

MILES E. WAITE, PhD, PG
Senior Hydrogeologist, Owner



Mr. Waite has been working in the environmental consulting industry for over thirty years. He is the owner of Waite-Heindel Environmental Management and oversees all company operations. A portion of his work load includes clean water hydrogeology, where his areas of expertise include hydrogeologic investigations, water supply siting and permitting, wastewater system design and permitting, stormwater flow and drainage studies, and land development (Act 250) permitting. He is just as frequently involved in contaminant projects, where he conducts environmental site assessments, Brownfields site assessments and contaminated site redevelopment, contaminated soil and groundwater management, remediation system design and installation, soil vapor intrusion evaluations, and indoor air quality testing.

EDUCATION

B.A., Environmental Studies, Minor in Geology, University of Vermont, 1991.
Ph.D., Geology, University of Colorado, 1998.

**PROFESSIONAL
EXPERIENCE**

- **President & Principal Hydrogeologist, Waite Environmental Management, LLC (2003-2012)**
Operated consulting company and managed projects involving environmental site assessments, wastewater, water supply, and land development permitting and expert testimony, and hazardous site investigation and remediation.
- **Adjunct Lecturer, University of Vermont, Plant and Soil Science (2014 - 2017)**
Taught upper level class entitled *Soil and Groundwater Pollution and Bioremediation* (PSS 269)
- **Senior Hydrogeologist, Griffin International, Inc., Williston, Vermont (2001 – 2003)**
Managed and conducted projects involving hydrogeologic investigations, groundwater supply development projects, environmental site assessments, Brownfield redevelopment, site remediation, and hazardous waste site management.
- **Senior Hydrogeologist, Heindel and Noyes, Burlington, Vermont (1998-2001)**
Managed a variety of projects with a focus on site investigation and remediation. Responsible for conducting and overseeing field investigations of hazardous waste sites, hydrogeologic investigations, design and operation of remediation systems, Phase I & II Environmental Site Assessments, and underground storage tank closure inspections.
- **Graduate Student, University of Colorado, Boulder, Colorado (1993-1998)**
Completed Ph.D. in Geological Sciences. Concentration of research was on computer modeling of water flow in fractured rocks. Employed by the University as a Research Assistant and as a Teaching Assistant.
- **Hydrogeologist/Geochemist, Shepherd Miller, Inc., Fort Collins, Colorado (1994)**
Analyzed groundwater and surface water quality data on several large-scale mining projects in Colorado. Specialized on surface water geochemistry and groundwater-surface water interaction.
- **Staff Geologist, McCulley, Frick & Gilman, San Francisco, California (1991-1993)**
Conducted field investigations of hazardous waste sites, groundwater sampling, remediation system operation and maintenance, data analysis, and report preparation.

**PROFESSIONAL
AFFILIATIONS &
CERTIFICATIONS**

Licensed Designer, Type BW, State of Vermont
Licensed Professional Geologist, State of New Hampshire #745; State of New York #1004
40-Hour Trained OSHA 29 CFR 1910.120 Hazardous Waste Site Operations
Certified Class 2 Water System Operator
Board Member - Vermont Environmental Consortium
Board Member – Burlington Conservation Board
Conservation Member – Chittenden County Regional Planning Commission
Member - National Groundwater Association
Member – American Institute of Professional Geologists
Member – Lake Champlain Regional Chamber of Commerce

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**PROFESSIONAL
DEVELOPMENT**

- NEWMOA workshop – *PCBs in Building Products: Implications for Brownfields*, October 2020.
- NEWMOA virtual workshops – *Understanding PFAS Fate and Transport* (June 2020), *PCBs in Building Materials* (October 2020), *Understanding TSCA for Sites with PCBs* (October 2020).
- American Institute of Professional Geologists – VT AIPG National Conference, Burlington, Vermont September 2019.
- Winooski Natural Resources Conservation District, *Erosion Control Workshop*, Richmond, Vermont, June 2019.
- National Ground Water Association, *Conference on Fractured Rock*, Burlington, Vermont, September 2011, October 2013, September 2015, Sep 2017, Sept 2019
- NOWRA & VT ANR, Onsite Wastewater Systems Installer Training, March 2017
- Vermont Natural Shoreland Erosion Control Certification class, January 2016
- Northeast Waste Management Official's Association (NEWMOA), *Vermont Vapor Intrusion Updates*, Montpelier, May 2014.
- Vermont DEC Green Infrastructure Initiative, *Raising the Bar: Green Stormwater Infrastructure Planning and Design*, South Burlington, April 2014.
- Vermont Technical College and University of Rhode Island, *Innovative and Alternative Wastewater Technologies Workshop* (October 2012) and High Strength Wastewater Workshop (October 2013).
- National Ground Water Association, *Hydraulic Fracturing of the Marcellus Shale*, Baltimore, Maryland, May 2011.
- Wastewater Technologies, Inc., *AdvanTex Designer Training*, South Burlington, March 2010.
- Heatspring Energy Institute, *Geothermal Training for Building Professionals: Planning & Designing Systems*, Boston, February 2009.
- US EPA, *Triad Investigations, New Approaches and Innovative Strategies*, University of Massachusetts, Amherst, June 2008.
- National Ground Water Association, *Science and Myths of Indoor Inhalation Pathway*, Portland, Maine, September 2007.
- American Council of Engineering Companies, *Field Description of Soil Properties and Estimating Seasonal High Water Table* refresher course, May 2007.

PUBLICATIONS

- Gaynor, Deborah, M. Waite, G. Noyes, and K. McKracken, *Working Together: How Effective Teamwork Improved the Quality and Usability of Air Monitoring Data*, paper presented at the National Environmental Monitoring Conference, Washington, D. C., August 2010.
- Waite, Miles E. and Deborah Gaynor, *Anticipating Data Needs for a Brownfields Site Assessment*, **New England's Environment**, vol. 10, no. 2, March/April 2004 .
- Waite, Miles. E, S. Ge., and H. Spetzler. *A New Conceptual Model for Fluid Flow in Discrete Fractures: An Experimental and Numerical Study*, **Journal of Geophysical Research**, vol. 104, no. B6, pp.13049-13059, June 1999.
- Waite, Miles E., Fluid Flow in Discrete Fractures: An Experimental and Lattice Gas Automata Modeling Study, Ph.D. Thesis, University of Colorado, July 1998.
- Waite, Miles E., S. Ge., H. Spetzler, and D. Bahr, *The Effect of Surface Geometry on Fracture Flow: A Case Study Using a Sinusoidal Fracture*, **Geophysical Research Letters**, vol. 25, no. 6, pp. 813-816, 1998.
- Waite, Miles E. and S. Ge, *Fluid Flow in a Sinusoidal Fracture: A Numerical and Experimental Investigation Into the Control of Geometry on Fracture Permeability*, **EOS Trans. AGU**, 78(46), Fall Meeting Supplement F453, 1997.