



PROFESSIONAL PROFILE



Larry Lew, PG, PhD

Principal Geologist

CONTACT INFORMATION

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EDUCATION

PhD, Geology, Pennsylvania State University
MS, Geology, Pennsylvania State University
BA, Environmental Science, Wesleyan University

PROFESSIONAL LICENSES

Registered Professional Geologist: Texas – No. 5146
CAPM: Texas – No. PM0000226

EXPERIENCE SUMMARY

Dr. Lew has over thirty-five years of environmental experience, including Principal Geologist at Roux (2024-Present); Principal, Gulf Coast Environmental Practice Leader at Civil & Environmental Consultants, Inc. (2021-2024); West Region Operations Manager (2017-2024) and Assessment and Remediation Manager (2014-2017) at EarthCon Consultants, Inc.; Office Manager at Enercon Services, Inc. (2011-2013); Senior Hydrogeologist at Titan Engineering, Inc. (2010-2011); Resource Manager, Geology Practice Leader at RMT, Inc. (2006-2010); Texas Operations Manager at Brown and Caldwell (2005-2006); and Principal Geologist, Office Contract Analyst at MACTEC Engineering and Consulting, Inc. (1998-2005).

For ten years, Dr. Lew taught seminars and case history classes each semester at Texas A&M's Civil Engineering Department. He was an invited lecturer/seminar presenter at the University of Texas Geology Department, the University of Houston Civil Engineering Department, and Wesleyan University Earth and Environmental Science Department. From the time it was founded through when it was disbanded, he served on the Industry Advisory Committee at Texas A&M, Dept. of Civil Engineering. He was appointed by the mayor to the City of Houston's Land Redevelopment Committee overseeing the Brownfields program in 1998; he served as co-chair of this committee from 2002 through 2004; he was reappointed in January 2005 and January 2010, and served as a committee member through 2013.

TECHNICAL SPECIALTIES

Dr. Lew has held responsibility for many aspects of operations, staff, business growth and practice management, with a focus on business and client development and the direction of multidisciplinary teams. He has managed projects, providing soil and groundwater remediation and regulatory compliance services to the oil and gas, petrochemical, and manufacturing market sectors. His remediation projects have led to the closure of numerous sites. Other projects have involved RCRA permitting, water and waste compliance, and compliance auditing of large, complex facilities.

REPRESENTATIVE PROJECTS

- Successfully negotiated acceptance of regulatory approaches using performance-based plans and permits resulting in savings of tens to hundreds of thousands of dollars at three refineries. Developed performance based compliance plans and gained acceptance by TCEQ with minimal comments on permit renewal applications.
- Conducted due diligence, compliance audits and analyses of EHS financial liabilities for acquisitions of eight refineries in five states and Puerto Rico. Identified current and likely future air, water, and waste compliance issues; evaluated remediation issues; and estimated costs of achieving and maintaining compliance, including life-cycle costs. Recommended potential risk management and mitigation strategies.
- Innovative waste characterization saved \$19 million in redevelopment of brownfields site into the downtown Houston Convention Center Hotel (Hilton Americas) from a former pesticide blending plant. Successful negotiations with TCEQ VCP Project Manager achieved acceptance of innovative waste characterization scheme and achieved a Certificate of Completion in less than 6 months. Site remediation was achieved without delay of fast-paced site redevelopment construction schedule.
- Acted as Southwest Airlines' Representative for environmental issues at Hobby Airport. Managed proposal effort and acted as program manager and directed the program acting as

Southwest Airlines environmental consultant for remedial actions and compliance related to construction of the new Hobby International Terminal.

- Conducted due diligence and financial evaluation of EHS liabilities for multibillion-dollar bakery acquisitions. Developed approach and built and trained team to evaluate 47 factories in 24 states as well as over 2000 depots across the US in less than one month. Identified EHS compliance issues, regulatory issues, remediation liabilities and estimated costs to achieve compliance and associated life-cycle costs of programs. Recommended risk management strategies. Applied approach for second acquisition of another company with 22 factories and hundreds of depots in nine states.
- Due Diligence, Compliance Auditing, Life Cycle Cost Analysis. RCRA Permit Renewal Application for petrochemical facility in Alvin, Texas area. Developed various reports for the Permit renewal application for the company's existing hazardous waste permit. Provided QA/QC review of entire permit application. The project included revising closure and post-closure plans and the development of updated closure/post-closure costs and schedules. Renewal permit was issued with no comments or NODs from TCEQ.
- Conducted due diligence for acquisition of oil and gas assets, including production wells, pipelines, and gas plants. Conducted due diligence projects for acquisition of active oil and gas assets in Texas, Louisiana, Oklahoma, Kansas, Arkansas, Alabama, Florida, and Pennsylvania.
- TPDES Permit Renewal and SPCC Plan Update for Houston Ship Channel Area Petrochemical facility. Developed TPDES renewal application and revised and updated SPCC Plan addressing a variety of major system and process changes for Houston area plant.
- Equalization Pond Release Assessment and Pond Repair Program. Confidential Client (Beaumont, Texas). Conducted dye study and determined that equalization pond was leaking. Assessed soil and groundwater and determined that impacts were below risk-based corrective action levels. Plant had plans to replace and relocate the pond in 5 years as part of plant expansion, and was facing an unanticipated \$10 million cost to replace the pond early and then having to relocate the basin in 5 years. Developed a liner repair approach and O&M program that kept the basin in service for 5 years at a cost of \$50,000, saving the client nearly \$10 million until capital budget could be established for pond replacement.
- Soil Treatment Program for Fire Fighting System Maintenance. Confidential Client (Beaumont, Texas). Plant needed to replace all off its fire monitors and was concerned about health and

safety issues because of soil impacted with organic lead. Developed innovative soil treatment program using soil mixing with a solution of potassium permanganate to oxidize the organic lead and other materials to physically stabilize the soil and inhibit groundwater infiltration into the required excavations. Designed and built tools to conduct the shallow soil mixing (up to about 15 feet below ground surface) and modified drilling rig to conduct the mixing. Implemented field program which had to be conducted with all of the high-pressure water lines for the firefighting system to avoid plant shut down. Succeeded in creating a safe environment that allowed excavation and repair/ replacement of firefighting system rapidly and without incident.

- Selected Oil and Gas Facility Closures:
 - Conducted two saltwater release assessments and cleanups in south Texas.
 - Conducted an oily water release and NORM cleanup in south Texas.
 - Conducted oily water and saltwater releases in south Texas.
 - Conducted compressor station assessment and cleanup in east Texas.
- RCRA Permit Renewal Application for petrochemical facility in Port Lavaca, Texas area. Developed various reports for the Part B renewal application for the company's existing hazardous waste permit. Provided QA/QC review of entire permit application. The project included revising closure and post-closure plans and the development of updated closure/post-closure costs and schedules.
- RCRA Permit Renewal Application for foundry and pipe company in northeast, Texas. Oversaw development of facility groundwater and geology reports for the Part B renewal application for the company's existing hazardous waste permit. Provided QA/QC review of entire permit application. The project included revising closure and post-closure plans and the development of updated closure/post-closure costs and schedules.

PROFESSIONAL TRAININGS

PAR Group's "Leadership, Management, and Coaching"

VASS Training for Marketing, including "Soft Selling in a Hard World"

Shipley and Associates Course in "Writing Winning Proposals & Winning Work"

40-hour OSHA Certified (1910.120)