

# **Brian Hindley M.Sc.**

## **EXPERIENCE AND ACCOMPLISHMENTS**

Brian Hindley has a Masters degree in Fisheries Biology and over 20 years of experience in aquatic ecology, water resources management, environmental planning, impact assessment and watershed management. His extensive experience includes senior watershed and water resources policy/planning positions with Ontario Hydro, the Ministry of Natural Resources, the Toronto and Region Conservation Authority and Beak International Inc. He has a strong background in fisheries/aquatic ecology, watershed/environmental planning, interdisciplinary project coordination skills and (water) resources management experience and provides client services in the following areas:

- watershed planning,
- policy development,
- stakeholder facilitation/mediation and issues management,
- natural area and aquatic habitat rehabilitation,
- environmental assessment,
- development capability mapping,
- environmental permitting,
- expert witness experience,
- receiving water assessment, and
- fish community assessment.

## **WORK CHRONOLOGY**

- 2002 – present. Aquafor Beech Limited. Watershed Studies Specialist/Fisheries Biologist
- 1993-2002. Beak International Incorporated. Principal/Watershed Studies Specialist
- 1990-1993. Ontario Hydro. Environmental Studies Specialist, Hydroelectric Business Unit
- 1988-1990. Ontario Ministry of Natural Resources. Watershed Policy Specialist. Water Policy Branch.
- 1981-1989. Toronto and Region Conservation Authority. Watershed Specialist. Water Resources Division
- 1976-1981. Aquatic Biologist, Beak International Inc; Aquatic Biologist, Grand River Conservation Authority; Fisheries Biologist, Lake Simcoe Fisheries Assessment Unit

## **EDUCATION AND PROFESSIONAL MEMBERSHIPS**

- York University, North York, Ontario, MSc. - Biology (part-time) Thesis: Survival of lake trout and lake whitefish eggs in Lake Simcoe. 1984. 78p. 1979 to 1984.
- University of Guelph, Guelph, Ontario, Hon. B.Sc. - Fisheries and Wildlife

Biology. 1972 to 1976.

- Past President of the Southern Ontario Chapter of the American Fisheries Society

## **PROJECT EXPERIENCE**

During his career, Brian has managed and participated in a range of projects in both the private and public sector. Some examples by sector are listed below.

### **Watershed Studies**

Watershed studies examine the cumulative effects of urban growth and other non point source land use practices on valued environmental features including aquatic/terrestrial habitats, fish communities, sensitive landforms, stream networks, rare/threatened/ endangered species, ground and surface water supplies and recreational opportunities. These studies require integrated understanding and assessment of the underlying processes which link these components of the ecosystem together: aquatic ecology, terrestrial ecology, hydrology, fluvial geomorphology, hydrogeology and water quality. Watershed plans provide an action plan which prescribes a variety of protective, restorative and enhancement measures to avoid, initiate or minimize cumulative effects and establish a healthy environment for plants and animals through economically viable development. Example studies which Brian has co-managed include:

- City of Toronto Wet Weather Flow Management Master Plan – Highland and Rouge Watersheds
- Lower Rideau River Watershed Management Strategy
- Carp Watershed Study, City of Ottawa
- Brookhill Subwatershed Study, Clarington
- Subwatershed 19 Study in the Credit headwaters. CVC
- Rouge River Watershed Management Strategy. TRCA
- Dingman Creek Subwatershed Study. City of London
- West Humber Subwatershed Study. City of Brampton
- Eramosa-Blue Springs Watershed Study. GRCA
- Kettle-Dodd Creek Subwatershed Study. City of London.
- Duffins Watershed and Seaton Lands Study. Ministry of Housing/TRCA
- Thames Valley areas Subwatershed Study. City of London.

### **Peer Reviews/Expert Witness**

- Expert witness testimony at OMB Hearing on behalf of City of Toronto to address fisheries issues associated with a proposal to bury a tributary of Highland Creek
- Expert witness testimony at consolidated hearing to address fisheries and environmental planning issues associated with an industrial discharge to the St. Clair River. ICI Canada

- Peer review of a Class EA for a sewage treatment facility expansion in Alliston. T.R.U.C.E.
- Peer review of fisheries/hydrologic investigations to assess the effects of a release flow in the Jordon River to accommodate sports fishing interests. Nova Scotia Power.
- Review of the Interim Waste Authorities environmental studies and site selection process leading to the selection of the M6 site in Markham. Town of Markham.

## **Government**

- Preparation of a report: Watershed-Based Fisheries Management Guidelines, a technical background report for use in updating MNR District Fisheries Management Plans
- Preparation of a fisheries mitigation and compensation measures manual providing guidance on provincial highway construction projects. MTO.
- Assessment of the current and cumulative effects of ponds, water taking and diversions on the water resources of the Niagara Escarpment Plan area. CVC and NEC
- Preparation of two EARP screening reports for restoration projects in Hamilton Harbour/Cootes Paradise. Hamilton Harbour RAP.
- Review of Lake Ontario coastal shoreline treatment measures, their effects on fish communities and opportunities to provide habitat mitigation and enhancement. Waterfront Regeneration Trust.
- Class Environmental Assessment for the Brimley Road stormwater management facility - application of the Dunkers flow balancing system to treat stormwater. This EA involved developing a fish habitat compensation package for Fisheries Act authorization and creation of a wetland. City of Scarborough.
- Development of aquatic/terrestrial criteria and preparation of a sensitivity map for the lands within the Rouge Park North Park Master Plan. Town of Markham.
- Prepared amended conservation authorities' class environmental assessment to serve pending preparation of new class EA. ACAO.
- MNR draft discussion paper on ecosystem planning on a watershed basis.
- Prepared a draft discussion paper for a Provincial Water Conservation Strategy. MNR 1990
- Humber Watershed Rural Water Quality Study. Toronto Area Watershed Management Strategy. MOE
- MTRCA Rural Beaches Study. MOE
- MTRCA Waterfront Lakefill Park Environmental Monitoring Program. MTRCA.
- Developed and implemented environmental monitoring programs and a handbook of good design and construction practices for conservation authority undertakings. MTRCA.
- Designed and developed an urban fishing program for Metropolitan Toronto.

MTRCA.

### **Habitat Assessment/Restoration**

- Bowmanville Creek Restoration Plan, CLOCA
- Completion/Implementation of Fish Habitat Compensation Plans for several water control structure removal plans at the Stanleigh Mine, Elliot Lake. Rio Algom
- Completion of a Habitat Restoration Plan and Habitat Compensation Plan for Upper Fletchers Creek. NW Sandalwood Landowners Group, Brampton
- Completion of several fisheries impact assessments and design input for stream erosion control projects on Tuck Creek, Redhill Creek, Rouge River, Snake Creek, Fletcher's Creek, Wilket Creek. Various municipalities/CAs.
- Development of aquatic habitat restoration plans for TooGood Pond. Town of Markham.
- Participation in a coastal wetland rehabilitation plan for Rondeau Bay. Rondeau Bay Watershed Steering Committee.
- Participation in the preparation of a restoration plan for Terraview Park/Taylor Creek. City of Scarborough.
- Comprehensive aquatic resources studies in support of the City of London Subwatershed studies

### **Power Generation**

- Ontario Environmental Assessment and EARP Screening Reports for 7 small hydroelectric redevelopment projects. Ontario Hydro
- Fish Habitat and Hydro Power Working Group (MNR, DFO, OH).
- Baseline and environmental effects studies to identify siting constraints for a number of hydroelectric, thermal and nuclear generating stations in Ontario, Saskatchewan and Newfoundland. various clients
- Fisheries investigations to assess alternative sites for a thermal generating station in Lake Diefenbaker. Saskatchewan Power Corporation.
- Baseline fisheries study of the Chamouchuane River hydroelectric project. Hydro Quebec.
- Fisheries impact assessment and Atlantic Salmon population studies for the Upper Salmon Hydroelectric project. Newfoundland and Labrador Hydro.
- Baseline fisheries studies for the Lower Churchill-Gull Island hydroelectric project. Lower Churchill Development Corporation, Labrador.
- Fisheries habitat assessment and evaluations of heated water discharge effects on Lake Whitefish in the Abitibi-River. Northland Power.
- Evaluation of Atlantic Salmon passage facilities on the Exploits River, Newfoundland. Abitibi Price

### **Mining**

- Receiving water and aquatic habitat assessment, North Porcupine River tributaries. Kinross Gold Corp.
- Fisheries and benthic invertebrate community investigations of tailings pond impacts in the Lightning River watershed. Hemlo Gold.
- Atlantic Salmon population studies to evaluate the effect of base metal mining activities in the Northwest Miramichi watershed. Heath Steele Mines.
- Development of an Environmental Manual for complying with Fisheries Act Authorization for Mine Closure activities at the Stanleigh Mine, Elliot Lake. Rio Algom
- Completion/Implementation of Fish Habitat Compensation Plans for several water control structure removal plans at the Stanleigh Mine, Elliot Lake. Rio Algom
- Completion of comprehensive environmental baseline studies of two arctic lakes containing Kimberlite deposits, NWT. BHP Diamonds
- Completion of an environmental assessment of impacts from the Winston Lake mine on the Whitesand River watershed, Schreiber, Ontario. INMET Mining Inc.