



**ROBERT A. DAHL**  
*Sr. Project Manager*

## EDUCATION

❖ B.A. BioChemistry/Cellular Biology, 1973 University of California, Santa Barbara

## HISTORY

2002-Present	Current Environmental Solutions, Crockett, CA. Sr. Project Manager
1987-2001	Terra Vac, Pittsburg, CA. Operations Manager (CES's Parent Company)
1973-1986	Chevron Chemical Co.,

## RELAVENT EXPERIENCE

### Summary of Experience

Spanning more than 30 years, Mr. Dahl has managed and coordinated numerous site remediation projects. These projects include work for major oil companies, government facilities, major food processing companies, dry cleaners, computer chip manufacturers, and others. He has been responsible for the design, permitting, installation and operation of numerous in-situ remediation systems. In such capacity, Mr. Dahl has obtained air discharge permits in the Los Angeles basin, the San Francisco Bay Area, the Sacramento area, other California air districts and out of state, as well as NPDES permits for water discharge. He has also managed reimbursement projects with the California State Cleanup Fund for many sites.

Mr. Dahl works closely with CES's R&D team to continually develop the ERH technology, in-house analytical and geotechnical laboratory procedures, and innovative methods for process and performance monitoring.. These efforts have required supervising laboratory work, development of hot zone sampling procedures, performing analytical and QA/QC procedures, and client and regulatory liaison. His in-depth analytical experience has fostered CES's R&D laboratory work involving in-situ degradation and contaminant fate using ISTT.

Before joining Terra Vac in 1987, Mr. Dahl was a long time employee of the Chevron Chemical Company. As a member of a process research team, he worked on a variety of projects, utilizing analytical, laboratory and engineering skills. Projects included chemical process optimization, developmental chemistry, compliance source testing and environmental work. These required coordination with plant personnel and management, quality control labs, other company support

groups and outside agencies. One such project proved the efficiency of an alternative raw material source at local plant, resulting in savings of \$800,000/year for Chevron.

As a safety coordinator, he conducted safety inspections and audits, scheduled and conducted group safety meetings, and established the research group's emergency response team and procedures. Mr. Dahl also developed hazardous waste handling procedures at the pesticides pilot plant and developed and implemented a training program for new employees at the plant.

He managed construction, installation and startup operations at Site S McClellan Air Force Base, the world's largest SVE-VOC remediation system at the time. He also managed the ex-situ treatment of over 10,000 yards of hydrocarbon impacted soils excavated by CalTrans for the Santa Barbara cross-town freeway project. Mr. Dahl has designed and utilized air sparging, bioventing, hot air injection, dual vacuum extraction systems; involved in implementation and operations of electrical resistive heating systems; and written the protocol for hydrogen peroxide injection.