Mactaquac Aquatic Ecosystem Study - Fish Passage Expert Workshop

November 3 – 4, 2014

Crowne Plaza Fredericton – Lord Beaverbrook Garrison Room

Photo: Hatch Consulting

Énergie NB Power

NSERC CRSNG

Canadian Rivers Institute

UNB UNIVERSITY OF NEW BRUNSWICK

Time	Monday, November 3, 2014
8.30 - 8.40	Welcome and round-table *Tommi Linnansaari; Canadian Rivers Institute*
8.40 - 9.20	Introduction to NB Power Mactaquac Project *George Porter; Mactaquac Project Manager, NB Power*
9.20 - 9.45	Introduction to Mactaquac Aquatic Ecosystem Study (MAES) and Saint John River *Allen Curry; MAES Principal Investigator, Canadian Rivers Institute*
9.45 - 10.15	Introduction to fishes and hydropower operations of Saint John River *Tommi Linnansaari; Canadian Rivers Institute*
10.15 - 10.20	Break and transfer to bus
10.20 - 12.00	Site visit to the Mactaquac Generating Station • Narrated bus tour along lower Saint John River; *Allen Curry; Canadian Rivers Institute* • Mactaquac Generation Station: tour of the dam, associated issues, current fish collection facilities and future options; *Philip Gilks; NB Power & Ross Jones; Fisheries and Oceans Canada*
12.00 - 12.45	Lunch
12.45-13.30	Expert Presentation 1 : **Fishway science relevant to fish assemblages-** *Steven Cooke; Carleton University (Canada)*
13.30-14.15	Expert Presentation 2 : **Fish passage: challenges, failures, and potential solutions -** *Paul Kemp; University of Southampton (U.K.)*
14.15-15.00	Expert Presentation 3 : **Approach of fish migration and fish passages in Neotropical regulated rivers: the case of Upper Paraná River, Brazil -** *Sergio Makrakis; Western Parana University (Brazil)*
15.00-15.30	Coffee break
15.30-16.15	Expert Presentation 4 : **Nature-like fishways around the world: What we are learning -** *Laura Wildman; Princeton Hydro (USA)*
16.15-17.00	Expert Presentation 5 :**Turbine technologies and turbine survival -** *Greg Allen; Alden Research Laboratory (USA)*
17.00 - 17.15	Wrap-up: Day 1 *Questions, comments and answers from Day 1*

Time	Tuesday, November 4, 2014
8.25-8.30	Re-cap of Day 1 *Tommi Linnansaari; Canadian Rivers Institute*
8.30-9.15	Expert Presentation 6 : **Introduction to Upstream Fish Passage Systems -** *Ed Meyer; National Marine Fisheries Service - West Coast Region (USA)*
9.15-10.00	Expert Presentation 7 : **Discussion of Downstream Passage Systems at Columbia River Dams -** *John Williams; School of Aquatic & Fishery Sciences, University of Washington (USA)*
10.00-10.15	Coffee break
10.15-11.00	Expert Presentation 8 : **MAES – Fish passage considerations at Mactaquac Dam and the Saint John River -** *Chris Katopodis; Katopodis Ecohydraulics Ltd. (Canada)*
11.00-11.45	Expert Presentation 9 : **Removal or Rebuild? Considerations for the Mactaquac Aquatic Ecosystem Study from a river continuity perspective -** *Alex Haro; US Geological Survey - Conte Anadromous Fish Research Center (USA)*
11.45-12.30	Lunch
12.30 - 14.30	**Brainstorming Discussion**: Cutting edge of upstream passage for a potential new Mactaquac Generating Station; conceptual model *Moderator and all workshop participants* • *Species-specific solutions* • *Promising technologies, techniques, facilities, methods* • *Lessons learned and important considerations for future*
14.30-15.00	Coffee break
15.00 - 17.00	**Brainstorming Discussion**: Cutting edge of downstream passage for a potential new Mactaquac Generating Station; conceptual model *Moderator and all workshop participants* • *Species-specific solutions* • *Promising technologies, techniques, facilities, methods* • *Lessons learned and important considerations for future*
17.00 - 17.15	Wrap-up: Day 2 *Questions, comments and answers from Day 2*