

STUART W. CHILDS, Ph.D.

Education

B.S. Geology, Stanford University, 1971

M.S. Soil Science and Biometeorology, Utah State University, 1975

Ph.D. Soil Science, Washington State University, 1980

Registrations

Oregon Registered Professional Geologist No. G1211, 1992

Washington Licensed Hydrogeologist No. 1593, 2002

Professional Experience

Stuart Childs is a hydrogeologist and vadose zone specialist with over 30 years of experience, including 10 years as a research professor at Oregon State University and extensive consulting experience in the United States and Canada. His hydrogeology focus emphasizes near-surface impacts and soil/unsaturated zone measurements, modeling and analysis. Areas of expertise include microclimatology and hydrology of irrigation and land application sites, wastewater management, groundwater-surface water interactions, and soil science/agriculture. Dr. Childs has particular expertise in soil water management, irrigation scheduling for groundwater protection, and water and nutrient recycling via land application for industries, municipalities and large agricultural operations. Of special note is his expertise in groundwater antidegradation analysis, soil salinity, nitrogen management, waste management, and recycling via land application.

1999 - Present: **Kennedy/Jenks Consultants, Portland, Oregon, Senior Scientist**

Projects: Over 15 groundwater antidegradation analyses since 2008 for land application and percolation basin discharges for food processors, wineries, oil companies, municipalities, and Irrigation Districts; vadose zone monitoring studies for land application discharges.

1996 - 1999: **Tetra Tech EMI, Portland, Oregon, Office Manager**

Projects: Wastewater discharge permitting, hydrogeologic studies, and land application management plans for food processors; forest land application discharge analysis and permitting for a municipal treated effluent discharge.

1988 - 1996: **Cascade Earth Sciences, Portland, Oregon, Principal Scientist**

Projects: Hydrogeology studies, land application system design, and permitting for municipalities and food processors; manure and food processor solid waste land application programs; Unsaturated zone analysis, hydrologic modeling, and calculations of net infiltration at the proposed High-Level Radioactive Waste Repository, Yucca Mountain, Nevada.

1979 - 1988: **Oregon State University, Corvallis, Oregon, Assistant Professor**

Projects: Applied research in reforestation heat and water microclimate for water-limited forest clear-cuts and replanting environments; unsaturated zone flow models and water balances for forests and agricultural crops, heat and water transport for aquifer thermal energy storage, modeling of groundwater – surface water interactions for alternative riparian vegetation management practices. Taught graduate/undergraduate courses in soil physics, soil-plant water relations, and soil monitoring methods; Over 75 refereed publications, reports, manuals, workshops and invited presentations.

Expert Witness Experience

2007 - Hood River Juice Company, Oregon – Technical support for witness deposition.

2008 - AgriPlas Recycling, Oregon - Court room expert testimony regarding site impacts from wastewater discharges from a neighboring food processor.

1995 - Court room expert testimony regarding irrigation management and groundwater impacts near a water supply for a Fish Hatchery.

1993 - Court room expert testimony regarding groundwater flow and transport from a Food Testing Laboratory's wastewater discharge to a septic tank - drain field system.