Currently developing a remedial approach for soil and groundwater in a limited portion of the site. Also developed an approach for risk-based closure of a unit previously closed as a landfill. Performing semi-annual groundwater monitoring/reporting activities.
- Developed a site closure under the state's land recycling program for a former wood preserving site. Activities included decommissioning/demolition of remaining process equipment, soil and groundwater quality characterization, and completion of closure documentation.
- Developed a project scope and bid specification package for the cleaning and demolition of a portion of a wood preserving facility in Alabama and the entire facility in California.

- Supervised the finalization of an Operable Unit RI Report. Prepared comments on Agency's proposed remedial plan on behalf of client. Prepared comments on resulting Record of Decision. Supervised the preparation of RI Work Plan for another Operable Unit on site.
- Managed a voluntary project involving design and construction of a hydraulic containment system for a former wood preserving plant. The focus was to prevent constituent migration toward a nearby municipal wellfield. Completed a limited LNAPL removal leading to final site closure.
- Performed site characterization and remedial planning activities at a former arsenical chemicals manufacturing facility located in a mixed commercial/residential neighborhood. Finalization of a remedial plan is in process.
- Lead hydrogeologist for over 40 site investigation projects at multiple wood preserving and chemical production plants.

Expert Witness

- Prepared Expert's Report on behalf of a client seeking insurance cost recovery for a former wood preserving site. Case was settled prior to trial.
- Represented a corporate client in litigation matters concerning a former wood preserving facility. Critiqued proposed remedy and prepared an alternative remedial proposal.
- Prepared Expert's Report on behalf of a client seeking cost recovery related to PCBs at a former scrap yard property.
- Prepared Expert's Report on behalf of a client in defense of a cost recovery action at a former manufactured gas plant.

Environmental Management

- Worked with corporate management and counsel to develop various corporate environmental programs. Issues covered included commenting on proposed regulations, consistency with the National Contingency Plan, financial assurance, cost recovery, and technical consistency.
- Corporate Environmental Manager for the development and implementation of investigations, risk assessments, and feasibility studies at more than 10 former or operating industrial operations, pursuant to state Superfund, RCRA 3008(h), and/or CERCLA.