

2022 VIRTUAL MACKENZIE VALLEY RESOURCE MANAGEMENT ACT (MVRMA) WORKSHOP SERIES: CLIMATE CHANGE

Information Package

December 15 & 16, 2022
9:00 AM to 12:00 PM MST



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ZOOM MEETING INFORMATION

Signing into Zoom:

We will be using Zoom for the workshop. If you do not have the Zoom desktop client downloaded or the Zoom app, you can click on the web client. You will need to provide a name and email address to join.

If you require further Zoom support, see here: <https://support.zoom.us/hc/en-us/articles/214629443>.

Here is the link for both days:

Please sign in **10-15 minutes in advance** to ensure it is working and for a smooth start at 9:00 AM MT.

Date	Thursday, December 15 and Friday, December 16
Time	9am -12pm (MDT) each day
Link (same for each day)	https://us06web.zoom.us/j/81360255454?pwd=WHFRemp3R2M4VkU3UFJWeEVyZGtKdz09 Meeting ID: 813 6025 5454 Passcode: 242146 1 855 703 8985 Canada Toll-free

*****Zoom links for Day 1 and Day 2 are the same. Ensure to click on the above link for both days.***

Platform & Accessibility

We will use Zoom as the technology platform. Speakers will have video, but participants will not be required to share their video and audio. Please advise if you have any concerns or specific accommodations to assist with your participation.



PARTICIPANT AGENDA

2022 Virtual *Mackenzie Valley Resource Management Act (MVRMA)* Workshop Series

BACKGROUND

The MVRMA Workshop Planning Committee (representatives of the Land and Water Boards of the Mackenzie Valley, the Review Board, and government departments and agencies involved in the co-management system) is pleased to host a series of four virtual workshops in 2022 related to the *Mackenzie Valley Resource Management Act*. The topics of the workshops were selected based on the results of a Fall 2021 survey given to participants of the MVRMA co-management system.

The first workshop on March 30 and 31, 2022, introduced the co-management and integrated system of land and water management established through the *Mackenzie Valley Resource Management Act* (MVRMA). The second workshop on June 8 and 9, 2022, focused on the closure and reclamation process in the Mackenzie Valley and shared knowledge, ideas, and experiences on existing co-management processes regarding closure and reclamation. The third session of the workshop series was held on September 28 and 29, 2022, on the topic of engagement and consultation in the context of the MVRMA. Full reports for all workshops are available on the LWB websites' outreach page [here](#).

The fourth and final instalment of the workshop series will be held on **December 15 and 16, 2022**, on the topic of climate change.

WORKSHOP GOALS

The purpose of the workshop series is to help familiarize participants with the co-management and integrated system of land and water management established through the MVRMA.

The goals of the December workshop are to:

- Share information about how:
 - the Mackenzie Valley regulatory regime is affected by climate change and how climate change is currently considered in resource management decision-making processes
 - climate change is impacting the Mackenzie Valley
 - industry is innovating to decarbonize and adapt to climate change
- Discuss how Indigenous science is weaved with western science to inform and enhance decision-making related to climate change
- Discuss opportunities for improving consideration of climate change in the Mackenzie Valley regulatory regime, including how climate change is integrated into Board and government decision-making

DETAILS FOR DECEMBER WORKSHOP

Date	Thursday, December 15 and Friday, December 16
Time	9am -12pm (MDT) each day
Link (same for each day)	https://us06web.zoom.us/j/81360255454?pwd=WHFRemp3R2M4VkU3UFJWeEVyZGtKdz09 Meeting ID: 813 6025 5454 Passcode: 242146 1 855 703 8985 Canada Toll-free

PLATFORM & ACCESSIBILITY

We will use Zoom as the technology platform. **The Zoom link is the same for each of the two days.** Speakers will have video, but participants will not be required to share their video and audio. Please advise if you have any concerns or specific accommodations to assist with your participation.

CONTACT

If you have any questions regarding this upcoming workshop, please contact [Kate Mansfield](#), Manager Environmental Assessment Policy and Planning at the Mackenzie Valley Environmental Impact Review Board.

Day 1: Thursday, December 15, 2022 (9am – 12pm MST)

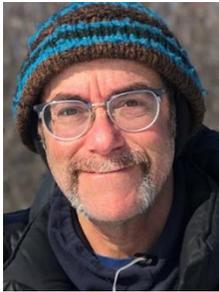
8:45 - 9:00	Virtual check-in We ask that you sign in to Zoom in advance to ensure a prompt start at 9 am
9:00 – 9:05	Opening Prayer
9:05 – 9:15	Opening Remarks and Workshop Overview Overview of the workshop objectives and agenda.
9:15 - 10:40	Panel: Climate Change in MVRMA Decision Making Processes Cory Doll (GNWT-ENR), Eva Walker (Environment and Climate Change Canada), Alan Ehrlich (Mackenzie Valley Environmental Impact Review Board), Patty Ewaschuk (Ewaschuk Consulting) A panel representing MVRMA Boards, GNWT and the Government of Canada discusses climate change as it relates to the decision-making processes in the Mackenzie Valley. The panel will be followed by a Q&A session and online engagement questions.
10:40 - 10:55	Break
10:55 - 11:35	Keynote Speaker Presentation – Dr. Chris Burn (Carleton University) A presentation on climate change, permafrost and impact assessment in the Mackenzie Valley and Western Arctic. The presentation will be followed by a Q&A session.
11:35 – 11:55	Strategic Assessment of Climate Change Matthew Zeppetelli (Environment and Climate Change Canada) Environment and Climate Change Canada (ECCC) representative Matthew Zeppetelli will provide a summary of the Strategic Assessment of Climate Change. The presentation will be followed by a Q&A session.
11:55 – 12:00	Closing and Wrap-Up Day 1

Day 2: Friday, December 16, 2022 (9am – 12pm MST)

8:45 - 9:00	Virtual check-in We ask that you sign in to Zoom in advance to ensure a proper start at 9am
9:00 – 9:10	Welcome Back
9:10 – 9:50	Industry Innovations Marc Lincoln (Debeers Canada Inc) and David Connelly (Cheetah Resources) will highlight the actions industry is taking to mitigate and adapt to climate change, and how these actions relate to the MVRMA. The presentation will be followed by a Q&A session.
9:50 – 10:15	Indigenous Science Dieter Cazon (Łíídlıı Kúé/Fort Simpson) A presentation on weaving Indigenous science with western science to inform decision-making related to climate change. The presentation will be followed by a Q&A session.
10:15 - 10:30	Break
10:30 - 11:45	Panel: Emerging Leaders and Elders Elder Edward Cholo (Łíídlıı Kúé/Fort Simpson), Dieter Cazon (Łíídlıı Kúé/Fort Simpson), Monique Chapman (Sqòmba k'è/Yellowknife), Gloria Enzoé (Łutsel k'e), Chase Lockhart (Łutsel k'e) A panel of Indigenous Elders and youth will share their perspectives on what support is needed from decision-makers in the face of climate change impacts. The panel will also discuss what we should be striving for in the Mackenzie Valley as we adapt to a future with climate change.
11:45 – 11:50	Closing Remarks and Wrap Up the Workshop Series
11:50 – 12:00	Closing Prayer with the YKDFN Drummers

DAY 1 SPEAKER BIOS

ALAN EHRlich PANELIST



Alan Ehrlich has 26 years of experience conducting and reviewing environmental impact assessments, in northern Canada and abroad. He is the Manager of Environmental Impact Assessment for the Mackenzie Valley Environmental Impact Review Board. Alan has extensive experience dealing directly with high profile, politically sensitive environmental assessments involving Indigenous issues. He is also internationally known for his award-winning writing, speaking, and thinking about environmental assessment.

EVA WALKER PANELIST



Eva Walker (BSc., MSc) is currently a Senior Environmental Assessment Officer, with the Environmental Protection Branch of Environment Climate Change Canada, based in Yellowknife, NT. In her five years with the federal government, Eva also worked for Crown Indigenous Relations and Northern Affairs Canada (CIRNAC) in their Contaminates and Remediation Division where climate effects were considered in NWT remediation projects, as well as part of the Federal Contaminated Sites Action Plan. Prior to her life as a public servant, she worked as an Environmental Consultant and aquatic ecologist for 11 years. Eva's work focuses primarily on environmental assessment and fulfilling ECCC's mandate with regards to Water and Air quality, Species at risk, migratory birds and most significantly for this panel Climate Change. Eva comes to the panel supported by the knowledge of ECCC's climate experts of the Energy and Transportation Directorate and Climate Research Directorate.

CORY DOLL PANELIST



Cory has been the Manager of Climate Change and Air Quality for the Government of the Northwest Territories (NWT) since 2020. His team within the Department of Environment and Natural Resources oversees the implementation of the NWT Climate Change Strategic Framework, works to understand the significant impacts of the warming currently being experienced in the NWT, while also advancing adaptation planning and actions. This work involves maintaining structures that support working with others both internally and externally to the territorial government inclusive of Indigenous governments and organizations. Cory is currently the co-chair of the NWT's Climate Change Council and serves a board member for the Arctic Energy Alliance. Cory has worked for provincial and territorial governments in Canada for over 22 years with experience in climate change, land and natural resource partnerships and engagement, renewable energy, Indigenous engagement, and tourism. Previously, Cory led a provincial scale climate change 'behaviour change' program called 'One Simple Act' and managed an engagement group supporting a provincial transition from coal to renewables. Cory took on the management of Alberta's Indigenous Climate Leadership Initiative, including coordination of the award-winning Indigenous Electricity Technical Working Group, advancing Indigenous participation and ownership in large-scale renewable projects. Cory currently lives in Yellowknife, Northwest Territories, overlooking Great Slave Lake.

PATTY EWASCHUK PANELIST



Patty Ewaschuk is a geological environmental engineer with 25 years' experience in American and Canadian environmental regulatory systems. She worked for the Wek'èezhii Land and Water Board for 15 years advising the Board on technical and regulatory matters. Prior to that she worked for an American environmental consulting firm serving industry and the U.S Environmental Protection Agency for 10 years. She is an engineer registered with NAPEG and specializes in regulatory and technical issues related to mining, closure planning, dams, water quality, waste rock and tailings management, financial security deposits, and more.

DR. CHRIS BURN KEYNOTE



Chris Burn is Chancellor's Professor of Geography at Carleton University in Ottawa. He has been studying the permafrost environment in Yukon and the western Arctic since 1982. His research has focused on how permafrost terrain responds to disturbances, such as changes in surface conditions and in climate. Between 1998 and 2013 he participated in the review of several projects including the Diavik Mine, MGP, and ITH. Several of his former graduate students work for the Northwest Territories Geological Survey, the Aurora Research Institute, and other branches of GNWT. Earlier this year he convened the North Yukon Permafrost Conference, jointly organized by the Canadian Permafrost Association and the three North Yukon First Nations. In 2018 he was awarded the Canadian Polar Medal and last month the Martin Bergmann Medal for Arctic Leadership and Science. He is currently President of the International Permafrost Association.

MATTHEW ZEPPELLI SPEAKER



Matthew Zeppetelli is the Unit Head (Acting) of the Strategic Assessment of Climate Change Team at Environment and Climate Change Canada (ECCC) since February 2022. He has been with the federal public service since 2017 and served in several capacities with ECCC's Environmental Protection Branch and at Natural Resources Canada. Prior to joining the public service, Matthew was a technical advisor with AGAT Labs in Calgary, providing expertise to clients in the upstream oil and gas sector on extraction techniques at a lab-scale demonstration. He has a Bachelor of Science in Chemical Engineering from Queen's University and a Master of Engineering in Engineering Management from the University of Ottawa and holds a Project Management Professional certification. Matthew lives in Ottawa with his wife and two cats.

DAY 2 SPEAKER BIOS

MARC LINCOLN SPEAKER



Marc Lincoln currently leads the Diamond FutureSmart™ initiative in De Beers, which aims at changing the mining paradigm, to a new operating model which seeks to reduce waste through precision mining, creates a more sustainable mine environment by reducing water consumption and embracing renewable energy, leveraging technology to create a connected mine, and by enhancing the work environment more by increasing gender diversity and integration in our host communities.

Background

- 34 years in the mining industry
- Mechanical engineer and computer science qualifications
- Extensive operations and project management experience in Anglo American and De Beers; involved with major capital projects globally in South & North America, and Africa (Namibia, Zambia, Mali, and South Africa).
- Diverse mining commodity experience which includes copper, coal, zinc, diamonds, gold, and nickel
- Passionate about making mining more sustainable

DAVID CONNELLY SPEAKER



David Connelly, CD, MBA, B.Comm, has more than 45 years of senior project finance, strategic planning, project development, logistics solutions and community, Indigenous and government relations experience, initially internationally and for the last 27 years based in Northern Canada. David is the owner of Ile Royale Enterprises Ltd., chair, board member, and strategic planner and engagement consultant to Aboriginal, natural resource, and cleantech businesses. As an investor and advocate for responsible economic development, David led turnarounds and structured many successful strategic alliances. He

helped pioneer groundbreaking alliances and impact benefits agreements and is an advocate of Indigenous equity participation. Most recently, as Cheetah Resources Corp. and Vital Metals' Vice President of Strategy and Corporate Affairs, he was part of the team that developed the Nechalacho Rare Earth Mine, Canada's first rare earth mine. He serves / has served on over two dozen public and private companies, Indigenous development corporations, not-for-profit, quasi-judicial and government boards. The NWT Government appointed him a founding member of the Yellowknife Airport Economic Advisory Council in 2017 and the NWT Business Development Investment Corporation in July 2019. He serves on the Mayor of Yellowknife's Economic Development Task Force and the City's University Post-Secondary Advisory Committee, and Quantiam Technology Inc. Board. As a Naval Reserve Officer, he advised the Commanders of Joint Task Force North on Indigenous and Northern and Indigenous affairs for 26 years. As President and CEO from 1992-1997, he led the turnaround of Canada's largest Indigenous development corporation.

DIETER CAZON SPEAKER/PANELIST



Dieter Cazon is a member of the Łíídlíı́ Kúé First Nation and Manager of Lands and Resources for the Łíídlíı́ Kúé. We continually work with our Members and Leaders to represent and assert Łíídlíı́ Kúé First Nation interests and concerns in regard to the changing world, and our continuing commitment to take care of the land so the land will take care of us. Under direction of Łíídlíı́ Kúé First Nation Membership and leaders, we work to establish and maintain long term relationships with various organizations to help understand the changes to the world around us. The Łíídlíı́ Kúé First Nation's work to facilitate the transference of the Scotty Creek Research Station to the Łíídlíı́ Kúé has helped to create one of the first Aboriginally led Research Stations. This milestone speaks to the interest of the Łíídlíı́ Kúé First Nation to work collaboratively with researchers to further our understanding to the effects of Climate Change and permafrost thaw. Information is shared between Traditional Knowledge and Western Science to help both sides learn and understand why taking care of the land around us is so important. Collaborations with the Scotty Creek Research Station has helped identify and engage communities with a Dehcho-wide initiative, DCoP (Dehcho Collaborative on Permafrost) whose overall objective is to generate a fusion of leading-edge scientific and Indigenous knowledge on permafrost, and to use it as a basis to co-develop new predictive decision support tools and innovative risk management strategies to inventory and manage permafrost and adapt to permafrost thaw. As is with the effects of climate change, we are seeing the changes to the lands around us, changes to animal behaviour, major flooding of several communities over the last couple of years, forest fires changing the land around us, and the losses of the Scotty Creek Research Station to such a fire in October of this year. The importance of this facility cannot be underestimated, as the Łíídlíı́ Kúé First Nation is working on rebuilding to facilitate the continued collaboration of Western Science and Traditional Dene Knowledge.

ELDER EDWARD CHOLO PANELIST



Edward Cholo, an elder and trapper from Łíídlíı́ Kúé First Nation, has spent his whole life working on and around the Mackenzie River, and for the last 16 years, as a Guardian and Monitor for the Łíídlíı́ Kúé through the AAROM (Aboriginal Aquatic Resource and Oceans Management) Program. He has trained to monitor and describe the health of the lands, the environment, and animals, which have undergone rapid changes in the Dehcho region of the N.W.T. Edward continues to contribute and share his experiences of over 50 years of land-based knowledge to help facilitate the collaborative work of better understanding the environment around us. Accessing traditional trails and his trap line has become difficult because of widespread permafrost thaw and land cover change due to the effects of Climate Change. "I've seen big changes. Warm weather in the wintertime, hardly any snow. Permafrost is melting so there's hardly any more water in the bush. It just goes through the land."

MONIQUE CHAPMAN PANELIST



Monique Chapman was born and raised in Yellowknife, Northwest Territories, and is a member of the Fond du Lac Denesuline First Nation. She graduated from Dalhousie University with a Bachelor of Science in Marine Biology in 2018. Upon returning to the North, she worked at the GNWT in the Climate Change and Air Quality Unit, at Fisheries and Oceans Canada, and has since returned to the GNWT in the Waste Reduction and Management Section. Next year, Monique plans on returning to school for a Masters in Science Communications. Monique is passionate about youth engagement and communications, and recently attended COP27 as the Indigenous Youth delegate for the Northwest Territories.

GLORIA ENZOE PANELIST



Gloria Enzoe grew up hearing her mother talk about the love for the land and the need to speak on behalf of the water, air, trees, and animals. When the Elders in her community of Lutsel K'e in the Northwest Territories began calling for a local program to manage traditional territory and get youth out on the land, Gloria knew it was a chance to honour her mother's teachings. In 2008, she helped launch the Ni hat'ni Dene, an Indigenous Guardians program. Now these guardians care for millions of hectares of vibrant boreal forest and vast stretches of Great Slave Lake, one of the largest lakes in the world. Recently she's been learning about precious stones and is beginning to incorporate them into her jewelry as well. Turquoise stones, for example, speak to her. "Turquoise is loved by the Navajo, and we have a connection to them. The stones can be healing and give good luck." The idea of connection runs through all of Gloria's pieces and informs her way of working. "When I sell a piece, I connect with the customer. I let them know that this is made out of my home. It comes from a sacred animal that is able to feed us and is beautiful. My parents always pray over a meal – for health, for families, for themselves. They rejoice and pray for a good future. When the jewelry is used and worn, those good thoughts become part of it."

CHASE LOCKHART PANELIST



Chase is the youngest of the current Ni Hat'ni Dene crew, but he has big ambitions. He wants to continue to hone his skills as a land user and pass on what he knows to the younger generations; the guardians are often called up to teach traditional skills as part of youth on-the-land programs. He also wants to learn his language, a goal that is perhaps best achieved on the land, the source of Dënesųłíné. In addition to the opportunity to spend time on the land, Chase enjoys the variety of the role: "It's always different what we are doing," he explains. "I like getting new ideas." Travelling with others beyond his immediate family has been an important part of Chase's education over the last year: "Everyone has their own skills, style, techniques, and teachings. I'm learning from the community."