



Stephen J. Cullen, Ph.D., P.G.

Senior Vice President and Principal Hydrogeologist

Dr. Stephen J. Cullen is a Senior Vice President and Principal Hydrogeologist at DBS&A.

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Education

Ph.D., University of California, 1996
Dissertation: *Field and Laboratory Investigation of Contaminant Natural Attenuation and Intrinsic Remediation in Soils and the Vadose Zone*

M.Sc., Soil Physics

Montana State University, 1981

B.Sc., Soil and Hydrology

University of California, 1977

Professional Registrations

Professional Geologist

No. 7399, California

Certified Environmental Manager

No. 1839, Nevada

Certified Professional Soil

Scientist, No. 03169, ARCPACS



***Daniel B. Stephens
& Associates, Inc.***

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Dr. Cullen assists clients by providing hydrogeologic expertise on projects and legal matters ranging from water resources to agriculture to multiphase contaminant hydrogeology. He has over 35 years of experience providing expert consultation on a wide range of project topics. His environmental expertise and experience involves evaluation of soil and groundwater impacted by chlorinated solvents, petroleum hydrocarbons, metals, pesticides, perchlorate, PCBs, dioxins, and furans, and a number of inorganic compounds. He has studied the vapor migration pathway for over 20 years and provides clients with rigorous evaluation of indoor vapor intrusion by solvents and petroleum hydrocarbons. His indoor vapor intrusion reports have received favorable reviews by the California Department of Toxic Substances Control (DTSC) and the Office of Environmental Health Hazard Assessment. He has also studied and testified on indoor vapor intrusion, contaminant source identification, chemical fate and transport, agricultural pesticide migration, responsibility allocation, and remedial cost estimation and allocation.

In water resource investigations, Dr. Cullen has expertise and experience in groundwater basin analysis, evaluating recharge and safe yield, regional water quality investigations, managed aquifer recharge, hydrologic monitoring programs, vadose zone characterization and modeling, and applied groundwater modeling. His project and testimonial experience ranges from urban to forest and agricultural settings.

Dr. Cullen is a former faculty member at the University of California, Santa Barbara, and Montana State University. He has published articles in peer-reviewed journals, made presentations at numerous technical conferences, and provided training to the United Nations, the U.S. Environmental Protection Agency, the U.S. Departments of Defense and Energy, and many state and local government agencies.

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Dr. Cullen is familiar with and experienced in a number of California hydrogeologic settings. He has worked on numerous complex soil and groundwater contamination sites including the Gibson Superfund Site, the Omega Superfund Site, the North Hollywood Operable Unit of the San Fernando Valley Superfund Site, the Antioch Landfill, the Brown and Bryant Superfund site, and the Henderson (Nevada) Perchlorate Site. To support clients on a variety of issues, he has reported to and participated in negotiations with the U.S. EPA, the California Department of Toxic Substances Control (DTSC), and various Regional Water Quality Control Boards, and he has testified before the California State Water Resources Control Board. Dr. Cullen has conducted work to ensure compliance with the National Contingency Plan (NCP), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), California Environmental Quality Act (CEQA), DTSC's Preliminary Endangerment Assessment Guidance, and DTSC's Vapor Intrusion Mitigation Advisory.

Dr. Cullen has worked with and represented clients from many economic sectors. He has served on national and state expert panels, and has provided expert reports, deposition, and courtroom testimony in state and federal legal matters. Recently, he provided testimony in U.S. District Court regarding the fate and transport of a pesticide in a matter defended by the U.S. Department of Justice, and in California Superior Court on the impacts of long-term aquifer overdraft on groundwater levels, recharge capacity, well field efficiency, well yields, energy consumption, and regional water quality. Dr. Cullen is keenly aware of his target audience and he has developed a reputation for his ability to successfully tackle complex problems and for his capacity to communicate very technical subject materials in terms and concepts that can be readily absorbed and appreciated by fact finders and a wide audience.



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