MARY T. McCANN

Senior Aquatic Scientist / Manager of Environmental Services
Key Grouping of Species: Dragonflies

CONTACT INFORMATION
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EDUCATION

M.S., Fisheries Biology, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, 1993

B.S., Fisheries Biology, University of Massachusetts, Amherst, Massachusetts, 1981

A.A.S., Applied Marine Biology and Oceanography, Southern Maine Vocational Technical Institute, South Portland, Maine, 1978

PROFESSIONAL REGISTRATIONS AND AFFILIATIONS

American Fisheries Society, National, Northeast and Atlantic International Chapters

Coastal and Estuarine Research Federation

Freshwater Mollusk Conservation Society

SPECIALIZED TRAINING AND CERTIFICATIONS

Freshwater Mollusk Conservation Society - Regional Fauna identification and Sampling Workshop. October 19-21, Kirkwood, Missouri

PHABSIM Field Techniques - April 2004, instructed by Thomas Payne & Assoc., Arcata, California

FERC Fish Passage Workshop - November 2003, hosted by Alden Laboratories, Holden, Massachusetts

INDUSTRY TENURE

26 Years

HDR

www.hdrinc.com

Experience Overview

Mary McCann has over 26 years of aquatic science experience, including conducting macroinvertebrate population and habitat assessments at hydropower projects located in over 10 U.S. states. She has served as Project Manager and Senior Biologist responsible for addressing issues regarding macroinvertebrates in support of Federal Energy Regulatory Commission (FERC) licensing and relicensing efforts.

Project Experience

Great Works Hydroelectric Project, Benthic Macroinvertebrate Surveys, Maine, Fort James Corporation. Senior Aquatic Scientist for rare, threatened, and endangered species surveys including dragonflies and other benthic macroinvertebrates. Consulted with state and federal resource agencies, and prepared aquatic study plans prior to performing field studies. Macroinvertebrate data were evaluated for compliance with water quality standards using multiple macroinvertebrate indices. Developed the project effects analysis and evaluation of appropriate protection, mitigation, and enhancement measures.

York Haven Hydroelectric Project, Macroinvertebrate Survey, Pennsylvania, Olympus Power Company. Senior Aquatic Biologist responsible for developing a macroinvertebrate study plan, participating in a field survey, and assisting in the review of study reports. Macroinvertebrate samples were collected via kick net within multiple habitat types. Results were evaluated for compliance with water quality standards using multiple macroinvertebrate indices. Developed the project effects analysis and evaluation of appropriate protection, mitigation, and enhancement measures.

Hogansburg Hydroelectric Project, Macroinvertebrate Studies, New York, Brookfield Renewable Power. Senior Environmental Scientist overseeing and advising on aquatic macroinvertebrate communities in the impoundment and downstream of the dam and tailrace. Assisted with licensing strategy and development of macroinvertebrate study plan, and participated in the FERC study dispute resolution technical conference on behalf of client. Macroinvertebrate samples were evaluated for compliance with water quality standards.

Lower Connecticut River Hydroelectric Projects, Macroinvertebrate Studies, New Hampshire, Vermont, and Massachusetts, FERC. Lead Aquatic Scientist assisting FERC staff with macroinvertebrate and endangered species studies associated with relicensing five lower Connecticut River hydroelectric projects. Scope involves assisting FERC staff with National Environmental Policy Act Scoping Document preparation and study plan determinations through study dispute resolution phase. During the study plan development process, served as Lead Biologist addressing extensive studies for state-listed rare odonates to address potential project effects.

Squa Pan Hydroelectric Project, Macroinvertebrate and Electrofishing Study, Maine, Maine Public Service Company. Project Manager responsible for study to determine the effectiveness of operational changes and proposed habitat enhancement measures in Squa Pan Stream as part of a license compliance requirement. Macroinvertebrate sampling was conducted using bug baskets as per state protocols to determine compliance with state water quality standards.

Description of Expertise and Experience with the Relevant Species/Grouping of Species

Ms. McCann's experience with dragonflies and other macroinvertebrates includes supporting numerous projects involving consultation with resource agencies; preparation of study plans; participation in field studies; preparation of study reports with project effects analysis; and development of protection, mitigation, and protection measures.

Description of Expertise and Experience in Development and Implementation of Mitigation, Effects Monitoring, and Effectiveness Monitoring Plans

Ms. McCann's expertise includes working with federal and state resource agencies on the development and implementation of dragonfly and damselfly population studies and other macroinvertebrates. This includes study plan development and participation in aquatic resource assessments; project effects analysis; and development of protection, mitigation, and protection measures.

Description of Expertise and Experience in the Hydroelectric Sector

Ms. McCann has extensive hydroelectric sector experience, having prepared environmental sections of federal and state permit and license applications in support of numerous hydropower licensing and relicensing efforts. She has conducted baseline resource assessment studies, post-license monitoring studies, prepared environmental study reports, Biological Assessments, worked on several Environmental Assessments for National Environmental Policy Act documents, and has served as expert witness.