AquAeTer

optimizing
resources | water, air, earth

CHRISTINA B. BROWN, P.E., BCEE

EDUCATION:

B.S., Chemical Engineering, University of Colorado, Boulder, 1996
M.E. candidate, Civil and Environmental Engineering, Vanderbilt University, (expected 2018)

PROFESSIONAL LICENSES:

Professional Engineer, Tennessee
Board Certified Environmental Engineer

PROFESSIONAL MEMBERHIPS AND AFFILIATIONS:

American Institute of Chemical Engineers (AIChE)

CURRENT PROFESSIONAL INVOLVEMENT: 2003 - present, **AquAeTer**, Project Engineer

Ms. Brown has 20 years of diverse experience in chemical and environmental engineering. Her current projects include chemical process development, chemical transformations for fate and transport analyses, environmental sampling, regulatory compliance, environmental site assessments, and environmental litigation support. She is experienced in groundwater remediation, and sampling and analysis of air, groundwater, surface water, soil and sediments. She has been involved in wastewater system optimization and upgrades, technical document preparation, bench and pilot-scale system testing, process modeling and optimization, process design and budget preparation.

She has recently worked on Monte Carlo closure cost analyses for a nuclear plant closure. She also has five years of experience in radiological waste treatment and processing, including development of technical baseline documents for radiochemical processes. Her computer skills include database management and programming in SQL and Visual Basic.

PRIOR PROFESSIONAL INVOLVEMENT:

2001-2002 Lucent Technologies, Atlanta, GA, Member of Technical Staff
1996-2001 Westinghouse Savannah River Company, Savannah River Site, Aiken, SC, Engineer

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AREAS OF EXPERTISE:

<u>Environmental Investigation/Remediation</u>
Groundwater Investigations
Soil Investigations and Sediment Surveys
Aquatic Toxicity Testing & Analysis
Bench & Pilot-Scale Studies
Chemical Kinetics Studies
Fate and Transport Analysis
Human Health Risk Assessment
Site Conceptual Models
Groundwater Remediation
Bioremediation
Design of Experiments
Air Emission Calculations
Sampling and Monitoring

<u>Quantitative and Statistical Analysis</u>
Analytical Method Selection
Data Analysis and Validation
Statistical Analysis
Database Design & Management

<u>Industrial</u>
Chemical Processing
Wood Treatment
Nuclear Waste Remediation
Chemical Hazard Analysis
Solid and Liquid Waste Characterization
Environmental Site Assessments
Sara Form R Reporting
Toxic Equivalency of Dioxins and Furans