

**ONTARIO WATERPOWER  
ASSOCIATION – REQUEST FOR  
QUALIFICATIONS**

SUBJECT MATTER EXPERT  
FISH SAMPLING



July 9, 2014

## ONTARIO WATERPOWER ASSOCIATION – REQUEST FOR QUALIFICATIONS

### Fish Sampling Expertise

July 2014

<b>Marc Faiella</b> Tech. Dipl., CEPIT Fisheries Technician		
Individual Name	Contact Information	Member of Waterpower Association
Marc.Faiella <a href="mailto:Marc.Faiella@stantec.com">Marc.Faiella@stantec.com</a>	Stantec Consulting Ltd 70 Southgate Drive, Suite #1 Guelph ON N1G 4P5 Phone: (519) 836-6050 Fax: (519) 836-2493	✓
Description of Expertise & Experience		
<p><b>Fish Sampling Expertise (max 100 words)</b></p> <p>Marc has over 10 years of industry experience as a fisheries technician and aquatic crew leader. He is proficient in the collection of field data using standardized protocols for fish, macroinvertebrates, and sediment and water quality. His expertise includes conducting detailed fish population densities, diversities and distribution surveys, conducting freshwater Species at Risk surveys, fish spawning/redd surveys, and collecting fish tissues for mercury analysis. Marc is skilled in the use of fisheries sampling equipment (including electrofishers, gill nets, fyke nets, trap nets, seine nets) and has significant experience conducting field research in remote sites across Canada via helicopter, ATV, boating and/or hiking.</p>		
<p><b>Hydroelectric Sector Experience (max 100 words)</b></p> <p>Marc has implemented several post-construction biological monitoring programs for the Hydroelectrical Power Industry, including Algonquin Power (i.e., Year 10 post-impoundment study for the Long-Sault Generating Station on the Abitibi River) and Brookfield Renewable Energy Group (i.e., Years 10 and 18 post-impoundment study for the Shekak-Nagagami Generating Station on the Shekak-Nagagami River). He has been involved in the field implementation of fisheries resource inventory and baseline studies throughout the Mattagami River, Groundhog River, Lake Gibson and other smaller watercourses in the Huntsville area for Canadian Hydro and Ontario Power Generation.</p>		

\* denotes projects completed with other firms

Marc has over 10 years of experience as an environmental technician and an aquatic ecologist. He has worked for a variety of sectors, including waterpower, mining, pulp and paper, aggregates, renewable energy, oil and gas, land development, and wastewater. Marc's specific areas of expertise include aquatic Environmental Effects Monitoring (EEM), Environmental Impact Studies (EIS), and fisheries and aquatic habitat assessments.

Marc is a competent field crew leader. He has conducted fisheries inventories and aquatic Species at Risk surveys, trout spawning surveys, collected benthic macroinvertebrate samples, water and sediment samples, and fish tissue samples for mercury (using non-lethal and lethal techniques). He has liaised with regulators and government agencies to acquire permits and approvals for field programs, and has worked closely with First Nations on a number of politically and environmentally sensitive projects.

Marc's technical experience has focused on the assessment aquatic habitats. He is skilled in the proper use of backpack and boat electrofishers, gill nets, fyke nets, trap nets, and seine nets. Marc has gained practical experience assessing DFO authorization compliance during all phases of construction. In addition, Marc has on-site experience at remote sites across Canada, where access is gained via helicopter, ATV, boating and/or hiking.

## EDUCATION

Tech. Dipl., Sir Sanford Fleming College /  
Ecosystem Management, Lindsay, Ontario, 2005

Pleasure Craft Operator, Toronto, Ontario, 2005

Class 1 Electrofishing Certificate / Ministry of  
Natural Resources, Peterborough, Ontario, 2012

Ontario Fish Identification Workshop / Royal  
Ontario Museum, Toronto, Ontario, 2006

Freshwater Species at Risk Identification  
Workshop / Royal Ontario Museum, Toronto,  
Ontario, 2012

Ontario Freshwater Mussel Identification  
Workshop / Fisheries and Oceans Canada –  
Canada Centre for Inland Waters, Burlington,  
Ontario, 2011

MTO/DFO/OMNR Fisheries Specialist Protocol  
Training, Downsview, Ontario, 2006

St. John Ambulance / First Aid and CPR, Guelph,  
Ontario, 2013

## PROJECT EXPERIENCE

Brookfield Renewable Energy Group - Year 18  
(2013) Post-Impoundment Biological Monitoring  
Study for Shekak-Nagagami Generating Station,  
Hearst, Ontario (Aquatic Ecologist)

Brookfield Power - Year 10 (2005) Post-  
Impoundment Biological Monitoring Study for the  
Shekak-Nagagami Generating Station, Hearst,  
Ontario (Aquatic Ecologist)

Algonquin Power - Year 10 (2007) Post-  
Impoundment Biological Monitoring Study for the  
Long-Sault Generating Station, Cochrane,  
Ontario (Aquatic Ecologist)

Canadian Hydro - Yellow Falls Hydroelectric  
Project, Environmental Baseline Study, Smooth  
Rock Falls, Ontario (Aquatic Ecologist)

Ontario Power Generation - Lake Gibson  
Contaminant Monitoring Study, Thorold, Ontario  
(Aquatic Ecologist)

Hydro One Networks Inc. - Series Capacitor  
Station, Huntsville, Ontario (Fisheries Crew Lead)