

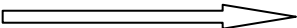
Objective: Environmental and human health advocate through risk assessment and risk management

Summary of Qualifications:

Succeeded in attaining a comprehensive understanding of human health and environmental guidelines/policies and legislation and the federal, provincial, municipal and International jurisdictions, an important knowledge base for a wide variety of risk assessment/management projects

Professional Experience

Analysis:

- Researched and then authored scientific literature in a wide variety disciplines published in reviewing journals including Advances in Nursing Research; Current Research; Canadian Pharmaceutical Journal; Proceeding of the 25th International Conference of Heavy Metals and the Environment; Journal of Toxicology and Environmental Health, Part A; Nova Scotia Department of Mines Reports; Atlantic Geology
- Screened provincial and federally regulated properties for compounds of potential concern to both human and ecological receptors identifying false positives by differentiating naturally occurring chemicals from anthropogenic pollutants reducing clients potential liability
- Evaluated toxicity of Great Lake Contaminated Sediments applying the Canada-Ontario Decision-Making Framework of Assessment and identified the risk affecting two site-relevant species
- Verified that the Canadian Contaminated Sites tool produced comparable results to the World Bank tool that prioritized remediation of 14 contaminated sites in Kazakhstan
- Ranked contaminants of concern in Ontario municipal sites assisting to identify COPCs (metals, pesticides, hydrocarbons PCBs, VOCs, phenols, BTEX/PAHs) using CCME, MOE, B.C. and USEPA guidelines
- Assessed human health risk based on intrusive soil and groundwater investigation measuring petroleum hydrocarbons, heavy metals, pesticides relied on by researchers to recommend remediation or site restrictions if required
- Leveraged, correlated, and applied knowledge of acts and policies to the field of risk assessment including: 

- Canadian Environmental Protection Act (CEPA) and regulations pertaining to this act
- Canadian Environmental Assessment Act
- Canadian Council Ministry of the Environment (CCME) Classification system for Contaminated Sites
- Canadian Soil Quality Guidelines for the Protection of Environment and Human Health, 1999
- Guidance Document PN1403, 2008
- Environment Canada's Toxic Substance Management Policy
- Treasury Board Government of Canada Guidelines on Real Property Management
- Canadian Environmental Protection Agency Review, 1995, 1996
- Auditor General's Report on Environment
- Healthy Environments and Consumers Safety
- Environment Canada's Toxic Substance Management Policy
- Auditor General's Report on Environment

Leadership:

- Formulated a protocol that systematically compiled literature reviews on medical, environmental, toxicological, risk assessment and management guidelines/protocols/background science relied on as a concentrated reference resource by researcher
- Mapped, modeled and estimated risk of hazard to Canada-wide population from naturally occurring contaminants hosted in black shale bedrock
- Provided a unique algorithm for estimating exposure, potential of occurrence and discrimination of naturally occurring arsenic in the Province of New Brunswick
- Generated plausible alternative scientific models relating to human health concerns published in a peer review journal, and then referenced in 22 other journals, 2 PhD theses, and 1 book
- Became the first geologist to certified in population health risk assessment and management through the University of Ottawa Population Health Institute

Planning and Organization:

- Coordinated multidisciplinary working groups of university, government (federal and provincial) and non-government agencies synthesizing information and developing clear and realistic recommendations while providing creative and innovative solution
- Organized a series of world-class speakers, initiated partnerships with other established institutes, and co-ordinated graduate studies as part of the creation of the Canadian Shield Research Institute
- Mastered multiple computer applications for tabulating, comparing, interpreting environmental and health-related data using data processing (MSWord, PowerPoint), database graphing (Excel, CorelDraw), statistical analyses (Systat, SPSS, Excel, Statview), Geographic Spatial Analyses (through ArcGIS, Autocad) and illustrations (CorelDraw, Adobe Illustrator) allowing for self sufficiency in report production
- Achieved Professional Geology status with the Association of Professional Geologists of Ontario resulting in signing and certifying authority

Communication:

- Collaborative people-focused worker interested in fostering strong, effective teamwork. Providing timely, creative and complete collaborations
- Studied affective tools for engaging the public about concerns to strategize effective, meaningful dialogue and feedback in public communication

Work Experience

Risk Assessment Specialist 2010-2011
SNC Lavalin Environment

Earth Scientist, Risk Assessment and Graduate Student 2008-2010
Geological Survey of Canada

Science Associate 2006-2008
Canadian Shield Institute, University of Ottawa

Earth Scientist, Research Scientist – Primarily at Geological Survey of Canada with short contracts with Pharmacology Association of Canada and Nursing Association of Canada 1993-2006

Education

Population Health Risk Assessment and Management 2010
Graduate Certificate University of Ottawa (PHRAM (Cert.)),
Ottawa

Master of Science Geochemistry 1989
Dalhousie University, Halifax

Bachelor of Science, Earth Science 1983
Carleton University, Ottawa

Professional Associations:

- Association of Professional Geoscientists of Ontario
- Canada Chapter, International Medical Association
- Society of Environmental Toxicology and Chemistry, Laurentian Division
- Elected Secretary to System Safety Society-Canada Chapter.

- Federal Contaminate Sites: Human Health Risk Assessment- Ottawa- Federal Contaminated Sites Workshop-
December 11, 2010
- Federal Contaminated Sites: workshop on Aquatic systems modelling- Montreal- Federal Contaminated Sites Workshop
May 10, 2010
- Geoenvironmental Modeling of Ore Deposits –Graduate Short Course- University of Ottawa-
February 13-20, 2010
- Contaminated Soil and Groundwater Chemistry Assessment and Remediation
June 1-23, 2010
- Short Course:SETAC Review of Ecological Risk Assessments – at Queen's University Biological Station (QUBS) Miranda Henning from ENVIRON
June 9 th , 2011

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