

KIMBERLY L. DAVIS, PhD, PE, PMP

SUMMARY

Ms. Davis is an established environmental engineer with over 30 years of experience in providing strategy and implementation guidelines for various environmentally focused projects. Ms. Davis has over the years provided her specialized expertise to various, State, Federal and Private Agencies, including the DOE/NNSA, DOD, EPA, USACE, NSF, NIEHS, and NASA on specialized environmental projects. Ms. Davis's expertise covers a wide array of matters, including but not limited to the following areas:

- US National Regulatory Commission (NRC) Safety Culture analysis
- Training for Environmental Safety & Health Protocols and US Department of Defense (DOD) Emergency Response
- Statistical Techniques
- Survey Design and Reporting
- Environmental Auditing of US Department of Energy (DOE) Waste Management Vendors
- Brownfields Phase I/II Site Assessment
- Remedial Investigation/Feasibility Studies (RI/FS)
- Soil and Groundwater Remediation
- Resource Conservation and Recovery Act (RCRA) Closures
- Spill Prevention, Control and Countermeasure (SPCC) Plan Review
- National Pollution Discharge Elimination System (NPDES) Permit Compliance

EDUCATION

Doctor of Philosophy in Sociology with an emphasis in Environmental Policy; University of Tennessee, 2011

Master of Science in Environmental Engineering with an emphasis in Water/Wastewater Treatment; Clemson University, 1988

Bachelor of Science in Chemical Engineering; Clemson University, 1984

REGISTRATIONS & CERTIFICATIONS

Licensed Professional Engineer in the following States:

- Colorado (46408)
- New Mexico (20935)
- Tennessee (22990)
- Texas (121077)

Project Management Professional (2015-Present)

PROFESSIONAL ASSOCIATIONS

Member, Knox County Solid Waste Board (2012-Present)

Member, City of Knoxville Board of Environmental Appeals (2004-2013)

Board Member and President, City of Knoxville Tree Board (2006-2014)

President, Knoxville Technical Society (2002)

Board Member and Chair, Three Rivers Market Food Co-Op (2006-2014)

Board Member and Instructor, Knoxville Rowing Association (2001-Present)

CONTINUING EDUCATION

Additional Courses and Certifications completed in the following areas:

- 40-hour Hazardous Waste Operations Training and yearly refreshers (2018-Present)
- Fundamentals of Erosion Prevention and Sediment Control (2017)

- OSHA 10-hour General Industry Safety and Health (2017)

CAREER HISTORY

FORCON International – Environmental Engineer

Conducting forensic investigations and expert witness services as it relates to her fields of expertise.

Edgewater Technical Associates – Senior Environmental Engineer

Seconded to UCOR, Oak Ridge Reservation (ORR) DOE contractor. Manage environmental compliance for CERCLA, RCRA and TSCA waste generated during soil and water remediation associated with ORR demolition of legacy facilities. Develop Data Quality Objectives; plan performance testing for water treatment; develop SWPP controls, and review sampling data results, work packages and JHAs. UCOR National Environmental Policy Act (NEPA)/National Historic Preservation Act (NHPA) coordinator. RCRA waste subject matter expert.

Pro2Serve – Project Coordinator, Annual Site Environmental Report (ASER)

Project Coordinator for the development of the ASER, an annual comprehensive report addressing all environmental programs and activities at the DOE ORR consisting of three major federal installations located on approximately 37,000 acres in East Tennessee.

City of Knoxville, Tennessee – Stormwater Engineer

Engineer supervising field technicians and preparing plans, specifications, policies, educational materials and contract documents for municipal construction and maintenance projects supporting NPDES MS4 permit compliance.

Oak Ridge Associated Universities (ORAU), Health, Energy, and Environment – Risk Analyst Specialist

Project Coordinator and Quality Manager for safety culture assessments of DOE organizations through ORAU's Occupational Exposure and Worker Health Studies Program.

Spectra Tech, Inc. – Senior Environmental Engineer

Engineer managing project teams, developing business, and providing direct support to existing federal contracts in Spectra Tech's Oak Ridge office. Executed and oversaw RCRA/TSCA/air quality permitting, environmental regulatory compliance tracking, waste management audits, Phase I/II site investigations, quality assurance, procedure writing, emergency response training and SPCC program review.

University of Tennessee (UT Waste Management Research and Education Institute) – Associate Director

Project director on several State, EPA, and privately funded research projects to examine trends in site characteristics, cleanup technologies, regulator constraints, and other descriptive factors to inform decision-makers on cost-effective ways to manage CERCLA and petroleum underground storage tank (UST) site remediation. Co-director of several projects funded by NSF, NASA, and NIEHS focusing on outreach to communities, educators, and students about environmental issues worldwide. Developed GIS-derived ecosystem management model mining social/demographic data to quantify potential stakeholder acceptance of proposed natural resource planning strategies.

International Waste Management Systems – Project Engineer

IWMS project manager for UST removal/remediation projects for various private and governmental clients; designed, oversaw installation, and maintained groundwater pump and treat systems as part of corrective action of UST and RCRA sites; budgeted, supervised and oversaw report preparation for tank removal activities, environmental assessments, and corrective action.

Engineering-Science – Environmental Engineer

Prepared work plans for UST site assessments, reviewed analytical data from soil samples, and developed Corrective Action Plans outlining proposed remediation activities for submittal to the Illinois Environmental Protection Agency. Lead engineer on RI/FS work at the Minnesota Air National Guard Base in Duluth as part of DOE's Hazardous Waste Remedial Actions Program. Developed and evaluated remedial alternatives for feasibility

FORCON INTERNATIONAL

studies; prepared baseline health risk assessments using EPA methodologies; collected samples of surface soil, borehole cores during monitoring well installation, groundwater, surface water, and sediments.

Bechtel National – Environmental Compliance Specialist

Developed a site-wise NPDES permit renewal application for DuPont at the Savannah River Site in SC; identified 71 outfalls and worked with DOE representatives to compile monitoring data to recommend discharge standards. Responsible for permit acquisition and compliance, collecting groundwater samples, and compiling monitoring data for DOE's Formerly Utilized Sites Remedial Action Program.

PUBLICATIONS

Author and co-author of research reports in a variety of academic journals including Society & Natural Resources, Remediation, and Applied Biosafety. (For a complete listing of these articles, please click here <http://tinyurl.com/yc3nfyv>).

PRESENTATIONS

For a complete listing of presentations, please click here (<https://tinyurl.com/y8785syu>).