

Michael E. Hagen

Environmental Effects Officer

Natural Resources Sector Unit | L'Unité naturelles de Secteur de Ressources
Sector Support Section | Secteur de la Section de l'appui
Environmental Protection Operations | Activités de protection de l'environnement
Environment Canada | Environnement Canada



Employment History

1992 – Current	<p>Program Scientist, Natural Resources Sectors Unit, Sector Support Section, Environmental Protection Operations, Environment Canada. Provide advice and coordinate programs regarding industrial discharge effects on water quality and biological systems. Promote regulatory environmental monitoring requirement compliance by industry. Highlights include:</p> <ul style="list-style-type: none">• Regional EEM Coordinator for BC metal mines since 2002.• Regional EEM Coordinator for BC pulp and paper mills 1996 – 2002.• Coordinated the Annual Dioxin and Furan Trend Monitoring Program 1992 – 2004• Provide water quality advise to Environmental Assessment and Waste Prevention section regarding both new projects and contaminated sites• Conduct occasional field studies, most recently the Britannia Beach Contaminated Sediment Investigation
2008 – 2009	<p>Acting Head, Natural Resources Sectors Unit, Sector Support Section, Environmental Protection Operations, Environment Canada. Managed financial (budgets and work planning) and human resources (including staffing actions) for NRSU. Provided policy advice and direction to management and staff.</p>
1986 – 1992	<p>Environmental consultant specializing in waste management and assessment. Much work with the Fraser River Estuary Program's Waste Management Activity Plan.</p>
1981 - 1984	<p>Research Assistant, Lands Directorate, Environment Canada: Federal Lands Mapping Program, Mackenzie Gas Pipeline Environmental Assessment, and the BC Coastal Resources Folio project.</p>

Main Achievements:

2007 – 2010	<p>Participated in an intensive review of proposed Prosperity copper/gold mine with other members of EC Prosperity EIA team. The process included several days of Panel hearings and testimony. The effort earned the team the 2009 EC Environmental Assessment Team Award.</p>
2005 – 2006	<p>Participated in an intensive review of proposed Kemess North copper/gold mine with other members of EC Kemess North EIA team.</p>

	The process included several days of Panel hearings and testimony. The effort earned the team an EC Certificate of Recognition.
2003 – 2005	Coordinated government response to Pinchi Lake mercury contamination issue: communicated with and exchanged information between government agencies, First Nations, Teck Cominco, and consultants. This cumulated in a First Nations hosted roundtable. With support from agencies, First Nations and Teck Cominco worked cooperatively to address each party's concerns.
2001 - 2004	Lead scientist for the Britannia Beach Near-shore Sediment Investigation, a project involving three federal departments, BC Environment, and three consultants over two phases; also coordinated with an on-site component lead by the province. A workshop was held, a Regional Program Report published, and a poster presented at four conferences.
2001	Developed Environmental Protection Mining Database, a one-stop intelligence source for EP professionals. Includes information on 140 closed mines, operating mines, and advanced projects.
1992 - 2004	Coordinated Dioxin and Furan Trend Monitoring Program, which involved three federal departments, seven pulp and paper mills, and their consultants. Results received considerable media attention when closed areas were increased. This relatively unique long-term dioxin monitoring program was presented at the Dioxin '95 conference and a paper published in <i>Chemosphere</i> .
1992 – 1996	Pulp and Paper EEM Cycle 1: Implementation of this first environmental effects monitoring cycle earned its national team an Environment Canada Citation of Excellence.

Professional Development:

1996 – 2010	Annual attendance at Aquatic Toxicity Workshop. This EEM practitioner's forum provides exposure to current practices and new science from other regions and the opportunity to network
1999 - 2010	Annual attendance at Metal Leaching/Acid Rock Drainage Workshop, SFU. Exposure to current and new ML/ARD knowledge and network with professionals and regulators.
2007	BC Mine Reclamation Symposium, Squamish, BC. Issues regarding mine reclamation in BC. Presented Britannia sediment poster.
2005	Working Effectively with Aboriginal People one-day workshop
2004	SETAC 4 th World Congress, Portland, OR. Presentations from and networking with environmental toxicologists and chemists from around the world.
2003	Introduction to Ecological Risk Assessment as a Management Tool for Managing Risks at Contaminated Sites. Two-day Health Canada course at Ottawa
2003	Analyzing and Interpreting Contaminated Harbour and River Sediment. Three-day University of Wisconsin-Madison course at Victoria, BC

2000	Metal Leaching and Acid Rock Drainage. One-week Northwest Community College course at Smithers, BC
2000	Negotiation and Conflict Resolution workshop
1999	Coaching and Team Building workshop
1998	Learning for Tomorrow workshop
1996	5th International Association of Water Quality (IAWQ) Symposium on Forest Industry Wastewaters at Vancouver
1995	Dioxin '95 international conference at Edmonton
1993	Mineral Economics Symposium at Vancouver
1992	Economics of Natural Resources. Audited one term SFU REM course
1992	Excellence in Thinking and Writing. Two-day course at Vancouver

Education History:

1985 – 1986	Master of Natural Resources Management, Simon Fraser University. Main interest: Environmental economics.
1977 – 1980	Bachelor of Arts, Simon Fraser University. Honors Geography.

Publications:

- Hagen, ME. 1992. *Sediment Quality of Streams Surrounding Operating or Proposed Mines in British Columbia: Summary Report*. Regional Data Report DR 92-12. Environmental Protection, Environment Canada.
- Hagen, M., R. McCandless, B. More, and A. Colodey. 2004. *Nearshore Contaminated Sediment Investigations at Britannia Beach, British Columbia*. Regional Program Report 03-06. Environmental Protection Branch, Environment Canada, Vancouver.
- Godin, B. and M. Hagen. 1992. *Baseline Monitoring Catear Project - July 31, 1989*. Unpublished Regional Data Report. Environmental Protection, Environment Canada.
- Godin, B. and M. Hagen. 1992. *Baseline Monitoring Dome Mountain Project - July 21, 1987*. Unpublished Regional Data Report. Environmental Protection, Environment Canada.
- Godin, B. and M. Hagen. 1992. *Baseline Monitoring Dome Mountain Project - June 27, 1988*. Unpublished Regional Data Report. Environmental Protection, Environment Canada.
- Godin, B. and M. Hagen. 1992. *Baseline Monitoring Quesnel River Project - June 27, 1989*. Unpublished Regional Data Report. Environmental Protection, Environment Canada.
- Godin, B. and M. Hagen. 1992. *Baseline Monitoring Skyline Gold Mine - July 29, 1989*. Unpublished Regional Data Report. Environmental Protection, Environment Canada.
- Godin, B. and M. Hagen. 1992. *Baseline Monitoring Skyline Gold Mine - July 22, 1990*. Unpublished Regional Data Report. Environmental Protection, Environment Canada.
- Godin, B. and M. Hagen. 1992. *Baseline Monitoring Sulphurets Project - July 31, 1989*. Unpublished Regional Data Report. Environmental Protection, Environment Canada.

Godin, B. and M. Hagen. 1992. *Baseline Monitoring Windy Craggy Project - September 8, 1988 - March 21-22, 1990*. Unpublished Regional Data Report. Environmental Protection, Environment Canada.

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