



FACT SHEET

NWT CIMP PROJECTS (2024-25)

Introduction:

The Northwest Territories Cumulative Impact Monitoring Program (NWT CIMP) currently supports 30 monitoring and research projects that address key cumulative impact monitoring priorities of land and water use decision-makers. These decision-makers include co-management boards, federal, territorial, and Indigenous governments and Indigenous organizations.

Continuing into year two of three, NWT CIMP is collaborating with Polar Knowledge Canada (POLAR) for barren-ground caribou monitoring and research through the *Collaborative Barren-ground Caribou Initiative: understanding drivers of population trends*. This is in addition to our regular funding for projects focusing on caribou, water or fish. The seven projects receiving these funds are noted in **brown** font and with a “BG” designation at the end of their CIMP number.

Approximately \$2.24 million is allocated in 2024/25 to support the 30 projects. This amount includes \$650,000 from POLAR Knowledge Canada, allocated towards the seven Barren-ground caribou projects. From this total amount, roughly \$552,000 is distributed towards new projects.

Of the 30 funded projects,

- seven are Traditional Knowledge-focused;
- twenty-one are science-focused; and
- two combine Traditional Knowledge and science.

The following table provides a brief description and intended outcome of NWT CIMP projects for the 2024-25 fiscal year. Overall,

- eight projects are starting;
- fourteen projects are mid-term; and
- eight projects are in the final year.

Table 1. Purpose, status and intended outcomes of NWT CIMP funded projects.

Purpose	Current Status	Intended Outcome
North/South Slave Regions		
<p>1. Recovery of the mine-impacted landscape in the Yellowknife region (CIMP227)</p> <p>To determine what processes control the recovery of the landscape contaminated by stack emissions from the Giant Mine roaster, and how recovery will be affected by climate change and unusual or severe weather events.</p> <ul style="list-style-type: none"> • <i>Queen's University</i> <i>Heather Jamieson</i> jamieson@queensu.ca 	<p>Project Year – 3 of 3</p> <p>Main Topic – Water</p> <p>Type – Science</p> <p>Decision-makers who may use results: CIRNAC, GNWT</p>	<p>This project will increase our understanding of the long-term stability of arsenic on the landscape, and the recovery time needed from contamination associated with mining and ore processing. Project results will help to directly inform future versions of water and soil management plans.</p>
<p>2. Monitoring good water for First Nation water governance in Akaitcho (CIMP230)</p> <p>To pilot a multiple knowledge system approach to water quality monitoring and to establish a baseline.</p> <ul style="list-style-type: none"> • <i>Akaitcho Territory Government</i> <i>Diane Giroux</i> Aarom.coordinator@akaitcho.ca 	<p>Project Year – 3 of 3</p> <p>Main Topic – Water</p> <p>Type – Traditional Knowledge, Science</p> <p>Decision-makers who may use results: ATG, MVEIRB, MVLWB</p>	<p>Project results will inform future priorities, strategies, research and communications for the Akaitcho Territory and enhance local awareness of water quality.</p>
<p>3. Assessing the impact of aerator installation on the chemical and biological recovery of Frame Lake (CIMP237)</p> <p>To investigate the influence of aerator installation on the chemical and biological recovery of Frame Lake.</p> <ul style="list-style-type: none"> • <i>Aurora Research Institute</i> <i>Mike Palmer</i> mpalmer@auroracollege.nt.ca 	<p>Project Year – 2 of 3</p> <p>Main Topic – Water</p> <p>Type – Science</p> <p>Decision-makers who may use results: YKDFN, NSMA, GNWT, City of YK, MVLWB</p>	<p>This project is testing if aeration improves biological and chemical conditions as well as diversity at lower trophic levels. If successful, there are management implications for other regional lakes.</p>

Purpose	Current Status	Intended Outcome
<p>4. Boreal caribou habitat enhancement – lichen habitat restoration on disturbed sites (CIMP234)</p> <p>To expand boreal caribou habitat enhancement to areas impacted by industrial development within the Pine Point mining area.</p> <ul style="list-style-type: none"> • <i>LGL Limited for Deninu Kue First Nation</i> Marc d'Entremont mdentremont@lgl.com or lands@dkfn.ca 	<p>Project Year – 2 of 2</p> <p>Main Topic – Caribou</p> <p>Type – Science</p> <p>Decision-makers who may use results: DKFN, Tech Metals Ltd., Pine Point Mining Ltd., GNWT, MVEIRB</p>	<p>Developed protocols and recommendations will help guide future efforts to re-establish lichen communities and restore boreal caribou forage and habitat.</p>
<p>5. Using Traditional Knowledge and camera-trapping to understand the relationship between boreal caribou and the Deninu Kue First Nation in response to a changing environment (CIMP245)</p> <p>To understand how the relationship between the DKFN people and boreal caribou has changed over time due to changes to caribou habitat.</p> <ul style="list-style-type: none"> • <i>LGL Limited for Deninu Kue First Nation</i> Marc d'Entremont mdentremont@lgl.com or lands@dkfn.ca 	<p>Project Year – 1 of 3</p> <p>Main Topic – Caribou</p> <p>Type – Traditional Knowledge</p> <p>Decision-makers who may use results: DKFN, Tech Metals Ltd., Pine Point Mining Ltd., GNWT, MVEIRB</p>	<p>Project results will help support DKFN's involvement in the assessment of proposed and future exploration and development projects, including the proposed Pine Point Mine. It will also inform iterations of the southern NWT boreal caribou regional range plan.</p>
<p>6. Participatory monitoring of wildlife community responses to landscape change in the South Slave (CIMP246)</p> <p>To document and analyze occurrence data for wildlife communities, including boreal caribou.</p> <ul style="list-style-type: none"> • <i>GNWT – Environment and Climate Change</i> 	<p>Project Year – 1 of 3</p> <p>Main Topic – Caribou</p> <p>Type – Science</p> <p>Decision-makers who may use results: FSMC, SLFN, NWTMN, GNWT, ECCC, PC, MVEIRB</p>	<p>Project results will improve understanding of both cumulative impacts and baseline conditions. Results will contribute to conservation and management decisions including species at risk, recovery strategies and management plans.</p>

Purpose	Current Status	Intended Outcome
<p><i>Brad Woodworth</i> Brad.Woodworth@gov.nt.ca</p>		
<p>7. Fort Smith Métis Council Ecotoxicology and Monitoring of Cumulative Effects on the Slave River (CIMP232)</p> <p>To develop an aquatic monitoring program along the Slave River.</p> <ul style="list-style-type: none"> • <i>Fort Smith Métis Council</i> <i>Jon McDonald</i> fieldworker@fortsmithmetis.ca 	<p>Project Year – 2 of 3</p> <p>Main Topic – Fish and Water</p> <p>Type – Science</p> <p>Decision-makers who may use results: FSMC, NWTMN, GNWT, Town of Fort Smith</p>	<p>This project will provide baseline data and fill knowledge gaps. The community-led and implemented project will build capacity and answer community concerns.</p>
<p>8. North Slave Métis Alliance Winter Road Monitoring Program (CIMP243-BG)</p> <p>To quantify spatial and temporal relationships between caribou occurrence and mortality with caribou disturbance factors along the Tibbitt to Contwoyto Winter Road throughout the winter road season.</p> <ul style="list-style-type: none"> • <i>North Slave Métis Alliance</i> <i>Noah Johnson</i> noah.johnson@nsma.net or lands@nsma.net 	<p>Project Year – 2 of 3</p> <p>Main Topic – Caribou</p> <p>Type – Traditional Knowledge</p> <p>Decision-makers who may use results: NSMA, GNWT, BCWG, CGC, MVLWB, WLWB, WRRB</p>	<p>This project will establish a baseline of monitoring data along the Tibbitt-to-Contwoyto winter road from a Métis perspective. The community-led and implemented project will build capacity and answer community concerns.</p>
<p>9. North Slave Métis: Understanding the Past and Planning for the Future (CIMP248)</p> <p>To document NSMA Traditional Knowledge of environmental change and to restructure a database for use in decision-making.</p> <ul style="list-style-type: none"> • <i>North Slave Métis Alliance</i> <i>Jessica Smart</i> jessica.smart@nsma.net or lands@nsma.net 	<p>Project Year – 1 of 3</p> <p>Main Topic – Caribou, Water, Fish</p> <p>Type – Traditional Knowledge</p> <p>Decision-makers who may use results: NSMA, GNWT, IGIOs, CGC, WRRB, PC, CIRNAC</p>	<p>This project will provide an understanding of how changes to the land have impacted NSMA members' lives, livelihoods, relationship with the land and with fellow members. Results can be used by NSMA in decision-making related to northern resource management, mining development and wildlife.</p>

Purpose	Current Status	Intended Outcome
<p>10. Wildfires and contaminated landscapes: The impact of wildfire on the mobility, transport and fate of metal(oids) in a subarctic shield landscape (CIMP250)</p> <p>To investigate how wildfire will affect the stability and fate of metals and metalloids in contaminated and pristine landscapes.</p> <ul style="list-style-type: none"> <i>Aurora Research Institute</i> <i>Mike Palmer</i> mpalmer@auroracollege.nt.ca 	<p>Project Year – 1 of 3</p> <p>Main Topic – Water</p> <p>Type – Science</p> <p>Decision-makers who may use results: YKDFN, TG, GNWT, MVEIRB, MVLWB</p>	<p>This project will investigate how cumulative impacts of wildfire and legacy mining contamination may impact local surface waters and the potential downstream transport to Great Slave Lake. Project results will help inform how environmental baselines are changing with increased severity and frequency of wildfire.</p>
Dehcho Region		
<p>11. Understanding and predicting spatial variability in fish mercury levels in the Dehcho region lakes (CIMP154)</p> <p>To understand factors that affect the safety and quality of key subsistence food fish species and to contribute knowledge to predict effects of current and future environmental change on fish mercury concentrations and fish health.</p> <ul style="list-style-type: none"> <i>University of Waterloo</i> <i>Heidi Swanson</i> heidi.swanson@uwaterloo.ca 	<p>Project Year – 12 of 12</p> <p>Main Topic – Fish, Water</p> <p>Type – Science</p> <p>Decision-makers who may use results: DFN, GNWT</p>	<p>This project will help identify priority variables and systems for monitoring at multiple spatial scales and help identify systems most vulnerable to disturbance-induced increases in fish mercury concentrations. The results will contribute to identifying healthy sources of subsistence food fish for communities.</p>
<p>12. Cumulative effects assessment in the Liard and Petitot River Basins (CIMP236)</p> <p>To develop an improved historical and contemporary baseline understanding of aquatic ecosystem health in the Liard River and Fisherman Lake area.</p> <ul style="list-style-type: none"> <i>Acho Dene Koe First Nation</i> 	<p>Project Year – 2 of 3</p> <p>Main Topic – Water</p> <p>Type – Science</p> <p>Decision-makers who may use results: ADKFN, GNWT</p>	<p>This project helps to understand present and historic conditions of key waterbodies within ADK territory and develops community capacity to establish a continuous monitoring program.</p>

Purpose	Current Status	Intended Outcome
<p><i>Mark MacDougall</i> lands@adkfirstnation.ca</p>		
<p>13. Science and management of blue-green algal (cyanobacteria) blooms in Sambaa K'e (CIMP251)</p> <p>To investigate the influence of climate-related variables and municipal wastewaters on nutrients and cyanobacteria in Sambaa K'e.</p> <ul style="list-style-type: none"> <i>York University</i> <i>Jennifer Korosi</i> jkorosi@yorku.ca 	<p>Project Year – 1 of 3</p> <p>Main Topic – Water</p> <p>Type – Science</p> <p>Decision-makers who may use results: SKFN, Dehcho AAROM, DFN, GNWT, MVLWB</p>	<p>This project will help understand cumulative impacts by examining the linkages between cyanobacteria blooms and nutrient cycling and providing novel baseline data on discharge and nutrient loading in the Island River.</p>
Gwich'in Settlement Area		
<i>Currently, there are no projects funded in the Gwich'in Settlement Area</i>		
Sahtú Settlement Area		
<p>14. How are changes on the land affecting water resources around Fort Good Hope and Ts'ude Niline Tuyeta? (CIMP215)</p> <p>To build on current research to quantify the cumulative impacts of stressors on key ecosystem components by monitoring and predicting the response of aquatic ecosystems to environmental changes.</p> <ul style="list-style-type: none"> <i>Institut national de la recherche scientifique</i> <i>Jerome Comte</i> Jerome.Comte@inrs.com 	<p>Project Year – 5 of 6</p> <p>Main Topic – Water</p> <p>Type – Science</p> <p>Decision-makers who may use results: KGF, KGG, FGHRRC, SLWB, GNWT</p>	<p>Project results will help identify and understand trends of permafrost degradation and to anticipate cumulative impacts of climate warming and anthropogenic disturbances on aquatic health. Results will be provided for consideration in co-management resource decisions.</p>
<p>15. Social-ecological change in the Sahtú (Great Bear Lake) watershed: Cumulative impacts on Dene ts'ı́ı̄ (knowledge and cultural identity) and relationships to fish (CIMP229)</p>	<p>Project Year – 3 of 3</p> <p>Main Topic – Fish, people</p> <p>Type – Traditional</p>	<p>This project will contribute to bringing together Dene ts'ı́ı̄ with existing scientific data and decision-making models. The results of this project can contribute to</p>

Purpose	Current Status	Intended Outcome
<p>To document Dene ts'ìlì of social-ecological change from natural and human-induced disturbances in the Sahtú (Great Bear Lake) watershed.</p> <ul style="list-style-type: none"> <i>Déłìné Got'ine Government</i> Walter Bezha Drrc.manager@gov.deline.ca 	<p>Knowledge</p> <p>Decision-makers who may use results: DRRC</p>	<p>local, regional and territorial policy design and decision-making in the Sahtú Watershed.</p>
<p>16. Mapping and Monitoring Permafrost with Sahtú Communities (CIMP233)</p> <p>To characterize surficial geology and permafrost conditions to help understand impacts of permafrost thaw on water quality associated with terrain variability.</p> <ul style="list-style-type: none"> <i>NWT Geological Survey</i> Steve Kokelj (for Ashley Rudy) Steve.kokelj@gov.nt.ca 	<p>Project Year – 2 of 3</p> <p>Main Topic – Permafrost thaw, landscape change, water quality</p> <p>Type – Science</p> <p>Decision-makers who may use results: KGF, TMB, FGHRRRC, GNWT</p>	<p>This project provides surficial geology and permafrost terrain sensitivity maps to support community land use planning. Results will help our understanding of permafrost variability in the Sahtú region.</p>
Wek'èezhìi Region		
<p>17. Ekwò Nàxoèhdee K'è – Boots on the Ground (CIMP94)</p> <p>To monitor the Kokèti ekwò (Bathurst ekwò herd) and Sahtì ekwò (Bluenose East ekwò herd) on their summer and fall range. Additional to the ongoing monitoring, ekwò harvest monitoring and assessment of the annual harvest levels of the Kokèti ekwò, Sahtì ekwò and Beverly ekwò herds that Tìchq depend on to practice our culture, language, and way of life, will be incorporated.</p> <ul style="list-style-type: none"> <i>Tìchq Government</i> Petter Jacobsen petterjacobsen@gmail.com 	<p>Project Year – 15 of 16</p> <p>Main Topic – Caribou</p> <p>Type – Traditional Knowledge</p> <p>Decision-makers who may use results: TG, WRRB, GNWT</p>	<p>This project continues to provide results directly to decision-making processes regarding the Bathurst caribou herd and their habitat, through a number of caribou management initiatives.</p>

Purpose	Current Status	Intended Outcome
Inuvialuit Settlement Region		
<p>18. Understanding the cumulative impacts of beaver activity on stream health in the Inuvialuit Settlement Region (CIMP231)</p> <p>To investigate the spatial scale and magnitude of beaver activity on key food web processes that support fish in streams along the Inuvik-Tuktoyaktuk corridor.</p> <ul style="list-style-type: none"> • <i>Wilfrid Laurier University</i> <i>Jordan Musetta-Lambert</i> Jordan.musetta@ec.gc.ca 	<p>Project Year – 3 of 3</p> <p>Main Topic – Water, Fish</p> <p>Type – Science</p> <p>Decision-makers who may use results: ECCC, FJMC, IHTC, IJS, THTC, GNWT</p>	<p>This project will help to understand how beaver activity in the tundra may impact aquatic ecosystems, including potential to increase permafrost thaw, barriers to fish passage, and potential for mercury bioaccumulation in aquatic food webs, while addressing a community concern.</p>
<p>19. Documenting Traditional Knowledge on Boreal Caribou in the Inuvialuit Settlement Region (CIMP244)</p> <p>To document Traditional Knowledge on boreal caribou and their habitat to identify areas that are important to support management decisions.</p> <ul style="list-style-type: none"> • <i>GNWT – Environment and Climate Change</i> <i>Lisa Worthington</i> lisa.worthington@gov.nt.ca 	<p>Project Year – 1 of 2</p> <p>Main Topic – Caribou</p> <p>Type – Traditional Knowledge</p> <p>Decision-makers who may use results: IGC, IRC, EIRB, WMAC-NWT, HTC's, ECCC, GNWT</p>	<p>The results of this project will directly inform the development of the Inuvialuit Boreal Caribou Range Plan.</p>
Multiple Regions		
<p>20. Application of habitat suitability modeling and mapping to the development of Great Slave Lake Fisheries Management Strategies (CIMP132)</p> <p>To determine the quality and quantity of essential habitats needed for commercially important Lake Whitefish populations in the main basin of Great Slave Lake.</p>	<p>Project Year – 14 of 15</p> <p>Main Topic – Fish, Water</p> <p>Type – Science</p> <p>Decision-makers who may use results: DFO</p>	<p>This project will result in the development of habitat maps delineating quality and quantities of suitable habitats for Lake Whitefish in Great Slave Lake.</p> <p>Results will be used by DFO to inform management by contributing to the Great Slave Lake Integrated</p>

Purpose	Current Status	Intended Outcome
<ul style="list-style-type: none"> <i>Fisheries and Oceans Canada</i> <i>Xinhua Zhu</i> Xinhua.zhu@dfo-mpo.gc.ca 		Fisheries Management Plan (IFMP) and an Ecosystem-based Approach to Fisheries Management (EAFM) framework.
<p>21. Collaboratively Forecasting Landscape Change and Population Dynamics of the Cape Bathurst, Tuktoyaktuk Peninsula, Bluenose-West, Bluenose-East, and Bathurst Herds of Barren-ground Caribou (CIMP207-BG)</p> <p>Expanding on the current project to simulate cumulative effects of landscape change and subsequent risks to barren-ground caribou herds, using decision-support tools (ALCES Online).</p> <ul style="list-style-type: none"> <i>Wek'èezhì Renewable Resources Board</i> <i>Jody Pellissey</i> jpellissey@wrrb.ca or Melanie.Routh@gov.nt.ca 	<p>Project Year – 5 of 6</p> <p>Main Topic – Caribou</p> <p>Type – Science</p> <p>Decision-makers who may use results: GNWT, GRRB, SRRB, WMAC, WRRB</p>	Project results will influence decision-making and improve the capacity of northern decision-makers to explore research questions and drivers of barren-ground caribou population dynamics as well as test management strategies.
<p>22. NWT Streams and Rivers of the future: How permafrost thaw and groundwater activation are changing water resources (CIMP226)</p> <p>To understand how permafrost thaw is changing landscape runoff and groundwater interactions with streamflow at the catchment scale in discontinuous permafrost regions.</p> <ul style="list-style-type: none"> <i>Wilfrid Laurier University</i> <i>William Quinton</i> wquinton@wlu.ca or stephanie.wright@queensu.ca 	<p>Project Year – 3 of 3</p> <p>Main Topic – Water, Permafrost</p> <p>Type – Science</p> <p>Decision-makers who may use results: DFN, ECCC, GNWT, LKFN, MVLWB, NWTCCG, NRCAN, SKFN, TG, WRRB</p>	The results of this project will improve understanding and prediction of streamflows at the catchment scale, contributing to flood mapping and water management.

Purpose	Current Status	Intended Outcome
<p>23. Lake ice processes – fundamental for assessing ice road climate risks and vulnerability under current and future warming (CIMP238)</p> <p>To monitor water and ice of lakes using real-time monitoring systems and satellite observations to determine how future weather will influence lake ice and ice road safety in the NWT.</p> <ul style="list-style-type: none"> • <i>Wilfrid Laurier University</i> <i>Homa Kheyrollah Pour</i> hpour@wlu.ca 	<p>Project Year – 2 of 3</p> <p>Main Topic – Water</p> <p>Type – Science</p> <p>Decision-makers who may use results: LKDFN, NSMA, DGG, ECCC, GNWT, ARI</p>	<p>Project results will help develop a practical and user-friendly model to help predict lake ice and ice road safety under future climate change risks.</p>
<p>24. Contaminants, caribou epigenetics and genomic health (CIMP240-BG)</p> <p>To explore relationships between contaminants in caribou and the sublethal effects that could affect caribou survival, reproduction and recruitment.</p> <ul style="list-style-type: none"> • <i>McGill University</i> <i>Rowan Barrett</i> Rowan.barrett@mcgill.ca 	<p>Project Year – 2 of 3</p> <p>Main Topic – Caribou</p> <p>Type – Science</p> <p>Decision-makers who may use results: VGG, CIRNAC, GNWT, GRRB, SRRB, WMAC, WRRB</p>	<p>Using genomic tools will provide information on what contaminants may be influencing changes in gene expression linked to negative outcomes for reproduction and survival.</p>
<p>25. Comparative analysis of factors affecting caribou survival patterns (CIMP241-BG)</p> <p>To describe barren-ground caribou survival rates and how those rates may change across ranges, years and seasons.</p> <ul style="list-style-type: none"> • <i>State University of New York, College of Environmental Science and Forestry</i> <i>Chloe Beaupré/ Eliezer Gurarie</i> cbeaupre@esf.edu 	<p>Project Year – 2 of 3</p> <p>Main Topic – Caribou</p> <p>Type – Science</p> <p>Decision-makers who may use results: WRRB, TG, GNWT, BCWG</p>	<p>Project results will provide information about factors influencing survival to better understand demographic trends regionally. Results may help assess the effectiveness of the mobile restricted harvest zone and the wolf management program.</p>

Purpose	Current Status	Intended Outcome
<p>26. Using animal-borne sensors and acoustic recording units to monitor caribou behaviour, insect harassment and sound disturbance (CIMP242-BG)</p> <p>To study disturbance on barren-ground caribou from insect activity and human-made noise, by adding sound recorders and accelerometers to deployed collars.</p> <ul style="list-style-type: none"> State University of New York, College of Environmental Science and Forestry Megan Perra / Eliezer Gurarie Mperra@syr.edu 	<p>Project Year – 2 of 3</p> <p>Main Topic – Caribou</p> <p>Type – Science</p> <p>Decision-makers who may use results: NSMA, YKDFN, GNWT, WRRB, SRRB, GRRB, MVEIRB, EMAB, IEMA, TG</p>	<p>Understanding the population-level effects of insect harassment and sound disturbance will support managers' ability to predict calf survival rates and population trends, informing land-use decisions. The results may contribute to monitoring and mitigating the effects of human-made sound disturbance on caribou.</p>
<p>27. Community-defined and monitored indicators of recovery in barren-ground caribou (CIMP239-BG)</p> <p>To strengthen the role of traditional knowledge and community-based sampling in understanding caribou ecology and guiding evidence-based, pro-active stewardship actions for caribou populations. And, to identify what species of herpes and pestiviruses infect caribou and how these viruses may affect caribou populations.</p> <ul style="list-style-type: none"> University Of Calgary Susan Kutz skutz@ucalgary.ca 	<p>Project Year – 2 of 3</p> <p>Main Topic – Caribou</p> <p>Type – Traditional Knowledge, Science</p> <p>Decision-makers who may use results: KAA, ACCWM, GNWT, WRRB, SRRB, GRRB, ECCC</p>	<p>This project will identify and document community-defined health indicators of the Bluenose East caribou herd, compare them to decreasing herds and establish benchmarks. It will also improve our understanding of the viruses that affect caribou and their influence on caribou survival and reproduction.</p> <p>Results will contribute to the development of a management tool to assess population status through community-defined and derived indicators and benchmarks.</p>
<p>28. Documenting Gwich'in and Inuvialuit Dolly Varden management history and contemporary fisheries objectives (CIMP235)</p>	<p>Project Year – 2 of 2</p> <p>Main Topic – Fish</p> <p>Type – Traditional</p>	<p>This project will allow co-management partners and community members to evaluate alternative harvest rules, by</p>

Purpose	Current Status	Intended Outcome
<p>To better understand the fishery from the perspective of local knowledge holders, harvesters and community members and to predict fish abundance using models.</p> <ul style="list-style-type: none"> • <i>Simon Fraser University</i> <i>Brett van Poorten</i> bvanpoor@sfu.ca 	<p>Knowledge</p> <p>Decision-makers who may use results: WSWG, RSWG, FJMC, IJS, GRRB, DFO, PC</p>	<p>identifying quantitative fisheries objectives and promote fisheries sustainability from the perspective of all partners and community members.</p>
<p>29. Impacts of wildfire on runoff response and downstream water chemistry in a region with rapid permafrost loss (CIMP249)</p> <p>To assess the impacts of wildfires and permafrost thaw on water resources in the Dehcho and South Slave regions.</p> <ul style="list-style-type: none"> • <i>University of Alberta</i> <i>David Olefeldt</i> olefeldt@ualberta.ca 	<p>Project Year – 1 of 3</p> <p>Main Topic – Water</p> <p>Type – Science</p> <p>Decision-makers who may use results: LKFN, Dehcho AAROM, KFN, MVLWB, GNWT</p>	<p>This project will work at a local peatland scale to understand controlling processes, and a larger catchment scale to understand broader impacts. The water quality analyses will help inform decisions related to water flow and chemistry for food and water security, as well as flood risk management.</p>
<p>30. Environmental and human factors that best predict boreal caribou survival and population trends in the NWT (CIMP247)</p> <p>To test the suitability of the national recovery strategy framework for boreal caribou in the NWT and to investigate which factors have the greatest impact on survival.</p> <ul style="list-style-type: none"> • <i>GNWT – Environment & Climate Change</i> <i>James Hodson</i> James_hodson@gov.nt.ca 	<p>Project Year – 1 of 3</p> <p>Main Topic – Caribou</p> <p>Type – Science</p> <p>Decision-makers who may use results: IGIOs, MVEIRB, MVLWB, ECCC, GNWT</p>	<p>Project results may be used to propose new NWT-specific models and management actions that best predict boreal caribou adult female and calf survival. These updated NWT-specific parameters will help to better manage habitat for self-sustaining boreal caribou populations.</p>

Listed Decision-maker acronyms:

AAROM	Aboriginal Aquatic Resource and Oceans Management
ACCWM	Advisory Committee for Cooperation on Wildlife Management
ADKFN	Acho Dene Koe First Nation

ARI	Aurora Research Institute
ATG	Akaiicho Territory Government
BCWG	Bathurst Caribou Working Group
CGC	Caribou Guardians Coalition
CIRNAC	Crown-Indigenous Relations and Northern Affairs Canada
DFN	Dehcho First Nations
DFO	Fisheries and Oceans Canada
DGG	Délıne Got'ıne Government
DRRC	Délıne Renewable Resources Council
ECCC	Environment and Climate Change Canada
EIRB	Environmental Impact Review Board
EMAB	Environmental Monitoring Advisory Board
FGHRRC	Fort Good Hope Renewable Resources Council
FJMC	Fisheries Joint Management Committee
FSMC	Fort Smith Métis Council
GNWT	Government of the Northwest Territories
GRRB	Gwich'in Renewable Resources Board
HTC's	Hunter's and Trapper's Committees
IEMA	Independent Environmental Monitoring Agency
IGC	Inuvialuit Game Council
IGIOs	Indigenous Governments and Indigenous Organizations
IHTC	Inuvik Hunters and Trappers Committee
IJS	Inuvialuit Joint Secretariat
IRC	Inuvialuit Regional Corporation
KAA	Kugluktuk Angoniatit Association
KFN	Kát'odeeche First Nation
KGF	K'áhshó Got'ıne Foundation
KGG	K'áhshó Got'ıne Guardians
LKDFN	Łutsel K'e Dene First Nation
LKFN	Łı́ıdlı́ Kúé First Nation
MVEIRB	Mackenzie Valley Environmental Impact Review Board
MVLWB	Mackenzie Valley Land and Water Board
NRCan	Natural Resources Canada
NSMA	North Slave Métis Alliance
NWTCCG	Northwest Territories Centre for Geomatics
NWTMN	Northwest Territory Métis Nation
PC	Parks Canada
RRWG	Rat River Working Group
SKFN	Sambaa K'e First Nation
SLFN	Smith's Landing First Nation
SLWB	Sahtú Land and Water Board
SRRB	Sahtú Renewable Resources Board
TG	Tı́chó Government
THTC	Tuktoyaktuk Hunter and Trappers Committee
TMB	Tuyeta Management Board

VGG	Vuntut Gwitchin Government
WLWB	Wek'èezhì Land and Water Board
WMAC	Wildlife Management Advisory Council
WRRB	Wek'èezhì Renewable Resources Board
WSWG	West Side Working Group
YKDFN	Yellowknives Dene First Nation