

## **Kerra Hoyseth**

### **Education:**

I have a Bachelor of Science degree in Biology, graduating from the Co-operative Education Program at Simon Fraser University.

### **Professional Experience:**

#### **Department of Fisheries and Oceans, Campbell River, BC**

##### **Senior Aquaculture Biologist (BI-03)**

November 2010 – Present

- Contributed to the development of new BC Aquaculture Regulatory Program, including elements such as Marine Finfish Conditions of Licence, policies and operational tools
- Leading the Marine Finfish team in the Aquaculture Environmental Operations component of the program, which includes contributing to licensing decisions, siting criteria, field monitoring, data management, contributing to public reporting, and staff management

#### **Department of Fisheries and Oceans, Campbell River, BC**

##### **Senior Habitat Biologist, Aquaculture (BI-03)**

December 2006 – November 2010

- Lead biologist for assessment of primarily marine aquaculture (shellfish and finfish) development proposals for potential impacts to fish and fish habitat through site visits and referral review
- Recommended means of preventing and mitigating fish habitat impacts associated with such development through Letters of Advice
- Wrote Section 35(2) Authorizations and Authorization Amendments where mitigation can not avoid a Harmful Alteration, Disruption, or Destruction (HADD) of fish habitat
- Worked with industry to develop compensation, fish habitat restoration, and monitoring plans
- Generated and reviewed environmental assessments required by the *Canadian Environmental Assessment Act* (CEAA) as Lead Responsible Authority, as well as offering expert advice to other agencies as a Federal Authority
- Entered and tracked data in the PATH system
- Created file management system to provide consistency and organization in our paper files for continuity between different assessors
- Worked with industry to develop research projects that add to our collective understanding of aquaculture environmental impacts eg. Near and far-field impacts, new technology such as mechanical clam harvesting, etc.
- Collected habitat impact evidence during investigations/occurrences under the *Fisheries Act*

- Generated monitoring checklist and perform inspections for compliance of finfish and shellfish farms throughout coastal BC
- Partnered with BC Ministry of Environment on an annual field monitoring program which audits industry generated benthic monitoring data, to ensure compliance with the BC FAWCR and Section 35 of the Fisheries Act
- Provided advice to other sectors within DFO (Oceans, Fisheries and Aquaculture Management (FAM), Conservation and Protection (C&P)), eg. Advising FAM on appropriate fishing locations for scallop trawl experimental fishery, advising FAM on relevant regulatory science projects, etc.
- Participated on an AIMAP committee led by FAM to provide Habitat advice on dispensing regional innovation funding to relevant projects
- Worked/consulted with various stakeholder groups, NGOs, First Nations and other Government Agencies (Transport Canada, Environment Canada, Ministry of Agriculture and Lands, Integrated Land Management Bureau) eg. Consultation for finfish farm placement, harmonizing industry requirements for different branches of the government
- Represented Habitat Management on various teams, working groups and initiatives eg. Broughton Clam Beach working group to address concerns raised by First Nations, Provincial finfish farm waste regulation development, assisting in the development of hard bottom monitoring protocol under finfish farm sites
- Participated on West Coast VI Geographical Area Management group (GMA)
- Budget management
- Read and reviewed scientific literature to keep current in relevant research matters
- Provided briefing notes to senior managers when required
- Direct supervision of 2 staff

**Department of Fisheries and Oceans, Prince Rupert, BC**  
**Stock Assessment Biologist (BI-02)**

July 2000 – October 2006

- Surveyed for juvenile Coho throughout the North Coast of BC which included stream assessments and mapping
- Organized tissue sample collection from North Coast streams and rivers to generate statistically relevant DNA “reference library” with PBS Genetics lab
- Liaison with PBS Genetics lab to coordinate tissue sample collection from test and commercial fisheries, where unknown samples would then be compared to known “library” for stock identification; maintained genetic data results for North Coast
- Liaison with PBS Aging lab to correctly label and collect scale samples from test and commercial fisheries for the purpose of analyzing age data from North Coast salmon stocks; maintained age data results for North Coast
- Fish identification and counting at Babine Fence; part of the Nass River system
- Aerial and ground surveys/counts of salmon to coastal streams – which included stream walks through remote area
- Co-creation of Coho exploitation model to predict impacts to sensitive Coho populations

- Database work, data organization, data presentation and graphing
- Support to BI-03's and BI-04 in Stock Assessment when required

**Ministry of Environment, Williams Lake, BC**

**Junior Wildlife Biologist**

1997-1998

- Participated in many aerial (fixed-wing and helicopter) surveys of various wildlife species; caribou, bighorn sheep, mountain goats, moose, and wolves
- Collected radio-telemetry information from a discrete population of woodland caribou and analysed positional data
- Wrote 3 reports per year outlining resource use by woodland caribou, juvenile survival/recruitment, predator interactions, etc.
- Established and monitored snow stations in caribou habitat with ATVs and snowmobiles
- Aided on additional projects on-going in the office eg. installing radio-telemetry equipment on Fraser River sturgeon, locating heron rookeries, white pelican population counts, etc.

**Department of Fisheries and Oceans, PBS, Nanaimo, BC**

**Aquaculture Biologist**

1997

- Grew phytoplankton and zooplankton for cultured halibut and sablefish
- Studied early development of larval fish through controlled scientific experimentation
- Participated in aquaculture practices in research setting at the Pacific Biological Station eg. Collection of eggs from bloodstock

**Ministry of Environment, Fort St. John, BC**

**Junior Wildlife Biologist**

1996

- Performed compulsory inspections to legalize hunting kills on all required species (bighorn sheep, bison, cougar, bears, elk, moose, etc.)
- Aged ungulate teeth, and contributed age data to a regional database
- Participated on aerial surveys for moose, mountain goats, sheep, etc.