

Field	Response
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1. Contact Information   Phone	306 966-6653
2. Please indicate the alignment of your research expertise to one or more of the following GWF objectives/ deliverables:	Inform adaptation to change and risk management – propose governance mechanisms, management strategies, and policy tools to reduce the risk of water threats, design adaptive strategies, and enhance economic opportunities
3.1 Please indicate the alignment of your research expertise to the GWF Science Pillar 1 – Diagnosing and Predicting Change in Cold Regions:	Human–Water Systems – address the human dimensions that will determine water futures, including governance, policy, communities, border, and water resources management Water and Health – determine how changes to climate, extreme events, hydrology and water quality will affect human health in urban, rural and Indigenous communities
3.2 Please indicate the alignment of your research expertise to the GWF Science Pillar 2 – Developing Big Data and Decision Support Systems:	
3.3 Please indicate the alignment of your research expertise to the GWF Science Pillar 3 – Designing User Solutions:	Water Environment – ecosystem health and conservation, water management Urban and Rural Communities Indigenous Communities Government and Governance

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4. Please indicate the alignment of your research expertise to one or more of the following user needs:	<p>Complex system modeling and analyses reflect the growing awareness of interacting dynamics in human–natural coupled systems. These studies emphasize the inter–relationships between water resources and transportation systems, infrastructure, energy generation, mining, food production, and source water protection.</p> <p>Knowledge mobilization for decision support, including the facilitation of communities of practice, stakeholder engagement with science, visualization and Decision Theatres, development of place–based solutions for climate adaptation, and evidence–based decision making.</p> <p>Merging Indigenous traditional knowledge with science for more effective climate adaptation, risk management, water governance, and sustainable development.</p> <p>Studies of environmental change and long–term, generational impacts of economic development on First Nations ecosystems and water resources.</p>
5. Please list regions of Canada and the biomes (e.g. mountains, boreal forest, Great Lakes–St Lawrence), watersheds, and/or river basins where you are interested in conducting research for GWF:	<p>Saskatchewan, all regions (prairie, boreal forest, north) Treaty 4,5,6.</p> <p>British Columbia (coastal communities, northern, Okanagan Basin)</p> <p>Alberta, all region (prairie, north) Treaty 6, 7.</p>

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6. Please list any other expertise or recent experience (subjects, river basins, technology) not covered by above query that could help us in assessing your alignment with the GWF programme:	<p>1. Watershed and drinking water protection planning with Indigenous communities and other communities. Plan-making helps communities to think about, and prepare for, potential impacts to water quality/quantity through increased dialogue with stakeholders, regulators and scientists.</p> <p>2. Urban planning, specifically effectiveness of Low Impact Development (LID) techniques and methods as adaptation to extreme weather events. Evaluation of post-disaster adaptation response to severe flood events (eg. Katrina, New Orleans). New approaches to stormwater management, permeable urban surface treatments, design innovation in the face of climate uncertainty. Urban areas are redefining their relationship with water – are these approaches effective, being adopted, what are the barriers, opportunities. Over 50% of the global population is urban; over 80% of Canada is now urban. How prepared are we for water/climate-related impacts?</p>