

Jill S. Betts, R.G.

COLES & BETTS ENVIRONMENTAL CONSULTING, LLC

750 S. Rosemont Road, West Linn, Oregon 97068 • 503.819.2835 • hydrogeojill@gmail.com

HIGHLIGHTS OF QUALIFICATIONS

Over 16 years experience assisting private and government clients with regulatory compliance, environmental assessments, and remediation projects for a variety of residential, commercial, agricultural, and industrial facilities. Experience includes remediating sites with varying complexities that were contaminated with petroleum products, pesticides, solvents, heavy metals, and aluminum dross fill. Successfully completed risk assessments, UST decommissioning and investigation projects, UIC compliance projects, NEPA compliance, and NPDES compliance and training. Outstanding customer service skills and project management skills include completing projects on or under budget, and within the required timeframe.

PROFESSIONAL REGISTRATIONS

Oregon Registered Geologist and Washington Professional Geologist since 2005

EXPERIENCE

Principal

October 2014 - Present

Coles & Betts Environmental Consulting, LLC

- Continue to provide outstanding customer service to new and existing clients, as well as assist clients with their regulatory compliance and/or facility needs.

Contract Geologist

July 2008-October 2014

Coles and Associates, Inc., West Linn, OR

Coles Environmental Consulting, Inc., West Linn, OR

Assessment Associates, Inc., Portland, OR

RSV Engineering, Inc., Charbonneau, OR

Saga Environmental & Engineering, Inc., Charbonneau, OR

PNG Environmental, Inc., Tigard, OR

- Completed numerous Phase I and II ESAs for industrial, commercial, agricultural, residential, and undeveloped properties in Oregon and Washington.
- Successfully identified PRPs by researching historical records and conducting interviews at various private, non-profit, and government institutions in Oregon and Washington. Findings were compiled in reports and/or databases. PRP research projects were completed independently, or by managing a team of researchers.
- Project work included:
 - Project Manager for spill remediation, subsurface investigation, and groundwater monitoring activities at an industrial facility.
 - Field supervisor for Chemical Oxidant Application at a former service station.
 - Field supervisor for the installation of over 20 CMT groundwater monitoring wells for a large solvent-plume monitoring project.
 - Coordinating the fulfillment of various municipal, state, and federal requirements, project team members (biologists, construction contractors, land use attorney, and engineer) for a \$1 million dollar remediation project.

Part-Time General Science and Geology Instructor

2008 - 2014

Portland Community College, Sylvania Campus, Portland, OR

Jill S. Betts, R.G.

COLES & BETTS ENVIRONMENTAL CONSULTING, LLC

750 S. Rosemont Road, West Linn, Oregon 97068 • 503.819.2835 • hydrogeojill@gmail.com

- Taught Geology and General Science (oceanography and meteorology) courses. Developed hybrid, on-line General Science Sequence (geology, oceanography, and meteorology) D2L course shells that allowed students to view lectures and participate in interactive activities before attending their lab class on campus.
- Experienced at developing and designing on-line, in-classroom, and field-based laboratory exercises. Designed and led numerous geology field trips around the Portland metropolitan area, and oceanography field trips along the Oregon Coast.
- Campus liaison for NSF UCORE Grant where PCC students went to the University of Oregon campus for a paid research internship, and returned to PCC to conduct outreach such as helping others succeed in science and math.

Project Manager

2000-July 2008

Hahn and Associates, Inc., Portland, OR

Senior Project Manager	May 2008
Project Manager	2005-2008
Senior Environmental Scientist	2001-2005
Environmental Scientist	2000-2001

- Skilled at project scoping and coordination, contract and budget preparation and tracking, technical assistance and oversight, and report preparation for a wide variety of projects such as:
 - Portland Harbor Uplands Source Control Evaluations, Brownfield remediation activities, UIC compliance and remediation, NPDES compliance and training of clients' employees, Dry cleaners investigations, Industrial solvent releases, persistent pesticides, LUSTs, Phase II ESA investigations, and Risk-Based Closures.
 - The assessment, risk evaluation, and remediation of subsurface materials prior to and during various construction projects.
 - Compliance with SPCC, TSCA, NPDES, and Industrial Wastewater Discharge Permits.
- Successfully obtained NFAs from Washington Ecology and Oregon DEQ for numerous industrial, commercial, urban residential, and residential properties within State Cleanup, UIC, and UST programs
- Experience with groundwater monitoring at LUST sites in OR, WA, and CA
- Conducting Hahn employee training and mentoring, and review of proposals and reports
- Achieved FCC-NEPA compliance for at least 100 cell tower/antennae sites, including coordination of MOUs and EAs with SHPO and USFWS
- Completed Phase I ESAs, as well as Environmental Reviews and Audits
- Health and Safety Committee Chairperson
- Selected project highlights include:
 - Uplands Source Control evaluation for industrial site that included site investigation, groundwater monitoring, and remediation activities related to on-site UICs, multiple historic property uses, as well as determining whether an adjacent property's solvent release, rather than historic property use, has impacted groundwater on-site. Also includes Source Control Document preparation.
 - Remediation and risk assessment of historical contamination and UICs encountered during construction of Pearl District multi-use building. Successfully coordinated field sampling and remediation activities with construction company,

Jill S. Betts, R.G.

COLES & BETTS ENVIRONMENTAL CONSULTING, LLC

750 S. Rosemont Road, West Linn, Oregon 97068 • 503.819.2835 • hydrogeojill@gmail.com

determined risks to construction worker and future occupants and workers, and prepared Risk Evaluation Report.

Geologic Associate

1999-2000

Spencer Environmental, Inc., Portland, OR

- Responsible for proposal preparation, planning, budget tracking, and coordination of field activities associated with emergency response services, residential and commercial UST decommissionings, site investigations, and remediation activities
- Performed aquifer characterization and quarterly groundwater monitoring activities at residential and commercial sites
- Instructed realtors about UST decommissioning process and site cleanup requirements

Staff Hydrogeologist

1998-1999

L. Robert Kimball and Associates, Inc., Ebensburg, PA

- Completed monitoring well installation, development, and groundwater sampling at former municipal landfill, and waste characterization activities at C&D landfills for NJDEP
- Performed geologic mapping of joint sets for PennDOT Allegheny Tunnels project
- Completed geotechnical investigation at Penn State campus building construction project
- Prepared and completed Work Plans, Injection Test and Treatment Process and Evaluation Reports, Field Sampling Plans, QAPs, SOPs, Field Sampling and Testing Reports, and Environmental Impacts Report for various government clients
- Participated in team effort to construct Groundwater Vistas model for an injection well

EDUCATION

- Master of Arts, Geology, Temple University, Philadelphia, PA (1998)
- Bachelor of Science, Geology, State University of New York at Albany (1995)

COMPUTER SKILLS

Experience with RockWorks, EQulS, gINT, FileMaker Pro, Microsoft Word, Excel, PowerPoint, WATEQ, NETPATH, MODFLOW, GWVistas, WMS, AQTESOLV

PROFESSIONAL AFFILIATION AND PROFESSIONAL TRAINING

- Northwest Environmental Business Council, Women in Environment, Geological Society of America, Association for Women in the Geosciences
- DEQ UIC Program Information Session (2008), RockWorks Workshop (2007), Principals of Environmental Remediation (2006), McCoy RCRA Fundamentals (2002), Contaminant Fate and Transport (2001), OSHA 40-Hour Certification

PRESENTATIONS AND PUBLICATIONS

- Oregon 2014 Brownfields Conference – Nuts and Bolts of Field Work Session Panelist
- Masters Thesis: Investigation of Vadose Zone Geochemistry in the Hornerstown Formation, Hornerstown, New Jersey

Jill S. Betts, R.G.

COLES & BETTS ENVIRONMENTAL CONSULTING, LLC

750 S. Rosemont Road, West Linn, Oregon 97068 • 503.819.2835 • hydrogeojill@gmail.com

- Betts, Jill and Grandstaff, D.E., 1997, Investigations of Vadose Zone Hydrogeochemistry in the Hornerstown Formation, Hornerstown, New Jersey, *1997 Meeting Program with Abstracts, The Geological Society of America 32nd Annual Meeting Northeast Section, Vol 29:1, February 1997*
- J.S. Betts, and D.E. Grandstaff, 1997, Geochemical Evolution of Vadose Zone Waters in the Cretaceous Hornerstown Formation, Hornerstown Formation, Hornerstown, New Jersey, *1997 Spring American Geophysical Union Meeting Program with Abstracts*
- J. Betts and D.E. Grandstaff, July 2001, Glauconite Dissolution Rates and the Chemical Evolution of Vadose Waters in the Hornerstown Formation, Hornerstown, New Jersey, *Proceedings of the Tenth International Symposium on Water-Rock Interaction, Volume 1, 2001*