



September 27, 2024

Notice of Proceeding

Mackenzie Valley Highway Environmental Assessment

RE: Community Sessions

The Review Board plans to hold community sessions in the Dehcho and Sahtú regions to gather more information from land users and community members about potential impacts of the proposed Mackenzie Valley Highway.¹² These sessions are part of the analytical phase and are about information gathering. They are different and separate from the community public hearings that will happen during the hearing phase, when evidence will also be tested.

Focus of community sessions

The Review Board would like to focus on local concerns and knowledge (including Indigenous Traditional Knowledge) about potential cultural, social, and environmental impacts of the proposed road, and mitigation for those impacts. Information from these sessions, including summary reports and audio recordings or written transcripts, will be added to the public record.³

There will be two parts to the sessions:

1. **Facilitated sessions** run as round-tables for Elders, Traditional Knowledge holders, and traditional land users. These will be:

¹ Following Rule 65 of the [Rules of Procedure](#), the Review Board may secure both written and oral evidence or comments from Parties to a proceeding using any means of communication it sees fit.

² Following Rule 21 of the [Rules of Procedure](#), any person, organization, or Indigenous Government or Organization that provides public comments to the Board or otherwise participated in a part of a proceeding will be deemed to be a Party to that Proceeding.

³ Parties who wish to raise issues related to information from the community sessions at the hearings should reference important evidence when preparing their interventions before the hearings, later in the EA process.



- facilitated by Joanne Barnaby or Natasha Thorpe⁴
 - a culturally appropriate option for participation
 - an opportunity for specific relevant information to be raised
 - summarized in a report written by the facilitators
- 2. Community round-table** for the public
- open to the public, with lots of time for anyone to speak

More details about the timing and agenda for each community session will be released in early October.

Locations of community sessions

The Review Board plans to hold these sessions in Fort Simpson, Wrigley, Norman Wells, Tulit'a, and Délı̄nę. The Review Board also expects the developer to participate. Other Parties are welcome to attend.

Here are the session details:

- Fort Simpson (Łı́ıdlı̄ Kúę): October 16
- Wrigley (Pehdzeh Ki): October 17
- Norman Wells (Tłęgóhı̄): October 21
- Délı̄nę: October 22
- Tulit'a: October 23

Direction on the Rules of Procedure: Review Board members at community sessions

As described in the [Rules of Procedure](#), community sessions normally occur without Review Board members present. For this environmental assessment, the Review Board is varying the Rules so that Review Board members can attend the community sessions.⁵

Several Review Board members will be present as observers to listen to the evidence and positions raised by the Elders, Traditional Knowledge holders, Parties and the public at the sessions. Review Board members who do not attend in person will review the audio recordings and any summary reports of the sessions.

If any Parties have suggestions to improve this approach, please share these with Review Board staff by October 4, 2024.

⁴ Joanne Barnaby and Natasha Thorpe are accomplished northern facilitators, and Joanne is a Traditional Knowledge specialist (CVs attached).

⁵ Following Rule 8 of the [Rules of Procedure](#), the Review Board may, by its own motion vary the Rules by issuing a Direction on the Rules.



Next Steps

A future Notice of Proceeding will describe upcoming technical sessions, which will be held in Yellowknife on November 19-21, 2024.

The primary **contact** on behalf of the Review Board for the Mackenzie Valley Highway project is Senior Environmental Assessment Advisor Catherine Fairbairn (867-766-7054, cfairbairn@reviewboard.ca).





JOANNE BARNABY
Traditional Knowledge Specialist

Introduction

Joanne Barnaby builds on over 50 years of experience working with northern and Aboriginal governments, providing both leadership and senior management services. She has served as a Special Advisor on Aboriginal Rights to the Premier of the NWT and a Traditional Knowledge Special Advisor to the Canadian Delegation on the Biodiversity Convention. Ms. Barnaby was instrumental in the development of a government wide traditional knowledge policy in the Northwest Territories and in securing Indigenous knowledge on the United Nations Biodiversity Agenda. Through her work as founding CEO for the Dene Cultural Institute, Joanne established a range of traditional knowledge research and development programs. The development of effective research methodology has led to Aboriginal/Indigenous communities sharing their knowledge with others with confidence that it will be respected by the social science community, industry and government. These programs are recognized as leading edge initiatives that now serve as models for Indigenous communities world-wide.

In her public policy work, Joanne focuses her energy on creating the means for building on the strengths of both aboriginal and non-aboriginal cultures to address the challenges facing northern and aboriginal communities. Her two terms on the Board of Directors of the Science Institute of the NWT together with her pioneering work at the Dene Cultural Institute to bring forward traditional knowledge in a modern-day context, has provided her with the unique experience to fully appreciate the needs and opportunities associated with development initiatives. Her work now emphasizes building economic, cultural, social and environmental sustainability using western and indigenous traditional knowledge systems. Her innovative work bringing together Indigenous knowledge and conventional science, where appropriate, has supported Indigenous communities and others in working together to better understand complex environmental guardians and monitoring programs. Ms. Barnaby uses an educational approach to facilitating public and aboriginal participation in the consideration of public policy and in development projects, providing an opportunity to increase appreciation and understanding of the value of each knowledge system. Her long-standing working relationships with northern leaders and Elders as well as with public governments has provided her with the communication skills required to bridge the understandings needed in diverse policy development, capacity-building, two-eyed seeing, resource-development, environmental and social impact assessment contexts..

Leading Seminars, Workshops & Conferences:

Highlights of services provided:

- NWT-Alberta Transboundary Water Agreement – Designing a framework for the implementation of the 2016 Agreement following a literature review conducted in 2019 in partnership with Natasha Thorpe - current
- Traditional knowledge as the basis to plan for closure and reclamation of the Diavik Diamond Mine - Environment Monitoring Agency 2012- 2021
- Monitoring fish and water using traditional techniques as part of the Aquatic Effects program at Diavik - 2012- 2021
- Diavik Diamond Mines (2012) Inc. TK Panel -
For over eight years, co-developed and co-facilitated the DDMI TK Panel consisting of representatives from five Indigenous groups that are signatories to the Environmental Agreement. Collaborating with Natasha Thorpe, work included meeting several times per year on-site and underground, and developing recommendations for closure planning, tracking implementation and reporting back to communities.
- Nuclear Waste Management Organization- Facilitating various initiatives for the inclusion of traditional knowledge in the development of a waste management strategy - ongoing since 2003
- Smith Landing First Nation – Designing a strategy to prepare community members to participate in public review processes of development projects by detailing *Dene Chani* (the way forward or vision) as a starting point for assessing any given proposal
- National Energy Board: Developed and delivered a seminar on TK in the regulatory process - 2016
- K'ahsho Got'ine Council - Facilitating community input into Self-Government Negotiations
- DeBeers: Created and tested cultural competency training programs - 2008
- Diavik Diamond Mines: Build and facilitated extensive cultural and traditional knowledge awareness programs – 2001-2009
- Husky Oil – Cultural Awareness Program – sessions in camps and Executive session in Calgary
- Mackenzie Valley Review Board: Traditional Knowledge and Cultural Impacts of Prairie Creek Mine All Season Road – Facilitated and reported on multiple community workshops in Nahanni Butte and Fort Simpson 2016
- Sahtu Regional and Fort Good Hope : Community Facilitator considering the impacts of the proposed Mackenzie Gas Project (MGP)– 2005
- Katlodeechee First Nation: Led strategic and cultural development planning July-August 2005
- Arctic Council – Provided extensive chairing, facilitation & research services 2007 - 2009
- Dehcho First Nations and MACA- Facilitated multi-party Regional Pipeline Readiness Workshop, March 2005. Participants included community and First Nation, industry and GNWT representatives.

Educational workshop and course design

- GNWT Legislative Assembly: Designed and co-chaired two northern leaders conferences that included Aboriginal and public governments aimed at formulating a common agenda.
- Aboriginal Summit: facilitated the development of a devolution negotiation strategy.
- Aurora College: Designed seminars for program managers and adult educators on the use of traditional knowledge in a variety of programs
- NWT Power Corporation – An educational seminar on the value, use and methodology of using traditional knowledge in resource planning and management.
- National Energy Board and Natural Resources Canada: Built and delivered A seminar on integrating Indigenous knowledge in project assessment and resource management.
- Environment Canada: Established partnerships with Aboriginal communities in the management of National Parks.
- DIAND: Facilitating the development of guidelines and recommendations for the NWT Cumulative Effects and Management Strategy for the full utilization of traditional knowledge in northern management
- Mackenzie Valley Environmental Impact Review Board- Facilitating a territorial workshop to establish guidelines on the use of TK in the environmental impact assessment process.
- Athabasca Cumulative Effects Management Association, Fort McMurray - Facilitating agreements between Aboriginal communities, industry, governments and environmental groups for a joint approach to using science and traditional knowledge in managing development.
- Banff Centre for Management: Codevelop and deliver annual courses on indigenous traditional knowledge and environmental assessments
- GNWT Department of Public Works: National Workshop on indigenous traditional knowledge and development in the Atlantic region structured to solve problems and build capacity amongst stakeholders
- Wek'eezhi Renewable Resources Board: Addressing caribou management challenges effectively through collaboration – design and delivery of a pan northern conference
- Smith's Landing First Nation: Generated a community governance plan working with elders - 2011-2012

Presentations: A series of educational mini-workshops delivered to Federal Agencies including Natural Resources Canada, the National Round Table on the Environment and the Economy, the Mackenzie Valley Land and Water Board, the Department of Environment and Parks Canada, designed to recognize the value and understand the strengths of using both traditional knowledge and western science in the development and management processes

Various policy development initiatives with elected leaders and staff – Tlicho Government, Katlodeeche First Nation, Wha Ti First Nation, Deh Gah Got'ie First Nation, Dehcho First Nations, West Point First Nation, Llidli Ku First Nation, Fort McKay First Nation, Wekweti ? First Nation, and Kasho Go'tine First Nation

Traditional Knowledge Research

Advisory services to the Faro Mine Closure office 2007. Assessing the traditional knowledge needs in Pelly Crossing and Ross River to effectively bring traditional knowledge forward in the planning process. Assist the technical team to understand the challenges and opportunities associated with traditional knowledge.

Traditional Knowledge Research:

- Identifying the knowledge and capacity building needs of Industry, Aboriginal communities, governments and co-management boards in the full use of TK in the resource development process - Developed for DIAND
- Wekèezhì Land and Water Board- Assessing capacity to fully utilize traditional knowledge in carrying out their role in the management of land and water permits
- Dogrib Treaty 11 Council- A research project to advance three areas for consideration under the Protected Area Strategy by working with Dogrib Elders and their knowledge of their regional environment
- As Executive Director of the Dene Cultural Institute: Traditional Environmental Knowledge pilot project, Fort Good Hope; Documenting traditional medicine in Fort McPherson and Wha Ti; and Research on Dogrib Traditional Governance and Justice systems. Designed and established TK research guidelines.

Employment History Summary

Self-employed: 1999 - present

Advisor to the Canadian Delegation on the Biodiversity Convention: 1998-2001

Executive Director, Dene Cultural Institute: 1987- 1999

Special Advisor to the NWT Premier: 1996-1999

National Comprehensive Claims Coalition: 1986-1987

Acting Research Director, Dene/Metis Land Claims Secretariat: 1985-1986

Director, Lands and Resources, Dene Nation: 1983-1985

Editor, Dene Nation Newsletter: 1982-1983

Consultant, Fort Good Hope Band: 1979-1982

Coordinator Community Development Training Program, Dene Nation: 1978-1979

Community Development Officer, Dene Nation: 1976-1978

Coordinator, History Project, Metis Association of the NWT: 1974-1975

References

Bob Watts, Vice-President, Nuclear Waste Management Organization 647-960-2849

Joe Handley (former Premier) Yellowknife Ph: 867-444-1635

Chief Roy Fabian, Katlodeeche First Nation, Hay River Ph: 867-874-6701

Cindy Gilday (formerly with Diavik) Yellowknife Ph: 867-444-0897

Don Morin (former Premier) Yellowknife Ph: 867-445-6500



Natasha Thorpe, M.R.M.

North Vancouver, BC 604.999.1004 nthorpe@tcservices.ca

Background

Natasha has over twenty-five years of experience leading and supporting community consultation and engagement, social management, environmental assessment, ecological risk assessment, community-based monitoring/guardians' programs, capacity building, cultural competency, sustainability planning, Indigenous Knowledge (IK) and two-eyed seeing processes. A natural bridge-builder, Natasha is a skilled facilitator in corporate and field settings bringing together peoples, generations, genders, organizations, perspectives, interests and disciplines related to resource management. Her clients include governments, industry and Indigenous groups in BC, AB, SK, NU, NT and Alaska.

A northern leader in collaborating with Indigenous peoples and building meaningful and foundational corporate relationships, Natasha's innovative research has yielded integrated approaches in environmental assessment and mine management programs grounded in both IK and scientific indicators. She has directed, managed and contributed to multiple resource development projects in the mining and energy sectors and co-developed a model for bringing Indigenous expertise to mine closure that regulatory agencies across the NT have mandated other mines to replicate.

Experience

Thorpe Consulting Services Ltd. – Revelstoke and N. Van., BC 2011 to present
Principal

Highlights: provided technical expertise to BC Hydro in cultural resource mitigation planning for the Site C Clean Energy Project; managed affected Traditional Land Use (TLU) studies for a coal development environmental assessment; designed and co-facilitated the Diavik Diamond Mines Inc. Traditional Knowledge (TK) Panel; led IK research and integration into the Environmental Impact Statement (EIS) for a port-road-shipping mineral development project; supported a multi-party Indigenous committee and integrated IK as part of the Bathurst Caribou Range Plan Project Team; co-led the planning and implementation process for the Caribou Guardians Coalition; designed and implemented user needs assessment for spatial data with Indigenous communities across Canada; co-developed a database management system used to document IK *in situ* through mobile devices; produced a best practices guide for climate change adaptation in natural resource development; developed a two-eyed seeing approach around Arctic Char at an Elder-youth camp; redesigned and guided a two-eyed seeing approach for the Diavik Aquatic Effects Monitoring Program; reviewed IK frameworks for NWT-AB Bilateral Water Management Agreement decision making.

Trailmark Systems Inc. – N. Vancouver, BC
Director and Co-Founder, Community Relations

2013 - 2017

Highlights: designed, implemented and evaluated multiple community strategies and programs around resource management requiring liaising between Chief and Council, governments, NGOs and industry; designed research program and facilitated workshops with data collectors, data users and decision-makers related to a guardians network across NU; developed and carried out training programs and IK studies; co-designed database management system and mobile application; delivered training in Trailmark software and handheld mobile devices to document IK and use within Indigenous peoples' territories; facilitated workshops with Elders, youth and decision makers from five Indigenous communities to develop recommendations for industrial development grounded in IK; and collaborated with academic and government researchers and local hunters and trappers organizations to develop Inuit Quajimajatuqangit (IQ) research capacity (i.e. interviewing, video-documentary making) and to carry out an Elder-Youth IQ Camp on Arctic Char; and co-produced multiple TK / TLU video-documentaries..

Golder Associates Ltd. – Victoria and Revelstoke, BC
Environmental Scientist, Capacity Building and Engagement Specialist

2002 – 2011

Highlights: Led a multi-year engagement and facilitation process for First Nations related to the Esquimalt Harbour ecological risk assessment and remediation work; leading TK Consultant for an international mining company providing strategic advice on community engagement; leading First Nation engagement specialist for ecological risk assessment of marine ecosystem health; negotiated joint-ventures and agreements between clients and Indigenous communities.

Education

Master of Natural Resource Management (M.R.M.) Simon Fraser University	2000
B.Sc. (High Distinction) Environmental Science, Biology, Geography University of Toronto	1994
General Arts and Science, Economics and Business Simon Fraser University	1991
CoResolve Conflict Resolution Deep Democracy (Lewis Method)	2016
Public Participation Skills for Natural Resource Managers Columbia Mountains Institute	2010
Working Effectively with Indigenous Peoples Indigenous Corporate Training Inc.	2003

Indigenous Knowledge, Engagement, Social and Environmental Assessment, Mining

Diavik Diamond Mines (2012) Inc. TK Panel - Yellowknife, NT

For over eight years, co-developed and co-facilitated the DDMI TK Panel with representatives from five Indigenous groups that are signatories to the Environmental Agreement. Collaborating with Joanne Barnaby, met several times per year on-site, and developed TK-based recommendations for closure planning, implementation tracking and reporting back to communities. Well versed in the safety culture of mining operations having completed multiple safety courses and been on-site in the processing plant, underground and throughout the property numerous times.

Nahᓇᓴ Dehé Dene Band - Nahᓇᓴ Dehé (Nahanni Butte), NT

Conducted an Indigenous Knowledge and Use Study with community members and carried out a literature review and gap analysis in relation to Norzinc's proposed Prairie Creek Mine All Season Road expansion near Nahᓇᓴ Dehé (Nahanni Butte). Assessed information gaps relevant to the requirements of the Mackenzie Valley Environmental Impact Review Board. Collaborated with Łı́ıdlı́ Kúę Dene First Nation to abide by a knowledge sharing agreement such that confidential and non-confidential versions of the DKS were prepared.

BC Hydro - Vancouver, BC

Implemented components of the Cultural Resources Mitigation Plan for the Site C Green Energy Project. Provided technical guidance and reviewed TK and TLU studies and ground-truthing for multiple Indigenous groups.

Riversdale Resources Inc. - Blairmore, AB

Conducted multi-year TK and TLU studies with five Indigenous groups in Alberta and prepared the relevant section in the environmental assessment in collaboration with Arbutus Consulting. These efforts included site-tours and ground-truthing efforts with a focus around traditional use of plants. Negotiated agreements and developed health and safety plans.

MMG Minerals Ltd. Izok Corridor Project - Kitikmeot Region, NU

Led the re-design of the TK component for the proposed Izok Corridor Project. Coordinated and carried out training, workshops and other engagement initiatives throughout Nunavut along the proposed shipping route. Prepared TK section for EA and responsible for integration throughout environmental assessment process over the course of four years.

Newmont Mining Corp. (formerly Miramar Hope Bay Ltd.) - Hope Bay, NU

Conducted multiple workshops and interviews throughout the Kitikmeot Region to document IQ from Inuit elders. Results contributed valuable information on climate change, hydrology, marine and freshwater biota and habitat, vegetation, terrestrial wildlife and habitat, cumulative effects, and both valued ecosystem components and valued socio-economic components. Results were integrated into a final Environmental Impact Statement for a proposed gold mine called the Doris North Project.

Indigenous Knowledge, Engagement, Social and Environmental Assessment, Mining

BHP Billiton Diamonds Inc. - Ekati, NT

Lead TK Consultant for the Ekati Diamond Mine, providing advice and leading TK projects, consultation, community engagement, research design, and research process. Worked with eight communities in the NT and NU.

Teck Alaska Inc. Red Dog Operations – Anchorage, AK

Provided a backgrounder based on professional experience combined with results from a literature review of best practices in engaging Indigenous peoples and their knowledge in mineral exploration in development. Presented findings to Red Dog Operations and members of the Community Relations teams across Teck operations in North America. This work was carried out in collaboration with Joanne Barnaby.

Government of the NWT - Department of Environment and Natural Resources, Yellowknife, NT

Planned, facilitated, and reported on a Great Slave Lake Research and Monitoring Program Development Workshop for the Water Management and Monitoring Division which included over 100 participants from academia, industry, governments, and both Indigenous and non-Indigenous communities. Partnering with Joanne Barnaby, this work involved providing expertise around weaving together Indigenous Knowledge and conventional science around indicators of healthy water.

KGHM International Ajax Mine Project - Kamloops, BC

Provided guidance on TK studies and consultation with First Nations related to proposed environmental assessment of a copper-gold mineral development in collaboration with Arbutus Consulting.

BC Hydro - Revelstoke, BC

Co-ordinated consultation process to solicit input on the selection of wildlife physical work sites in the Revelstoke Reach (Upper Arrow Lakes) over the course of three years. This opportunity included assembling an advisory committee and liaising with agencies, stakeholders, ENGOs, First Nations and the public. Work included meeting planning, co-ordination, reporting, and drafting agreements.

Public Works and Government Services Canada and the Department of National Defence - Esquimalt Harbour, BC

Designed and delivered a multi-year public involvement process and First Nations involvement process related to an ecological risk assessment for the Esquimalt Harbour. Over the course of two years, this extensive work included carrying out interviews; mapping past and present use; organizing and hosting open houses and community meetings; documenting, collating and integrating community concerns; and liaising with Indigenous communities plus a diversity of stakeholders and interest groups.

**Indigenous
Knowledge,
Engagement,
Social and
Environmental
Assessment,
Mining**

CH2M Hill - Tumbler Ridge, BC

Reviewed and integrated traditional use data collected from eight First Nations communities and prepared a Traditional Use Study report. The report was used in the environmental assessment process.

Yellowknives Dene First Nation - Yellowknife, NT

Collaborated to produce multiple TK studies related to a mining development on YKDFN territory.

Government of the NWT, Department of Transportation - Yellowknife, NT

Coordinated the scientific and traditional knowledge components of an environmental impact assessment of the ferry landings in the Mackenzie Delta. Liaised with community members and partnered with the Gwich'in Social and Cultural Institute to conduct an elder-youth science camp. Managed the traditional knowledge components of the study.

Sliammon First Nation - Lund, BC

Teamed with local researchers to document traditional use of sites related to a potential aggregate project. Integrated results from reviewing traditional use studies and interviews with scientific findings.

Guardians and Community- Based Monitoring: Aquatic and Fisheries

Diavik Diamond Mines Inc. (DDMI) – Communities across NT and NU

Planned, held and facilitated seven Cultural Water Quality Monitoring Workshops with members of Deninu K'ue First Nation, Kitikmeot Inuit Association, Łutsel K'e Dene First Nation, North Slave Métis Alliance, Northwest Territories Métis Nation, Tłı̄chǫ Government, and Yellowknives Dene First Nation to collaboratively develop water quality objectives and indicators that are clear, measurable and culturally relevant. DDMI requested these workshops with intervenors to the Environmental Assessment and with both Participant Agreement (PA) and non-PA communities, to discuss these criteria in relation to closure planning. DDMI then used the combined workshop outcomes to develop draft cultural use water quality criteria to submit to regulators.

Diavik Diamond Mines Inc. – Aquatic Effects Monitoring Program (AEMP), Lac de Gras, NT

Starting in 2010, DDMI engaged Natasha to overhaul the existing AEMP so that it better reflected community input. Natasha facilitated workshops and community meetings to develop indicators of aquatic health (e.g. fish, water, etc.) grounded in traditional knowledge and then collaborated with community members to implement this program in a remote field camp for one week in the summer in 2012, 2015, 2018 and 2021. Elders and youth from the following participated Kitikmeot Inuit Association, Łutsel K'e Dene First Nation, North Slave Métis Alliance, Tłı̄chǫ Government, and Yellowknives Dene First Nation. Natasha teamed with Joanne Barnaby to develop workshop and meeting materials, reports, and videos, while also balancing the regulatory needs of DDMI. From 2011 through 2022, this work was carried out in partnership with Joanne Barnaby.

Indian and Northern Affairs Canada - Yellowknife, NT

Researched, wrote and designed a public “plain-language” newsletter on water quality and quantity in the Northwest Territories that was distributed across the north. Interviewed Indigenous people and community members involved in the federal water sampling program with a view to integrate traditional knowledge and scientific data.

Guardians and Community- Based Monitoring: Wildlife

Caribou Guardians Coalition – Northwest Territories, Nunavut, Saskatchewan
Indigenous governments and Indigenous organizations developed the Caribou Guardians Coalition (CGC) which draws on the strength of regional guardians initiatives as a central hub to foster ongoing collaboration between community members and existing guardians programs. In partnership with Joanne Barnaby, co-developed, facilitated and carried out the planning and implementation phases of the CGC, supporting up to 10 Indigenous groups across two territories and one province. After five years of planning and now moving into implementation, ongoing work includes hiring CGC staff, fund-raising and carrying out workshops and on-the-land events to support barren-ground caribou recovery and habitat conservation while advancing implementation of an Indigenous guardians network.

Bathurst Caribou Advisory Committee - Northwest Territories, Nunavut, Saskatchewan

Supported Indigenous participation in the development of the Bathurst Caribou Management Plan through the Bathurst Caribou Advisory Committee (BCAC) planning, facilitating and reporting on workshops. Engaged BCAC members to consider TK and conventional science in preparing a balanced approach to managing land use and habitat protection to support Bathurst caribou conservation and recovery; and to develop specific “management actions” to implement the Bathurst Caribou Management Plan, building on the Bathurst Caribou Range Plan.

Bathurst Caribou Range Plan – Northwest Territories, Nunavut, Saskatchewan

As part of the core Project Team, led the integration of TK contributed by Indigenous members of the Working Group into the Bathurst Caribou Range Plan (BCRP). Planned, organized, facilitated and reported on TK workshops and technical workshops; led the process to interweave TK into the BCRP; and collaborated with Project Team members to co-author the BCRP.

Bathurst Caribou Management Planning Committee - Kugluktuk, NU

Managed, wrote and designed a series of community outreach posters to inform and encourage feedback to the development of the Bathurst Caribou management Planning Committee (BCMPC). This required close collaboration with all members of the BCMPC including representatives from federal and territorial governments and Indigenous agencies. These posters were distributed to every community across the range of the Bathurst herd.

Tuktu (Caribou) and Nogak (Calves) Project – Kitkmeot Region, NU

Managed a team comprised of over 40 Inuit community researchers, elders and youth on a seven-year project to document *Inuit Qaujimaqatuqangit* of caribou and climate change for written papers, conference presentations, radio shows, press releases and community meetings across the circumpolar north (Canada, Norway, Sweden). Wrote proposals, briefing notes, public announcements and annual reports.

**Guardians and
Community-
Based
Monitoring:
Wildlife**

Environmental Stewardship Initiative, Government of British Columbia – Skeena East Area, BC

In partnership with Two Worlds Consulting and Nico Ridge, collaborated with the Gitksan, Gitanyow, Office of the Wet’suwet’en, Wet’suwet’en First Nation, Witset, Hagwilget, Skin Tyee, Nee Tai Buhn, Gitwangak and Lake Babine Nation to conduct an Indigenous Knowledge Assessment: Caring for Moose and the Lax’yip/Yinta in the Skeena East Area. Brought together and braided both culturally/community derived and scientific knowledge and ways of understanding. Developed a mixed-method approach to documenting IK of moose and moose habitat such that results can be reviewed, co-developed and used by participating communities, and incorporated into future ESI deliverables and/or broader management discussions (e.g., Total Allowable Harvest, food security etc.). Project results provided key understandings to enhance moose assessment and monitoring, particularly related to implementing guardianship programs that are grounded in indicators based on IK of moose.

Baker Lake Hunters and Trappers Organization - Baker Lake, NU

Managed a collaborative Inuit Qaujimagatuqangit Study of grizzly bears in the Central Kivalliq region. Over twelve interviews with elders were conducted using various traditional knowledge interviewing techniques. Carried out capacity building sessions with community researchers.

Cross-Cultural Training, Capacity Building, Elder-Youth Camps

Toquaht Marine Stewardship Training Program - Ucluelet, BC

Working with the Toquaht First Nation, designed and delivered a 5-day marine stewardship training program that was jointly taught by Nuuchahnulth Elders and Golder biologists and cultural resource specialists. Members of the Nuuchahnulth Tribal Council Fisheries and Toquaht First Nation also delivered some lessons. The course curriculum was an equal balance of traditional teachings and western scientific teachings. Several Nuuchahnulth youth graduated from the program and were certified with continuing education units. A CD-ROM and VHS documentary was produced about this initiative.

Marine Ecosystem Health Training Program - New Aiyansh, BC

Designed and carried out a training program, accredited through the International Association for Continuing Education and Training, with a focus on marine and estuarine health in the Queen Charlotte Basin. Integrated TK into the curriculum to be ground-truthed with Elders. Haida and Nisga'a students participated. Developed a 'pay it forward' model whereby First Nations trained other First Nations in carrying out community-based research.

Ekaluktutiak Hunters and Trappers Organization – Iqaluktuutiaq, NU

Worked with community members and fisheries biologists to develop and carry out an Elder-Youth camp on *iqaluk* (Arctic char). Co-designed camp format and prepared final report for approval by participants. Co-produced video-documentary and presented research at multiple conferences. Successfully wrote all funding proposals.

Government of Nunavut, Human Resources - Cambridge Bay, NU

Prepared a seminar series to the IQ Committee integrating IQ into the workplace and conducting IQ research. This cultural competency presentation was circulated to IQ committees across the Government of Nunavut.

Tlielang Tribal Park and Campground - Haida Gwaii, BC

Worked with Haida Environmental, developing plans to carry out a screening level environmental assessment for the Tlielang Tribal Park and Campground on Haida Gwaii. This site was formerly a Haida village and remains an important Haida site for ceremonial, cultural, subsistence and recreational purposes. The EA requires us to document and integrate a substantial amount of TK to complement the western scientific data. In doing so, provided on-the-job training for six Haida youth.

Nuuchahnulth Languages Project - Ucluelet, BC

Worked with Elders and Band offices on several initiatives aimed at revitalizing the Nuuchahnulth languages across the Central Region. Supervised a graduate student who is developing an interactive languages software program. Facilitated numerous meetings and raised funds for an Elders' advisory committee to guide the project.

**Cross-Cultural
Training,
Capacity Building,
Elder-Youth
Camps**

Haida Environmental Company - Haida Gwaii, BC

Helped establish a Teaming Services Agreement with Haida Environmental to around training, capacity building and consulting projects within Haida Gwaii. Carried out TK and EA work with Old Masset Village Council for two years.

Tlielang Environmental Assessment Training Program - Haida Gwaii, BC

Prepared a ten-day course combining Elders and biologists' teachings with young adults in the context of an environmental assessment in a tribal park and campground. Students learned about environmental assessment while carrying out a Phase I screening environmental assessment under CEAA. In addition, students developed the beginnings of a trail and interpretive sign program. Students received continuing education units for participating in the coursework and on-the-job training to carry out field work for the site.

Marine Ecosystem Health Training Program - New Aiyansh, BC

Designed and carried out a training program, accredited through the International Association for Continuing Education and Training, with a focus on marine and estuarine health in the Queen Charlotte Basin. Integrated local TK into the curriculum and to ground truth it with local Elders. Haida and Nisga'a students participated in the course. Developed a 'pay it forward' model whereby First Nations trained other First Nations in carrying out community-based research.

Capital Regional District Parks - Victoria, BC

Prepared a Cultural Context Statement for a small park on the Gulf Islands. This work required integrating knowledge shared by First Nations with other archival and historical information about land use.

University of Colorado at Boulder - Hiukkittaak River, NU

As part of a team of academics and Inuit elders, lectured and supervised Inuit and non-Inuit students during a month-long ecology course held while kayaking an Arctic river. Formed partnerships with Inuit communities and fostered meaningful input from locals on course direction, outcome and reporting of research results to communities.

Research, Literature Review

Government of the NWT – Department of Infrastructure, Yellowknife, NT
Reviewed TK frameworks for NWT-AB Bilateral Water Management Agreement decision making. In collaboration with Joanne Barnaby, compiled TK methodologies (e.g. frameworks, best practices, protocols, policies, and guidelines). Reviewed relevant methodologies, including their key commonalities and differences. Assessed these methodologies' use in informing the development of a new framework for the inclusion of TK in bilateral water management decision making. Provided recommendations for the inclusion of TK in the Alberta-NWT Bilateral Water Management Agreement including policy, methodology, decision making guidelines, and evaluation.

Kugluktuk Hunters and Trappers Organization - Kugluktuk, NU

Examined mineral development effects on barren-ground caribou from the perspectives of Inuit Qaujimagatuqangit and western scientific knowledge. Work included training local researchers, carrying out IQ interviews and integrating results with conventional scientific data and models.

Nunavut Wildlife Management Board – Iqaluit, NU

Led the review of scientific and IQ literature related to barren-ground caribou and presented recommendations related to caribou protection measures to a multi-stakeholder audience.

Government of the Northwest Territories - Yellowknife, NT

Reviewed readily available sources of traditional and community knowledge to prepare a report on the status of barrenland caribou to assist in recommendations regarding the listing of species at risk.

Diavik Diamond Mines Inc. - Yellowknife, NT

Carried out extensive literature review and prepared annotated bibliography of TK sources related to environmental assessment and mining operations in the Canadian north, with some focus on the circumpolar north. Provided recommendations on how to integrate TK into mining operations from operations through post-closure. Reviewed policies on the collection and documentation of TK sources. Review included over 150 sources entered online through bibliographic software/database.

Natural Resources Canada – Ottawa, ON

Partnering with Navius Research as subject matter expert for a climate change adaptation report, examined best practices for natural resource development in northern and circumpolar regions.

Teck Alaska Inc. Red Dog Operations – Anchorage, AK

Researched and detailed Indigenous Knowledge of environmental change based on a literature review of northern case studies focusing on water and permafrost. This work was carried out in partnership with Joanne Barnaby.

Research, Literature Review

Newmont Mining Corp. (formerly Miramar Hope Bay Ltd.) - Hope Bay, NU
Conducted a review of Inuit Qaujimajatuqangit (traditional knowledge) available in both published and grey literature relevant to the proposed gold development in Hope Bay, Nunavut. This work included a gap analysis and recommendations on how future work could best serve to address Inuit Qaujimajatuqangit in the context of mineral exploration and development.