

Mr. Jason Côté is a project manager and senior fisheries biologist with over 14 years' experience in municipal infrastructure, transportation, and energy business sectors. Jason specializes in environmental impact and risk assessments, design and implementation of complex aquatic baseline and scientific research programs, and development of long-term effects and follow-up monitoring programs. Jason has extensive experience in the Northwest Territories, providing environmental assessment and management services on various hydroelectric projects (e.g., Taltson Hydroelectric Expansion Project), design and implementation of long-term aquatic effects monitoring programs (including fish sampling and inventories of lake systems), and conducting aquatic research programs for various Aboriginal communities.

Jason has spent his career developing relationships with government agencies and First Nations and prides himself on maintaining solid relationships with all project stakeholders.

## EDUCATION

Diploma of Technology and Renewable Resources (Fish, Wildlife and Recreation), British Columbia Institute of Technology, Burnaby, British Columbia, 2001

Diploma of Technology and Renewable Resources (Advanced Renewable Resource Management), British Columbia Institute of Technology, Burnaby, British Columbia, 2002

Bachelor of Science, Environmental Science, Royal Roads University, Victoria, British Columbia, 2004

## REGISTRATIONS

Registered Professional Biologist, Association of Professional Biologists of British Columbia

## PROJECT EXPERIENCE

### Manufacturing & Processing Facilities

#### Kitimat Works Modernization Project\*

*Proposed \$1.7 Billion re-construction of the existing aluminium smelter in Kitimat, B.C. which incorporates new potroom technology. Conducted an assessment of the potential impacts the Project may have on the environment and summarized findings in a comprehensive report. This report provided decision-makers with an overview of the potential environmental impacts of the Project and provided both government agencies, First Nations and interested stakeholders with a general understanding of the Project.*

### Power

#### Dasque Cluster Hydroelectric Project

*Lead Field Biologist in the development and implementation of in-stream flow requirement validation, ramping effects assessments, and monitoring for wet commissioning. Participated in the development of the Operational Environmental Monitoring Plan and completed Year 1 and Year 2 of the Fish Abundance monitoring program.*

#### Emergency Preparedness Planning\*

*Identified potential impacts associated with flow reductions from Rio Tinto Alcan's Kemano Hydroelectric generating facility. This included the identification of high risk areas of stranding, mitigation strategies and moderate to large scale salvage efforts.*

#### Taltson Hydroelectric Expansion Project\*

*Worked on an interdisciplinary team of engineers, biologists and social scientists to measure the effects of flow reductions associated with the development of a 56 MW power generating facility in the Northwest Territories. This included development of mitigation measures and assessment tools to conduct an Environmental Impact Assessment; participant in key Technical Sessions and Public Hearings; and lead discussions with Fisheries and Oceans Canada regarding potential aquatic effects and development of an acceptable in-stream flow release.*

\* denotes projects completed with other firms

#### Naillii Run of River Project\*

*Environmental Manager of a 1.2 MW run-of-river hydroelectric development near Wha Ti, NWT. Key project activities include: preparation of an issues scoping document to guide field assessments; implementation of fish and wildlife baseline data collection programs; completion of a detailed-level aquatic effects assessment; assisted in organization of an Aboriginal Hydro Committee to participate in development of the project; and lead discussions with regulatory agencies on acceptability of the project.*

#### La Martre River Hydroelectric Project\*

*Environmental Manager for the feasibility and aquatic effects assessment for a 13.2 MW run-of-river hydroelectric development proposed to service the community of Wha Ti and provide regional power to Yellowknife, NWT. Key project activities included: conducting a feasibility investigation on the required baseline ecosystem flow; collection of fish and fish habitat baseline data; communicating with engineering in the development of a hydrologic model, conducting an aquatic effects assessment and leading the liaison process of the results with Fisheries and Oceans Canada; and participated in Aboriginal community meetings describing the potential impacts.*

#### Overwintering Habitat Assessment\*

*Lead Fisheries Biologist in the design and implementation of an overwintering fish and fish habitat assessment within the Snowdrift River. The scientific research program required a detailed literature review of fish species preferred overwintering habitat characteristics, collection of fish habitat structure and cover conditions (depth, velocity, substrate, cover), modelling overwintering habitat potential and determination of overwintering impacts based on thresholds identified during the literature review.*

#### La Martre River Frazil Ice Risk Assessment\* (Lead Biologist)

*Lead biologist in the development and implementation of a frazil ice monitoring program and preliminary risk assessment. The field program focused on identifying frazil ice generation sites and distribution within the upper reaches of the La Martre River. The desktop assessment focused on identifying potential risks to project infrastructure and flow restrictions into the hydroelectric generating station. A series of mitigation measures were developed and considered in the overall project feasibility assessment.*

#### La Martre River Preliminary Ramping Effects Assessment\*

*Lead Environmental Manager in the design and completion of a ramping effects assessment of the proposed La Martre River Hydroelectric Project. The ramping effects assessment required the collection of fish and fish habitat data along a 30 km section of the La Martre River, development of a hydrologic model to understand changes in water elevation and flow, and analysis using the DFO Risk Assessment Matrix to evaluate potential risks of ramping to fish populations. Detailed recommendations and mitigation measures were identified to minimize potential ramping concerns.*

#### Taltson Twin Gorges Water License Renewal\*

*Lead Environmental Manager for the renewal of the Taltson Twin Gorges Generating Station Water Licence. Key Project activities included: leading Technical Sessions and Public Hearings in Aboriginal communities within the Northwest Territories; administering the project through the Mackenzie Valley Land and Water Board; developing a long-term Aquatic Effects Monitoring Program, Sediment and Erosion Management Plan, and Public Engagement Plan; and provide expert advice and supporting documentation regarding stakeholder claims for compensation.*

#### Taltson River Aquatic Effects Monitoring Program\*

*Lead Field Biologist in the design, logistical planning, implementation, analysis and reporting of various monitoring programs associated with the Taltson Twin Gorges Generating Station in the Northwest Territories. Monitoring programs initiated include: Fish Stranding Monitoring Program, Fish Entrapment Assessment; and Mercury in Sediment and Fish Flesh Monitoring Program. Based on the initial findings of the monitoring programs, strategic advice has been provided to NTPC to manage stakeholder concerns and regulatory requirements.*

#### Lutsel K'e Mini Hydroelectric Project\*

*A 1000 KW run-of-river hydroelectric development on the Snowdrift River that is proposed to service the community of Lutsel K'e. Designed and implemented a fish species survey, fish and fish habitat effects assessment and frazil ice monitoring program. Also lead communications with regulatory agencies and aboriginal groups to determine the acceptability of the project and its associated environmental impacts.*

### **Freshwater and Marine**

#### **Terrestrial, Aquatic and Marine Near-Shore Baseline Data Collection**

*Lead Fisheries Biologist in the design and implementation of a marine near-shore fisheries assessment in support of potential development sites within the marine environment near the Rio Tinto Alcan Smelter Site in Kitimat, British Columbia. Survey and analysis focused on species composition, abundance, life-stage presence and use of habitat within potential development footprints.*

#### **Pacific Northwest LNG**

*Lead Fisheries Biologist in the logistics planning and implementation of marine fish and fish habitat surveys within the Skeena River Estuary. Survey objectives focus on habitat use by fish species that support commercial, recreational and Aboriginal fisheries, potential life-history dependencies on affected habitats, and verification of a least risk work window. Surveys completed include beach seine, crab/prawn trapping, hydroacoustic, trawl, fyke net, and habitat reconnaissance.*

#### **Stewart Harbour Fisheries\***

*Conducted analysis of finfish and shellfish data collected in the Bear River Estuary. Analysis identified key species (both finfish and shellfish) use, timing and life-stages supported by habitats within the Bear River Estuary.*

#### **Kitimat Fish Use Assessment\* (Lead Fisheries Biologist)**

*Lead Fisheries Biologist in the design, implementation, analysis and reporting of a 6-month marine foreshore inventory assessment program near Kitimat BC. Data analysis identified key species use, distribution, timing and life-stages supported by marine foreshore habitat adjacent to the Rio Tinto Alcan Kitimat Works Smelter.*

#### **West Coast Connector Gas Transmission Project (Crew Lead)**

*Crew lead in the collection of baseline fish and fish habitat information at proposed stream crossings along the western section of the proposed pipeline.*

#### **Nonacho Lake Trout Egg Incubation Study\***

*Extensive evaluation of lake trout spawning characteristics and preferred spawning depths within Nonacho Lake to quantify the potential effects with an annual water level drawdown. Participated with Department of Fisheries and Oceans Canada research biologists in the design and implementation of a scientific research program requiring egg net deployment and retrieval, egg density and depth statistical analysis and assessment of potential effects to lake trout populations.*

### **Construction Management**

#### **Bushman Creek Dredging Project**

*Dredging of a small watercourse in an effort to alleviate flood issues to nearby land owners. Designed and implemented environmental mitigation planning for the dredging of Bushman Creek. Environmental planning included development of site specific environmental management plans (i.e. sediment and erosion control), site restoration works of disturbed areas, watercourse diversion methods for in-stream works and liaising with DFO and MOE.*

#### **Barge Landing Protocols**

*Developed a series of plans comprising a living document to mitigate environmental impacts associated with barge traffic. This included an Emergency Response Plan, Spill Response Plan, Human Safety Plan, Heritage Resource Protection Plan, Human-Wildlife Interaction Plan, and a Sediment and Erosion Control Plan.*

#### **I1K Transmission Line\***

*Developed a series of plans comprising a living document to mitigate environmental impacts associated with barge traffic. This included an Emergency Response Plan, Spill Response Plan, Human Safety Plan, Heritage Resource Protection Plan, Human-Wildlife Interaction Plan, and a Sediment and Erosion Control Plan.*

#### **Rio Tinto Alcan Tower 375 Replacement (Project Manager)**

*Project managed (on-going) the replacement of Rio Tinto Tower 375. Key project activities included: obtaining appropriate permits to facilitate geo-technical investigations, development of a Construction Environmental Management Plan; conducting nest bird and raptor surveys throughout the construction period; and environmental monitoring and reporting.*

\* denotes projects completed with other firms

# Jason Côté B.S.C., R.P.Bio.

Aquatic Biologist

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## PUBLICATIONS

Cote, J. *Kitimat Estuary Fish Use Assessment: April - September 2007*, 2009.

Cote, J. *Taltson Hydroelectric Expansion Project: Trudel Creek Fish and Fish Habitat Effects Assessment*, 2008.

Cote, J., and M. Shultz. *Nailii Mini Hydro Project Vegetation, Wildlife, and Wildlife Habitat Assessment*, 2009.

Cote, J. *Lutsel K'e Mini Hydroelectric Project Overwintering Fish Habitat Assessment Report*, 2010.

Cote, J. *La Martre River Riparian Flow Requirement Feasibility Study*, 2010.

Cote, J. *La Martre River Hydroelectric Project Preliminary Ramping Effects Scoping*, 2011.

Cote, J., and J. MacLeod. *La Martre River Hydroelectric Project Frazil Ice Monitoring Program*, 2011.

Cote, J. *Lutsel K'e Mini Hydroelectric Project Frazil Ice Monitoring Program and Preliminary Risk Assessment.*, 2011.

Cote, J. *Taltson Twin Gorges Generating Station Aquatic Effects Monitoring Plan Terms of Reference*, 2012.

Cote, J., J. Hopper, and N. Veikle. *Potential Development Site Terrestrial, Aquatic and Marine Near-Shore Baseline Data Collection*, 2013.

Ganshorn, K., J. Cote and M. Hocking. *Taltson Twin Gorges Generating Station and Facilities AEMP: Mercury in Sediment and Fish Flesh Monitoring*, 2014.

**From:** [Shannon Allerston](#)  
**To:** [Permits](#)  
**Subject:** FW: NTPC v. Carter - Compensation Rehearing (Expert C.V.s); Board File MV2011L4-0002  
**Date:** Friday, May 5, 2017 1:16:48 PM  
**Attachments:** [R\\_Manek CV - May 2017\\_01801699x7AC1F.pdf](#)  
[J\\_Cote CV - May 2017\\_01801694x7AC1F.pdf](#)

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Registry Please, for Compensation Re-Hearing MV2011L4-0002  
Expert Witness CVs for NTPC

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**From:** Sean Parker [mailto:sparker@mross.com]  
**Sent:** May-05-17 12:18 PM  
**To:** Amanda Gauthier; Shannon Allerston  
**Cc:** Eleanor Olszewski; Doug Evanchuk; Jessica Buhler; Sheldon Toner; Caroline Wawzonek; Matthew Miller  
**Subject:** NTPC v. Carter - Compensation Rehearing (Expert C.V.s); Board File MV2011L4-0002

Please find attached the CVs of NTPC's experts for the compensation rehearing, Raj Manek and Jason Cote.

Regards,



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