

Biographical Summary

David E. Langseth, Sc.D., P.E., D. WRE, Principal

Dr. Langseth is a registered professional engineer with 30 years domestic and international experience in consulting and academic settings. He has led investigations, feasibility studies, risk assessments, and remedial actions at NPL and RCRA sites and for mergers and acquisitions. Facility types have included chemical/petrochemical, mineral mining/processing, manufactured gas, and waste disposal. Dr. Langseth has dealt with a wide variety of contaminants, including mercury, other heavy metals, chlorinated solvents, pesticides, PCBs, dioxins, and hydrocarbons. He has also performed water supply planning and environmental impact studies. Dr. Langseth has provided expert support and testimony for litigation issues surrounding chemical fate and transport, groundwater supply and contamination, remediation programs, and water quality management. Additionally, he has supported cost allocations and performed numerous environmental audits and environmental management system assessments for major industrial corporations. Dr. Langseth earned his Sc.D. in Civil Engineering from MIT and his B.A. in Mathematics from the University of Minnesota.

Representative Projects

Chemical Manufacturing Plant: Provided expert testimony related to the sources, transport, and fate of chemicals alleged to have caused property damage and personal injury.

Municipal Water Utility: Provided expert testimony in an interstate dispute over a major regional aquifer. Evaluated aquifer data, prior reports, flow directions and rates, and water budgets. Prepared a 3-D numerical flow model.

Mercury Processing Facility: Developed and successfully negotiated site management strategy, evaluated contaminant fate and transport, and managed the investigation at a mercury processing facility on an estuary in New Jersey. Provided expert testimony.

Agricultural Chemicals Plant Decommissioning: Provided guidance, work plan review, and field oversight for the decommissioning of an agricultural chemicals plant in Bhopal, India.

Sediment Remediation Cost Allocation: Evaluated the relative contributions of various sources in support of a cost allocation mediation. Integrated available plant data, historical literature, site investigation data, and chemical fate/transport into comprehensive analysis.

Natural Gas Pipeline Systems: Evaluated historical waste management practices, site characterization, and remediation cost estimates for three natural gas pipeline systems. Key contaminants of interest included PCBs, mercury, and petroleum hydrocarbons. Supported settlement negotiations and provided expert testimony.

Multi-site Remediation Program: For US EPA, led RI/FS, remediation criteria development, remedy design, remedy cost analysis, and remedy implementation activities at 14 NPL sites.

MGP Site Management: Performed site characterization, contaminant fate and transport evaluation, and risk assessment at former manufactured gas plant sites.

Corporate Remediation Program Evaluation: Evaluated program structure, project management, project budgeting, reserve estimation, staffing, program evaluation, and reporting. Interviewed 15 companies for benchmarking study.



Practice Areas & Expertise

- Contaminant Fate & Transport
- Surface & Groundwater Hydrology
- Water Quality Evaluation
- Site Remediation Strategy
- Environmental Liability Evaluation
- Cost Allocation

Education

Sc.D., Civil Engineering, MIT

S.M., Civil Engineering, MIT

B.C.E., Civil Engineering, University of Minnesota

B.A., Mathematics, University of Minnesota

Selected Publications

Langseth, DE. 2009. "Environmental media phase-tracking units in the classroom." *Journal of Geologic Education* 57(3):206-213.

Langseth, DE. 2009. "Remedial cost allocation cash out valuation under uncertainty." *Environmental Claims Journal* 21(1):62-72.

Langseth, DE. 2008. "Valuing environmental remediation liability transfers." *Environmental Claims Journal* 20(1):2-22.

Langseth, DE. 2007. "Environmental liability estimation: Gradient survey shows range of practices and uncertainty in key issues." *American Bar Association Special Committee on Environmental Disclosure Newsletter* 4(1):5-10.

Langseth, DE; Smyth, AH; May, J. 2004. "A method for evaluating horizontal well pumping tests." *Ground Water* 42(5):689-699.

Smyth, AN; Silva-Tulla, F; Langseth, D; Kozik, M. 1996. "Innovative and traditional site investigation and remedial technologies." XIV Seminario Venezolano de Geotecnia.

Langseth, DE; Lambe, RN. 1995. "Remediation management: improving performance and getting results." *Prism*, 4th Quarter 95 p103-112.



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