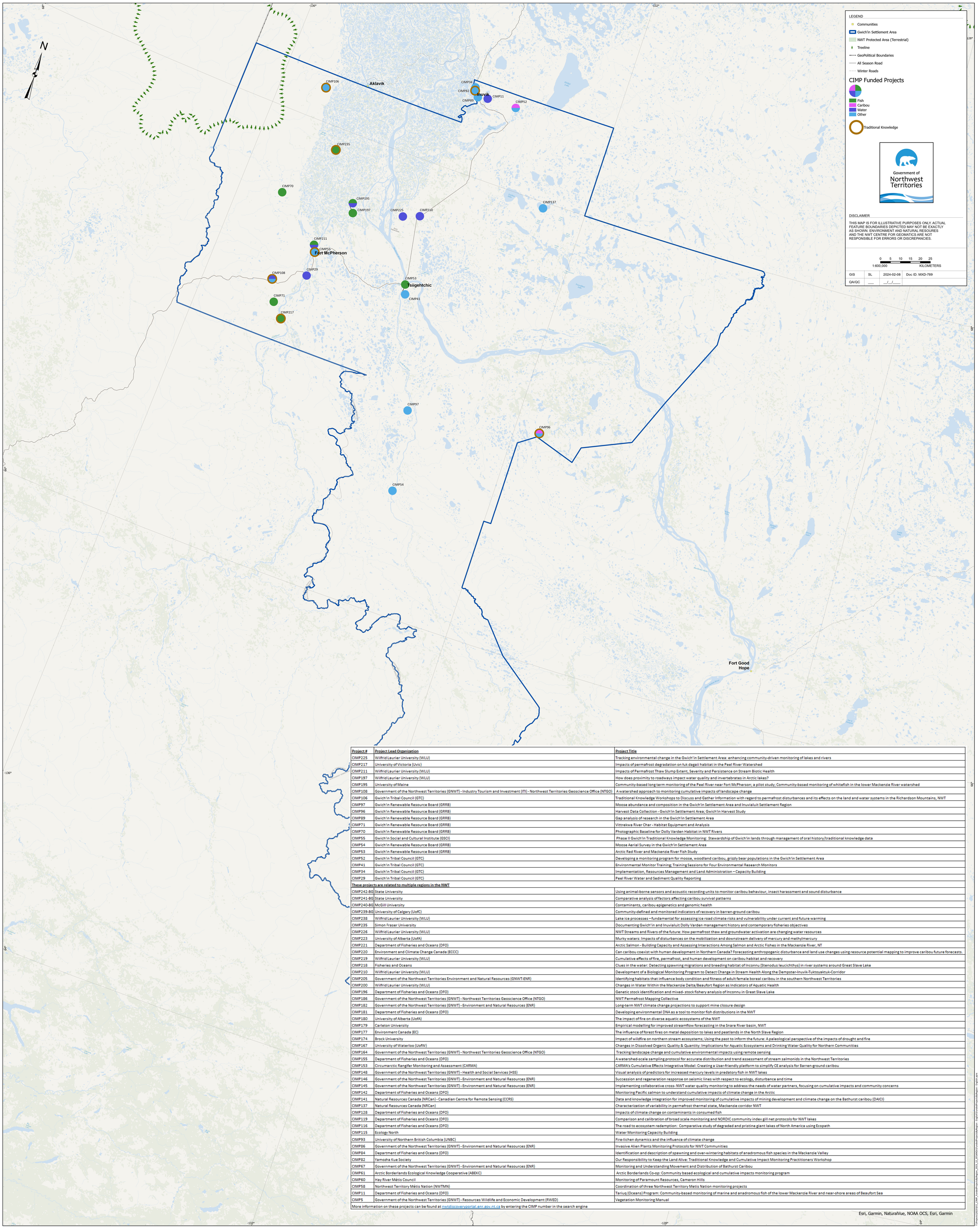
# NWT CIMP FUNDED PROJECTS IN THE GWICH'IN SETTLEMENT AREA 1999-2024




| Project # | Project Lead Organization | Project Title |
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| CIMP225 | Wilfrid Laurier University (WLU) | Tracking environmental change in the Gwich'in Settlement Area: enhancing community-driven monitoring of lakes and rivers |
| CIMP217 | University of Victoria (Uvic) | Impacts of permafrost degradation on łuk dagaii habitat in the Peel River Watershed |
| CIMP211 | Wilfrid Laurier University (WLU) | Impacts of Permafrost Thaw Slump Extent, Severity and Persistence on Stream Biotic Health |
| CIMP197 | Wilfrid Laurier University (WLU) | How does proximity to roadways impact water quality and invertebrates in Arctic lakes? |
| CIMP195 | University of Maine | Community-based long term monitoring of the Peel River near Fort McPherson; a pilot study; Community-based monitoring of whitefish in the lower Mackenzie River watershed |
| CIMP108 | Government of the Northwest Territories (GNWT) - Industry Tourism and Investment (ITI) - Northwest Territories Geoscience Office (NTGO) | A watershed approach to monitoring cumulative impacts of landscape change |
| CIMP106 | Gwich'in Tribal Council (GTC) | Traditional Knowledge Workshops to Discuss and Gather Information with regard to permafrost disturbances and its effects on the land and water systems in the Richardson Mountains, NWT |
| CIMP97 | Gwich'in Renewable Resource Board (GRRB) | Moose abundance and composition in the Gwich'in Settlement Area and Inuvialuit Settlement Region |
| CIMP96 | Gwich'in Renewable Resource Board (GRRB) | Harvest Data Collection - Gwich'in Settlement Area; Gwich'in Harvest Study |
| CIMP89 | Gwich'in Renewable Resource Board (GRRB) | Gap analysis of research in the Gwich'in Settlement Area |
| CIMP71 | Gwich'in Renewable Resource Board (GRRB) | Vittrekwa River Char - Habitat Equipment and Analysis |
| CIMP70 | Gwich'in Renewable Resource Board (GRRB) | Photographic Baseline for Dolly Varden Habitat in NWT Rivers |
| CIMP55 | Gwich'in Social and Cultural Institute (GSCI) | Phase II Gwich'in Traditional Knowledge Monitoring: Stewardship of Gwich'in lands through management of oral history/traditional knowledge data |
| CIMP54 | Gwich'in Renewable Resource Board (GRRB) | Moose Aerial Survey in the Gwich'in Settlement Area |
| CIMP53 | Gwich'in Renewable Resource Board (GRRB) | Arctic Red River and Mackenzie River Fish Study |
| CIMP52 | Gwich'in Tribal Council (GTC) | Developing a monitoring program for moose, woodland caribou, grizzly bear populations in the Gwich'in Settlement Area |
| CIMP41 | Gwich'in Tribal Council (GTC) | Environmental Monitor Training; Training Sessions for Four Environmental Research Monitors |
| CIMP34 | Gwich'in Tribal Council (GTC) | Implementation, Resources Management and Land Administration – Capacity Building |
| CIMP29 | Gwich'in Tribal Council (GTC) | Peel River Water and Sediment Quality Reporting |
| **These projects are related to multiple regions in the NWT** | | |
| CIMP242-BG | State University | Using animal-borne sensors and acoustic recording units to monitor caribou behaviour, insect harassment and sound disturbance |
| CIMP241-BG | State University | Comparative analysis of factors affecting caribou survival patterns |
| CIMP240-BG | McGill University | Contaminants, caribou epigenetics and genomic health |
| CIMP239-BG | University of Calgary (UofC) | Community-defined and monitored indicators of recovery in barren-ground caribou |
| CIMP238 | Wilfrid Laurier University (WLU) | Lake ice processes – fundamental for assessing ice road climate risks and vulnerability under current and future warming |
| CIMP235 | Simon Fraser University | Documenting Gwich'in and Inuvialuit Dolly Varden management history and contemporary fisheries objectives |
| CIMP226 | Wilfrid Laurier University (WLU) | NWT Streams and Rivers of the future: How permafrost thaw and groundwater activation are changing water resources |
| CIMP223 | University of Alberta (UofA) | Murky waters: Impacts of disturbances on the mobilization and downstream delivery of mercury and methylmercury |
| CIMP221 | Department of Fisheries and Oceans (DFO) | Arctic Salmon - Building Capacity and Assessing Interactions Among Salmon and Arctic Fishes in the Mackenzie River, NT |
| CIMP220 | Environment and Climate Change Canada (ECCC) | Can caribou coexist with human development in Northern Canada? Forecasting anthropogenic disturbance and land use changes using resource potential mapping to improve caribou future forecasts. |
| CIMP219 | Wilfrid Laurier University (WLU) | Cumulative effects of fire, permafrost, and human development on caribou habitat and recovery |
| CIMP218 | Fisheries and Oceans | Clues in the water: Detecting spawning migrations and breeding habitat of Inconnu (Stenodus leucichthys) in river systems around Great Slave Lake |
| CIMP210 | Wilfrid Laurier University (WLU) | Development of a Biological Monitoring Program to Detect Change in Stream Health Along the Dempster-Inuvik-Tuktoyaktuk-Corridor |
| CIMP205 | Government of the Northwest Territories Environment and Natural Resources (GNWT-ENR) | Identifying habitats that influence body condition and fitness of adult female boreal caribou in the southern Northwest Territories |
| CIMP200 | Wilfrid Laurier University (WLU) | Changes in Water Within the Mackenzie Delta/Beaufort Region as Indicators of Aquatic Health |
| CIMP196 | Department of Fisheries and Oceans (DFO) | Genetic stock identification and mixed- stock fishery analysis of Inconnu in Great Slave Lake |
| CIMP186 | Government of the Northwest Territories (GNWT) - Northwest Territories Geoscience Office (NTGO) | NWT Permafrost Mapping Collective |
| CIMP182 | Government of the Northwest Territories (GNWT) - Environment and Natural Resources (ENR) | Long-term NWT climate change projections to support mine closure design |
| CIMP181 | Department of Fisheries and Oceans (DFO) | Developing environmental DNA as a tool to monitor fish distributions in the NWT |
| CIMP180 | University of Alberta (UofA) | The impact of fire on diverse aquatic ecosystems of the NWT |
| CIMP179 | Carleton University | Empirical modelling for improved streamflow forecasting in the Snare River basin, NWT |
| CIMP177 | Environment Canada (EC) | The influence of forest fires on metal deposition to lakes and peatlands in the North Slave Region |
| CIMP174 | Brock University | Impact of wildfire on northern stream ecosystems; Using the past to inform the future: A paleological perspective of the impacts of drought and fire |
| CIMP167 | University of Waterloo (UofW) | Changes in Dissolved Organic Quality & Quantity: Implications for Aquatic Ecosystems and Drinking Water Quality for Northern Communities |
| CIMP164 | Government of the Northwest Territories (GNWT) - Northwest Territories Geoscience Office (NTGO) | Tracking landscape change and cumulative environmental impacts using remote sensing |
| CIMP155 | Department of Fisheries and Oceans (DFO) | A watershed-scale sampling protocol for accurate distribution and trend assessment of stream salmonids in the Northwest Territories |
| CIMP153 | Circumarctic Rangifer Monitoring and Assessment (CARMA) | CARMA's Cumulative Effects Integrative Model: Creating a User-friendly platform to simplify CE analysis for Barren-ground caribou |
| CIMP148 | Government of the Northwest Territories (GNWT) - Health and Social Services (HSS) | Visual analysis of predictors for increased mercury levels in predatory fish in NWT lakes |
| CIMP146 | Government of the Northwest Territories (GNWT) - Environment and Natural Resources (ENR) | Succession and regeneration response on seismic lines with respect to ecology, disturbance and time |
| CIMP145 | Government of the Northwest Territories (GNWT) - Environment and Natural Resources (ENR) | Implementing collaborative cross- NWT water quality monitoring to address the needs of water partners, focusing on cumulative impacts and community concerns |
| CIMP142 | Department of Fisheries and Oceans (DFO) | Monitoring Pacific salmon to understand cumulative impacts of climate change in the Arctic |
| CIMP141 | Natural Resources Canada (NRCan) - Canadian Centre for Remote Sensing (CCRS) | Data and knowledge integration for improved monitoring of cumulative impacts of mining development and climate change on the Bathurst caribou (DAICI) |
| CIMP137 | Natural Resources Canada (NRCan) | Characterization of variability in permafrost thermal state, Mackenzie corridor NWT |
| CIMP128 | Department of Fisheries and Oceans (DFO) | Impacts of climate change on contaminants in consumed fish |
| CIMP119 | Department of Fisheries and Oceans (DFO) | Comparison and calibration of broad scale monitoring and NORDIC community index gill net protocols for NWT lakes |
| CIMP116 | Department of Fisheries and Oceans (DFO) | The road to ecosystem redemption: Comparative study of degraded and pristine giant lakes of North America using Ecopath |
| CIMP115 | Ecology North | Water Monitoring Capacity Building |
| CIMP93 | University of Northern British Columbia (UNBC) | Fire-lichen dynamics and the influence of climate change |
| CIMP86 | Government of the Northwest Territories (GNWT) - Environment and Natural Resources (ENR) | Invasive Alien Plants Monitoring Protocols for NWT Communities |
| CIMP84 | Department of Fisheries and Oceans (DFO) | Identification and description of spawning and over-wintering habitats of anadromous fish species in the Mackenzie Valley |
| CIMP82 | Yamozha Kue Society | Our Responsibility to Keep the Land Alive: Traditional Knowledge and Cumulative Impact Monitoring Practitioners Workshop |
| CIMP67 | Government of the Northwest Territories (GNWT) - Environment and Natural Resources (ENR) | Monitoring and Understanding Movement and Distribution of Bathurst Caribou |
| CIMP61 | Arctic Borderlands Ecological Knowledge Cooperative (ABEKC) | Arctic Borderlands Co-op: Community based ecological and cumulative impacts monitoring program |
| CIMP60 | Hay River Métis Council | Monitoring of Paramount Resources, Cameron Hills |
| CIMP58 | Northwest Territory Métis Nation (NWTMN) | Coordination of three Northwest Territory Metis Nation monitoring projects |
| CIMP11 | Department of Fisheries and Oceans (DFO) | Tariuq (Oceans) Program: Community-based monitoring of marine and anadromous fish of the lower Mackenzie River and near-shore areas of Beaufort Sea |
| CIMP5 | Government of the Northwest Territories (GNWT) - Resources Wildlife and Economic Development (RWED) | Vegetation Monitoring Manual |

More information on these projects can be found at nwtdiscoveryportal.enr.gov.nt.ca by entering the CIMP number in the search engine