

ABR's Aquatic Resources Division



ABR's Aquatic Resources program provides technical and scientific services to those working to manage or restore aquatic ecosystems. Our program emphasizes research and other services that further our understanding of the effects of human activities on aquatic resources and applies this expertise to aid in managing, conserving, or restoring aquatic habitats, biology, and water quality.

ABR's Staff



Michael B. Cole, Ph.D.
Senior Scientist

Dr. Cole's areas of expertise include fisheries biology, macroinvertebrate ecology and taxonomy, stream ecology, watershed science, and aquatic toxicology.

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Fisheries Biology, Aquatic Ecology

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Freshwater Biology

Todd J. Mabee, M.S.

Amphibian Ecology, Statistics

John Rose, M.S.

Fisheries Biology

John Seigle, M.S.

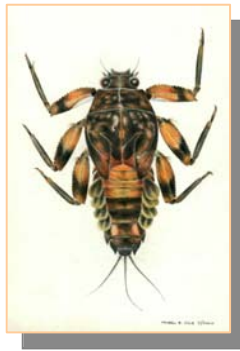
Estuarine & Stream Ecology

Adam P. Harris, B.S.

Fisheries Biology, Macroinvertebrate Lab Coordinator

Richard J. Blaha, B.S.

GIS, Watershed Assessment, Riparian Ecology, Botany



**Expert Laboratory
Services in
Macroinvertebrate
Identification**



ABR's Laboratory Services

ABR offers freshwater macroinvertebrate sample processing & identification of samples from across North America.

- All identification work performed by **NABS-certified taxonomist**, Dr. Cole with more than 13 years experience.
- Identification to any taxonomic level including Chironomidae and Oligochaeta to genus/species.
- Strict internal QA/QC
- State-of-the-art stereomicroscopy equipment.
- Trained and experienced technicians perform all sample sorting and sub-sampling.
- Samples can be shipped to ABR's east or west coast offices.
- Competitive pricing. Please call or email Dr. Cole for pricing details.

Dr. Michael B. Cole

ABR Inc—

Environmental Research & Services

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AQUATIC RESOURCES CONSULTING SERVICES

Massachusetts • Oregon • Alaska

Macroinvertebrate Bioassessment Studies

Applied Aquatic Ecology Research

Macroinvertebrate Sample
Processing & Identification

Freshwater Fisheries Research & Surveys

Stream & Watershed Restoration
Effectiveness Monitoring

Project Design, Data Analysis, &
Quality Control Plan Development



Environmental Research & Services

Applied Aquatic Ecology Research

Hydropeaking Effects Study, Deerfield River, MA

ABR is currently performing a study of the effects of hydropeaking activities on the benthic biology in the Deerfield River in western Massachusetts.

Macroinvertebrate Recolonization Study, Fenton River, CT

In 2005, ABR started a four-year study for the University of Connecticut on the effects of the drying of a reach of the Fenton River on the benthic community.

Stream Restoration Monitoring

Effectiveness Monitoring of Urban Stream Restoration Projects, Portland, OR

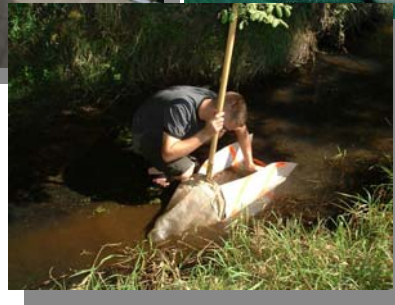
ABR is presently monitoring physical, hydrological, and biological responses to instream and riparian restoration projects occurring on several Portland-area urban streams.



Effectiveness Monitoring of Watershed Restoration Projects in the South Fork of the John Day River, OR

ABR is currently monitoring physical, chemical, and biological responses to instream, riparian, and upland restoration projects occurring in the SF of the John Day River, Oregon.

Projects and Products



Macroinvertebrate Bioassessment

Blackstone River Macroinvertebrate Assessment, MA & RI

ABR completed a study of macroinvertebrate communities throughout the Blackstone River basin to help the National Park Service develop a biological monitoring program for the watershed.

Pre-Urbanization Baseline Study of Portland-Area Streams, OR

ABR recently completed a study characterizing baseline conditions of macroinvertebrate communities and stream habitat in 40 stream reaches within the largest Urban Growth Boundary expansion in Portland, Oregon's, history.

Watershed Assessment Macroinvertebrate Study, Four Mile Brook, MA

ABR is performing a two-year study of macroinvertebrate communities in the Four Mile Brook Watershed in Northfield, Massachusetts, as part of a comprehensive assessment of the watershed.

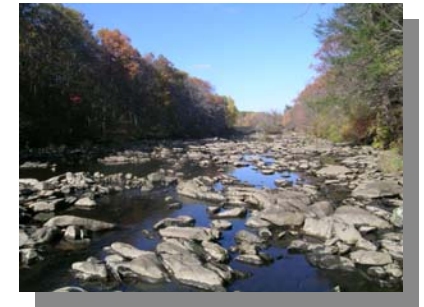
Fisheries Research & Surveys

Fish & Habitat Surveys for Water Typing Model Development, WA

ABR determined fish distribution and described the physical features within streams in the upper extents of 10 watersheds in eastern Washington. This study will aid in developing models that predict where fish use ends in forested streams.

Fish Use & Habitat Assessment of the Similkameen and Okanogan Rivers, WA

ABR recently completed a study of fish communities and physical habitat conditions in the Similkameen and Okanogan Rivers. This study will assist with river restoration, planning, and implementation efforts.



Tualatin River Basin Fish Community Surveys, OR

ABR reported on the condition of fish communities and Index of Biotic Integrity in relation to land use and instream physical and chemical conditions, in 63 stream reaches throughout Oregon's Tualatin River Basin.

For more information visit ABR at www.abrinc.com

