

CAROL A. WHITE
Consulting Hydrogeologist

EDUCATION

B. A. in Geology, 1979, Colby College, Waterville, Maine
M.S. in Environmental Science and Engineering, 1991, Oregon Graduate Center, Oregon

ADDITIONAL STUDIES (partial list)

Treatment of Arsenic in Public Drinking Water Supplies, U.S. EPA and Maine Department of Human Services, Augusta, Maine, September 2003

Arsenic in New England, Dartmouth College, NH DEP, U.S. EPA and U.S.G.S., Manchester, N.H., May 2002

Intrinsic and Insitu Remediation, Cherry and Blowes, University of Waterloo, 1997
Applied Groundwater Modeling, GeoTrans, 1989

Practical Aspects of Flow Through Fractured Rocks, S. Neuman, U. of Arizona, 1987
Contaminant Migration Processes, John Cherry, 1986

Computer Modeling of Groundwater Flow, Mary Andersen, U. of Wisconsin, 1986

PROFESSIONAL REGISTRATIONS

Certified Geologist, Maine
Professional Geologist, New Hampshire

EMPLOYMENT HISTORY

C.A. White and Associates, Yarmouth, Maine Principal of Consulting Firm specializing in water supply, groundwater contamination and hazardous waste investigations. Has operated women-owned business for 18 years

Sevee and Maher Engineers, Inc., Cumberland, Maine—Senior Hydrogeologist 1990 to present
R. G. Gerber, Inc., Freeport, Maine, Staff Geologist, 1981-1984

AFFILIATIONS

Geological Society of Maine (Past President)
National Association of Groundwater Scientists and Engineers

TEACHING EXPERIENCE OR INVITED SPEAKER

EPA Workshop on Petroleum Remediation in Bedrock, Portland, Maine, 1997
EPA Groundwater Sampling Workshop, Dallas, Texas, 1993
Fate and Transport of Contaminants; University of Southern Maine, 1991
Flow Through Fractured Media, University of Wisconsin, 1989

OSHA REQUIREMENTS

C.A. White maintains all OSHA training and experience requirements for hazardous waste site work including a long-term medical monitoring program and 8-hour annual training program. Carol White has extensive hazardous waste field experience in Level B, C, and D.

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EXPERIENCE

Ms White has been responsible for a variety of hydrogeologic investigations, water supply studies, and hazardous waste investigations. She has supervised large-scale remedial investigations at several Superfund sites involving geophysical investigations, monitoring well installation, sampling and analysis of surface water, groundwater and soil; pumping tests and remedial design. She has extensive experience in contamination of fractured bedrock aquifers in New England. Projects in her various areas of expertise have included:

- Remedial investigation of groundwater extraction and treatment of multiphase contamination problems, including LNAPLs and DNAPLs in unconsolidated sediments and fractured rock
- Design and implementation of hydrogeologic and contamination assessments at hazardous waste and Superfund sites in New England, New York, New Jersey and Michigan
- Assisted in developing a prototype web-based system for the electronic transfer of groundwater data for the Maine Department of Environmental Protection
- Geochemical evaluation and geochemical modeling of landfill leachate, arsenic mobilization and post-closure mine water quality
- Evaluating sampling techniques, in particular with regard to sampling integrity; EPA advisor on development of slow purge sampling methodology
- Groundwater investigations for water supply projects including geologic mapping, analysis and interpretation of pumping test data, and delineation of source area protection zones
- Principal investigator of a multi-year groundwater study on Chebeague Island to evaluate land use impacts on groundwater quality; included assessment of septic system impacts and saltwater intrusion
- Geologic and geotechnical investigations for siting, design, licensing and closure of solid waste landfills
- Technical assistance to Maine Department of Environmental Protection and Maine municipalities

SELECTED PUBLICATIONS

Sevee, J., C. White and D. Maher, "An Analysis of Low-Flow Groundwater Sampling Methodology", *Groundwater Monitoring and Remediation*, Westerville, Ohio, Vol. 20. No.2, Spring 2000.

White, C.A., "An Evaluation of Potential Arsenic Sources at a Landfill Site in Eastern Maine", *in* proceedings to American Geophysical Union Spring Meeting, June 1-4, 1999.

White, C., "A Study of the Impact of Monitoring Well Purging and Filtering Techniques on Metals Concentrations in Groundwater Samples from the Auburn Road Superfund Site in Londonderry, N.H.", *in* EPA/600/R-4/205, U.S. EPA, Washington, D.C. 1993.

White, C., S. Pinette, B. Lewis and J. Barrett, "Clean Water for Maine's Sake", Maine Department of Environmental Protection, Augusta, Maine, 1991 (large format color poster).

White, C. and A. Hussey, "Significant Bedrock Features of the Maine Coast: Boothbay to Calais", Maine State Planning Office, Augusta, Maine, 1989.