

A scenic landscape of a lake with rocky shores and evergreen trees under a cloudy sky. The water is calm, reflecting the sky and the surrounding greenery. The sky is filled with soft, white clouds, and the overall atmosphere is serene and natural.

19 MACKENZIE RIVER BASIN BOARD *ANNUAL REPORT* 2019-20 20



Photo Credit: Zizhao (Finn) Wang
Hay River

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Photo Credit: Shutterstock
Athabasca River, Jasper National Park, Alberta

LETTER OF TRANSMITTAL

June 2021

The Honourable Jonathan Wilkinson
Minister of Environment and Climate Change
Minister Responsible for Parks Canada Agency
Government of Canada
Ottawa, Ontario

The Honourable Carolyn Bennett
Minister of Crown-Indigenous Relations
Government of Canada
Ottawa, Ontario

The Honourable Dan Vandal
Minister of Northern Affairs
Government of Canada
Ottawa, Ontario

The Honourable Fred Bradshaw
Minister Responsible for the Water Security Agency
Government of the Province of Saskatchewan
Regina, Saskatchewan

The Honourable Jason Nixon
Minister of Environment and Parks
Government of the Province of Alberta
Edmonton, Alberta

The Honourable George Heyman
Minister of Environment and Climate Change Strategy
Government of the Province of British Columbia
Victoria, British Columbia

The Honourable Shane Thompson
Minister of Environment and Natural Resources
Government of the Northwest Territories
Yellowknife, Northwest Territories

The Honourable Nils Clarke
Minister of Environment
Yukon Legislative Assembly
Whitehorse, Yukon

Honourable Ministers:

On behalf of the members of the Mackenzie River Basin Board (MRBB), it is my pleasure to submit the Annual Report of the MRBB for the Fiscal Year 2019-2020.

The report summarizes the work of the MRBB and its committees, and provides an update on the status of negotiation and implementation of Bilateral Water Management Agreements between individual provinces and territories. Notable highlights from the period covered in this report include:

- a change in membership as Parks Canada Agency replaced Health Canada as the third federal member;
- the MRBB signed a two-year contract for the development of the State of Aquatic Ecosystem report for the Mackenzie River Basin;
- the MRBB completed a Strategic and Operational review;
- water quality task team members completed the ground work for a 5-year plan to support the development of a consistent approach to water quality assessment.

Should you have any questions about the report, the MRBB, or the work of its committees, please do not hesitate to contact me at nadine.stiller2@canada.ca.

Sincerely,



Nadine Stiller
Chair, Mackenzie River Basin Board

MESSAGE FROM THE CHAIR

This Report to Ministers describes the activities of the Mackenzie River Basin Board (MRBB) in the fiscal year of 2019-2020. Federal government membership changed in 2019-20 as Health Canada stepped away from the MRBB, and Parks Canada Agency agreed to sit as the third federal member. We would like to thank Health Canada for their contribution to the MRBB over the years, and welcome our colleagues from Parks Canada Agency.

As of April 2020, Bilateral Water Management Agreements (BWMA) are complete between:

- British Columbia and the Northwest Territories,
- Alberta and the Northwest Territories,
- the Northwest Territories and Yukon, and
- British Columbia and Yukon.

The MRBB is supporting the implementation of the four completed BWMA within the basin, and continues to monitor the progress of negotiations of the remaining BWMA.

The MRBB completed a Strategic and Operational review in 2019-20. The primary objectives of the review were:

1. To assess the MRBB's performance of its Duties in accordance with Part D – Administration, and Section 2- Duties of the Board of the Mackenzie River Basin Transboundary Waters Master Agreement.
2. To recognize and document the main accomplishments and strengths of the MRBB's current planning and operational processes and activities.
3. To identify and document gaps and limitations in the MRBB's overall governance structure and application.
4. To provide a plan, with clear recommendations for the MRBB, on how best to address the most significant factors constraining its performance as a Board while continuing to capitalize on and enhance its existing strengths.

The MRBB is developing a response to the recommendations in the report and will initiate a Strategic Planning exercise in the fall of 2020.

The Traditional Knowledge and Strengthening Partnerships (TKSP) Steering Committee and the State of the Aquatic Ecosystem Report (SOAER) Steering Committee continued to work collaboratively as a joint committee to develop

Phase 1 of the SOAER. The initial phase of the online report will summarize science and Indigenous Knowledge for four indicators at the basin and sub-basin levels and sets the foundation for assessment of additional indicators and place-based knowledge. The joint committee met seven times from April 1, 2019-March 31, 2020 and have continued their partnership into 2020-2021.

The TKSP Steering Committee's partnership with the Tracking Change project continues. The project, led by the University of Alberta, is nearing the end of its funding cycle and committee members have been providing input toward the development of a new research funding proposal.

The Water Quality task team members completed the groundwork for a five-year work plan to support the development of a consistent approach to water quality assessment across the Mackenzie River Basin. Team members have identified and shared technical tools and best practises, and intend to have an approved work plan in 2020-21.

Looking forward to 2020-21 the MRBB anticipates progress on the negotiations of the remaining bilateral management agreements. The MRBB intends to have an updated Strategic Plan that includes a plan on how to address or implement recommendations from the Strategic and Operational Review. Plans are to have Phase 1 of the SOAER publically available, and the joint TKSP and SOAER committee will be gathering feedback and drafting a vision for Phase 2 of the SOAER.



Nadine Stiller
Chair, Mackenzie River Basin Board



Photo Credit: Zizhao (Finn) Wang
Alexandra Falls, Hay River



Photo Credit: Shutterstock
Liard River on the Alaska Highway, British Columbia

INTRODUCTION

This report summarizes the activities of the Mackenzie River Basin Board (MRBB), its Secretariat and Committees for the Fiscal Year from April 1, 2019 to March 31, 2020. Submission of this report fulfills one of the duties of the MRBB as outlined in the Mackenzie River Basin Transboundary Waters Master Agreement.

The following figure shows the Mackenzie River Basin.



Figure 1. The Mackenzie River Basin



Photo Credit: Zizhao (Finn) Wang
Great Slave Lake

THE MACKENZIE RIVER BASIN

TRANSBOUNDARY WATERS MASTER AGREEMENT

Background

The governments of Canada, British Columbia, Alberta, Saskatchewan, Northwest Territories and Yukon (the Parties) signed the Mackenzie River Basin Transboundary Waters Master Agreement (the Master Agreement) to address the fundamental issue of water management cooperation. The Master Agreement came into effect on July 24, 1997. The purpose of the Master Agreement is to establish common principles for the cooperative management of the Aquatic Ecosystem of the Mackenzie River Basin (Figure 1), to establish an administrative mechanism to facilitate the application of the principles set forth in the Master Agreement, and to make provisions for Bilateral Water Management Agreements that address inter-jurisdictional water quality, quantity and related issues.

The Master Agreement Principles

Under the Master Agreement, Part C, the Parties are committed to the following:

- Managing the Water Resources¹ in a manner consistent with the maintenance of the Ecological Integrity² of the Aquatic Ecosystem³;
- Managing the use of the Water Resources in a sustainable manner for present and future generations;
- The right of each to use or manage the use of Water Resources within its jurisdiction provided such use does not unreasonably harm the Ecological Integrity of the Aquatic Ecosystem in any other jurisdiction;
- Providing for early and effective consultation, notification and sharing of information on developments and activities that might affect the Ecological Integrity of the Aquatic Ecosystem in another jurisdiction; and
- Resolving issues in a cooperative and harmonious manner.

¹ "Water Resources" is defined in the Mackenzie River Basin Transboundary Waters Master Agreement as the Mackenzie River and any order tributary to the Mackenzie River including deltas, tributaries of deltas, wetlands and lakes which contribute water to the Mackenzie River, whether in a liquid or frozen state, excluding groundwater except where the Parties to a Bilateral Water Master Agreement agree to its inclusion.

² "Ecological Integrity" is defined in the Mackenzie River Basin Transboundary Waters Master Agreement as the conditions that the Parties to any of the Bilateral Water Management Agreements determine are necessary to maintain a healthy and diverse Aquatic Ecosystem.

³ "Aquatic Ecosystem" is defined in the Mackenzie River Basin Transboundary Waters Master Agreement as the interacting components of air, land and water and living organisms, including humans that relate to the Water Resources of the Mackenzie River Basin.

THE MACKENZIE RIVER BASIN BOARD

Structure and Operations

The Mackenzie River Basin Board (MRBB) was established under Part D Section 1a of the Master Agreement. The MRBB is assigned to administer the terms of the Master Agreement and to serve as a forum where all participating governments can cooperate in an effort to maintain the ecological integrity of the Basin's aquatic ecosystem.

The MRBB has no more than thirteen members. Up to three members represent the Government of Canada and two federal members are selected from signatory departments (Crown-Indigenous Relations and Northern Affairs Canada, and Environment and Climate Change Canada). In 2019-20, Health Canada stepped down as the third Government of Canada member. Parks Canada Agency agreed to sit as the third Government of Canada member. Two members represent each province and territory (Alberta, British Columbia, Saskatchewan, Yukon, and Northwest Territories). An Indigenous Member is appointed to fill one of the two positions from each of the provincial and territorial jurisdictions to contribute an Indigenous perspective to the work of the MRBB. The second member from each province and territory is a government representative. This inter-jurisdictional partnership, the presence of members representing Indigenous interests alongside representatives of the governments, and the commitment by all parties to maintain the ecological integrity of the aquatic ecosystem makes the MRBB unique.

Part D Section 2d of the Master Agreement also establishes a staff arm for the MRBB called the Secretariat. The Secretariat is tasked to carry out the programs, administrative duties, and investigations required by the Board. Currently, the MRBB Secretariat consists of one staff member housed within Environment and Climate Change Canada.

The MRBB is not a regulatory or licensing board, and has no legal or policy basis to regulate resource use in any of the jurisdictions. However, the Board may inform regulatory decisions made in the various jurisdictions by providing factual material, such as the State of the Aquatic Ecosystem Report (SOAER), or by participating in and influencing pre- or post-regulatory processes, such as planning, regional or cumulative environmental impact assessment processes.

The MRBB conducts business, shares information, and provides guidance to committees and the Secretariat through a series of formal meetings. MRBB meetings typically include updates from the Board Committees and the Secretariat. Government Board Members typically submit Member agency reports once a year. These reports provide a mechanism for sharing water-related information amongst the jurisdictions and with Indigenous Groups, and can support prior notification commitments. Indigenous Members share information and concerns from their jurisdictions.

The Environment and Climate Change Canada Board Member has chaired MRBB meetings by consensus of the other parties since the Board's inception.

The MRBB met face to face twice in the 2019-2020 fiscal year: once in Yellowknife, Northwest Territories, and once in Edmonton, Alberta. The MRBB conducted its remaining business through teleconferences and electronic means.

Strategic Review

Part D 2k of the Master Agreement directs the MRBB to review the Master Agreement at least once every three years and propose Amendments to the Parties. In 2019-20, the MRBB directed that an independent

strategic and operational review of the Board be undertaken to ensure that the Board is fulfilling its duties in an effective and efficient manner. The Board held a workshop in December 2019 to review and discuss draft report recommendations. The Secretariat received the report entitled “Strategic and Operational Review of the Mackenzie River Basin Board” on March 31, 2020. The Board will finalize a response to the recommendations and prioritize actions in 2020-21.

Finances

Under the Master Agreement, Environment and Climate Change Canada is responsible for managing the expenditures of the Board, the costs of which are shared equally by the signatories to the agreement. MRBB costs include staffing and operation of the Secretariat office, ensuring effective Indigenous participation by paying MRBB-related expenses, and tendering and managing contracts that progress MRBB business when required. Please refer to Appendix I for the 2019-20 financial report.

Information Sharing

At the 2019 spring meeting, MRBB Members shared information on activities and issues within each jurisdiction of the Basin, as per prior notification provisions within the Master Agreement. Written agency reports from government agencies were presented at the fall meeting. MRBB Committees and the Secretariat briefed the MRBB on their activities at the spring and fall face-to-face meetings. A summary of activity for each committee is included in this report.



Photo Credit: Zizhao (Finn) Wang
Great Slave Lake

STATUS OF *BILATERAL WATER MANAGEMENT AGREEMENTS*

The Master Agreement makes provisions for the provinces and territories to complete Bilateral Water Management Agreements (BWMA). The BWMA's guide how the jurisdictions work together to manage risks to water quality, quantity, and aquatic ecosystem health, and facilitate joint learning that informs bilateral water management in the Mackenzie River Basin. The completion and implementation of BWMA's is one of the most effective ways to protect the aquatic ecosystem of the Mackenzie River Basin.

BWMA's outline commitments at key transboundary crossing points. Many of the core elements of BWMA's are common to all the agreements; however, each agreement can also include provisions that are unique to the circumstances of a transboundary region. Water management areas addressed include Surface Water Quality, Surface Water Quantity, Groundwater, and Aquatic Ecosystem Health.

Status

British Columbia/Northwest Territories:

British Columbia and the Northwest Territories completed their BWMA in October 2015.

- British Columbia and Northwest Territories have established a Bilateral Management Committee (BMC), which includes territorial and provincial government members and Indigenous members, to administer the Agreement. The BMC also establishes technical committees to support implementation of the Agreement. The BMC has completed a Terms of Reference to support administration by the BMC and are discussing work plan priorities.

- The British Columbia/Northwest Territories BWMA applies to all transboundary waters shared directly between British Columbia and Northwest Territories in the Mackenzie River Basin, primarily the Liard River Watershed.

Alberta/Northwest Territories:

Alberta and Northwest Territories completed their BWMA in March 2015.

- Alberta and Northwest Territories are implementing the terms of the BWMA. The Parties have established a Bilateral Management Committee to administer the agreement, as well as technical committees to support the agreement.
- The Alberta/Northwest Territories BWMA applies to all transboundary waters shared by Northwest Territories and Alberta in the Mackenzie River Basin.

Northwest Territories/Yukon:

Northwest Territories and Yukon completed a BWMA in 2002. This agreement applies to the Peel River and Mackenzie Delta Watersheds.

- Northwest Territories and Yukon governments are currently in the process of updating the BWMA for the Peel River and Mackenzie Delta in order to align it with modern BWMA's.
- Northwest Territories and Yukon governments are currently in the process of establishing a BWMA for 64km² of the Liard basin, which is not covered by either of the British Columbia/Yukon or British Columbia/Northwest Territories BWMA's. This Agreement will seek to mirror the Agreements currently in place.

British Columbia/Yukon:

British Columbia and Yukon signed a BWMA for the Liard watershed in March 2017.

- The British Columbia/Yukon BWMA applies to all transboundary waters shared between British Columbia and Yukon in the Mackenzie River Basin, primarily the Liard River Watershed.
- British Columbia and Yukon are focusing on implementing the BWMA. A Bilateral Management Committee (BMC) with Indigenous and non-Indigenous Members has been established to administer the agreement. The BMC met four times in the 2019/20 fiscal year. A Terms of Reference has been finalized, and the BMC is currently working to update the methodology used for classification.

British Columbia/Alberta:

The British Columbia/Alberta BWMA negotiations are ongoing.

- Alberta and British Columbia have negotiated an agreement in principal. Engagement activities on the agreement will be planned.
- The British Columbia/Alberta BWMA applies to all transboundary waters shared between British Columbia and Alberta in the Mackenzie River Basin.

Alberta/Saskatchewan:

The Alberta/Saskatchewan BWMA negotiations are ongoing.

- Alberta and Saskatchewan have shared information, discussed their respective interests, and discussed the components for each section of the BWMA. Technical teams are reviewing the draft appendices.

- The Alberta/Saskatchewan BWMA will apply to all transboundary waters shared by Saskatchewan and Alberta in the Mackenzie River Basin.

Saskatchewan/Northwest Territories:

The Saskatchewan/Northwest Territories BWMA negotiations are ongoing.

- Saskatchewan and the Northwest Territories have shared information, discussed their respective interests, and discussed the components for each section of the BWMA.
- The Saskatchewan/Northwest Territories BWMA will apply to all transboundary waters shared by Saskatchewan and the Northwest Territories in the Mackenzie River Basin.

Looking Forward

- The provinces and territories will continue to negotiate their respective BWMA's in Fiscal Year 2020-2021.
- Alberta, Northwest Territories, British Columbia, and Yukon will continue to implement their BWMA's.
- The MRBB will look for linkages between its work and the work completed for the BWMA's. Information collected under the BWMA's could support future State of the Aquatic Ecosystem reports.

MRBB COMMITTEES

Committees	Responsibilities
State of the Aquatic Ecosystem Report (SOAER) Steering Committee	<ul style="list-style-type: none"> Manage information Determine options for the format of the SOAER Establish process for the report preparation and subsequent updates Make recommendations on the report content Prepare and review SOAER reports
Traditional Knowledge and Strengthening Partnerships (TKSP) Steering Committee	<ul style="list-style-type: none"> Provide Traditional Knowledge oversight Incorporate Traditional Knowledge into MRBB operations and products such as the SOAER
Strategic Science Committee (not active in 2019/20)	<ul style="list-style-type: none"> Work on science and monitoring issues that cut across individual BWMA's Support SOAER information requirements Provide advice and peer review on processes and methodologies Reviewing existing data and data collection programs Encourage the development of uniform monitoring procedures within the Mackenzie River Basin
Water Quality Task Team	<ul style="list-style-type: none"> Provide a forum for communication and information exchange on water quality Recommend basin-wide agreed-to approaches to assess water quality Develop reporting tools that support the SOAER and BWMA annual reporting requirements.
Communications Committee (not active in 2019/20)	<ul style="list-style-type: none"> Develop a communication strategy Prepare the Annual Report to Ministers Develop and maintain MRBB website content Prepare presentation materials and literature for the general public

MRBB STATE OF THE AQUATIC ECOSYSTEM REPORT

STEERING COMMITTEE

The MRBB, through its State of the Aquatic Ecosystem Report (SOAER) Steering Committee, continued to work on the next SOAER. The SOAER Steering Committee and Traditional Knowledge and Strengthening Partnership (TKSP) Steering Committees are working closely together and have formed a Joint Steering Committee to ensure that Indigenous Knowledge and science will be side by side throughout the development, analysis and reporting of the next SOAER.

The SOAER will:

- recognize the inherent value and importance of multiple knowledge systems in basin health assessment and create the space for people to come together and exchange knowledge;
- position Indigenous Knowledge and science together in an equitable manner
- recognize the basin as a place of meaning and use for people and tell the story of that place;
- build on the previous efforts of the MRBB and its committees to identify potential signs and signals (indicators) and available information across jurisdictions;
- provide information (from publically available knowledge sources) to residents, governments (Indigenous, municipal, regional, provincial/territorial and federal), industries, and others to make informed decisions; and,
- provide an opportunity for education and outreach through the information presented.

A contract to develop the content and web platform for the SOAER was signed in May 2019. The Joint Steering Committee met seven times in 2019-20 to discuss progress and provide clarification on the work to date. Regularly scheduled bi-weekly committee meetings commenced in March of 2020. In addition to those meetings, the SOAER committee chair and MRBB Executive Director began bi-weekly meetings with the consultants in January 2020 to facilitate communication and provide a mechanism for clarification and direction from the committee to the consultant. The web-based SOAER will be a phased approach with the current scope of work resulting in a web-based product that provides a high-level analysis of the state of the aquatic ecosystem for the basin as a whole, and a more detailed analysis of four aquatic indicators in each of the sub-basins. Future phases will gather information for additional indicators, develop additional detailed assessments of areas in the basin, and address data gaps identified in this phase of work.

Looking forward

The SOAER Steering Committee will continue to provide guidance and direction to the consultants developing the SOAER. The SOAER Steering Committee will continue to update the Board on progress at the semi-annual meetings and begin to develop a plan for the subsequent phases of the SOAER.

MRBB TRADITIONAL KNOWLEDGE AND STRENGTHENING PARTNERSHIPS STEERING COMMITTEE

The MRBB Traditional Knowledge and Strengthening Partnerships (TKSP) Steering Committee consists of the MRBB Indigenous Members and up to four members from government departments or agencies.

A major focus for the TKSP Steering Committee in 2019-20 was continued support for the development of the next SOAER. TKSP committee members shared feedback and provided advice at Joint Steering Committee meetings, and directly to the consultants developing the report. The TKSP committee had an initial meeting with the newly formed water quality task team and will continue to engage with them as their work progresses.

The TKSP Steering Committee continues to help implement the Tracking Change – The Role of Local and Traditional Knowledge in Watershed Governance research project, led by researchers at the University of Alberta (<http://www.trackingchange.ca/>). As the Tracking Change program is in its final years, a major focus in 2019-20 was to support reporting and final documentation of previously funded projects. To date, 30 projects have been funded in the Mackenzie River Basin. The traditional and local knowledge documented, and advice and experiences shared will support the development of future SOAERs and could support the implementation of the BWMA's.

Looking forward

The TKSP Steering Committee will continue to work jointly with the SOAER Steering Committee to advance the SOAER by providing feedback on the suitability of information and analyses shared in draft materials, and other products (i.e. website prototypes) as they are available. The Committee will continue to support the Tracking Change program and will look for opportunities to engage on specific projects and initiatives as the project evolves.

MRBB STRATEGIC SCIENCE COMMITTEE

In 2017, the MRBB agreed to create a Strategic Science Committee (formerly Technical Committee) consisting of one member representing each provincial and territorial jurisdiction, one from each federal department/agency on the Board, and a member representing the TKSP Committee. As of March 2020, the Terms of Reference for the Strategic Science Committee were still in development.



Photo Credit: Shutterstock
Slave River, Northwest Territories

WATER QUALITY TASK TEAM

In November 2018, the MRBB supported the establishment of a Water Quality Task Team (WQTT). This team will work to promote greater coordination and efficiency of tasks related to water quality to achieve the principles of the Mackenzie River Basin Transboundary Waters Master Agreement by:

1. providing a forum for communication and information exchange on water quality,
2. recommending basin-wide agreed-to approaches to assess water quality, and
3. developing reporting tools that support the SOAER and BWMA annual reporting requirements.

In 2019-20, the WQTT reached consensus on a terms of reference, and, through in-kind support from the Alberta-Northwest Territories BWMA Joint Implementation Fund, entered into a contract that will support the development of a work plan for the team. At the end of the 2019-20 fiscal year, the consultant had scheduled interviews with relevant individuals and was making progress on the first draft of a work plan.

Looking forward

Following receipt and review of the consultant's deliverable that summarizes the interview results and provides recommendations for the work plan, the WQTT will discuss timing and resources required for implementation. A presentation to the Board for work plan/budget approval will be made in the summer/fall of 2020.

MRBB COMMUNICATIONS *UPDATE*

The MRBB website content management system was upgraded in early 2019. The website has been reorganized to be more user friendly and improve access to information for the public and members. One change of note is the addition of a “Resources” section that includes links to Agency Reports, Meeting Minutes (as of December 2019) and basin wide research and funding initiatives. The information in the Resources section will be reviewed and updated on a regular basis.



Photo Credit: Shutterstock
Ice road from Inuvik to Aklavik on the MacKenzie River (East Branch)

LOOKING FORWARD

In Fiscal Year 2020-2021, the Mackenzie River Basin Board anticipates that its activities will be directed towards the following priorities:

- Review recommendations from the Strategic and Operational Review report and prioritize implementation of key components,
- Update the Strategic Plan for the MRBB,
- Discuss the MRBB's role in the implementation of the BWMA's, and develop communication materials in support of the completion of agreements,
- Continue the work of the SOAER Steering Committee and TKSP Steering Committee on a web-based State of the Aquatic Ecosystem Report,
- Continue the work of the TKSP Steering Committee in cooperation with the University of Alberta, Government of the Northwest Territories, and national and international partners to support the Tracking Change Research Project, and
- Seek opportunities to cooperate on activities within the basin that align with the objectives of the Board. In 2020-21, it is anticipated that cooperation will focus on the work of multiple jurisdictions that support the Wood Buffalo National Park Action Plan. There are significant environmental flow and hydrology elements in the plan with potential implications for transboundary water management.

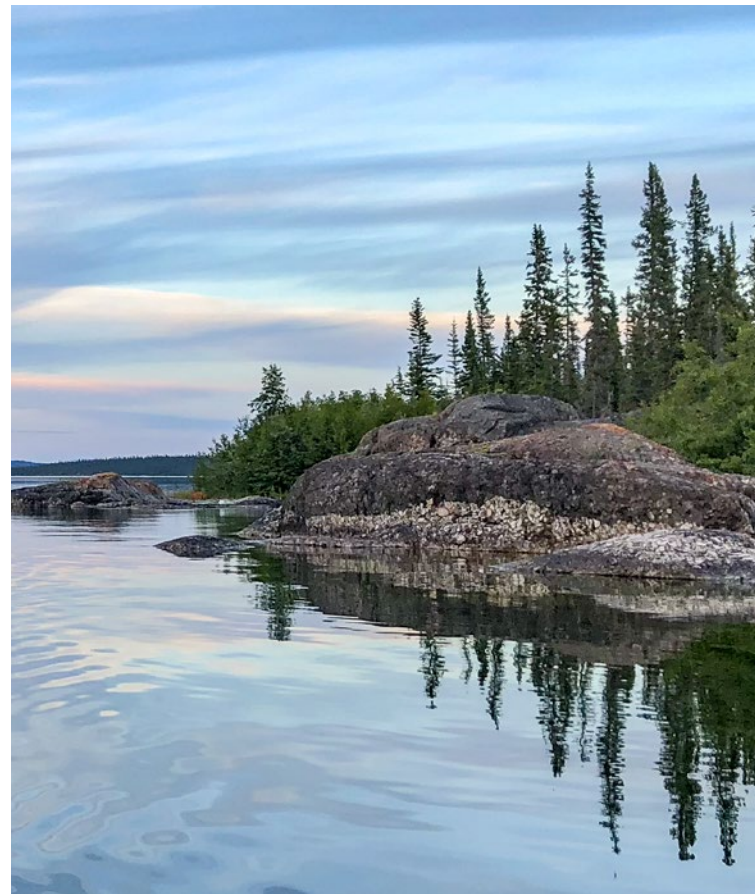


Photo Credit: Zizhao (Finn) Wang
Great Slave Lake

APPENDIX I: 2019-20 FINANCIAL REPORT

Mackenzie River Basin Board 2019-2020 Expenditures – March 31,2020	Total
Contribution	
18-19 Carry Forward from Provinces & Territories (Auth 7025)	\$ 760,839.45
19-20 Payment by Northwest Territories (Auth 7025)	40,000.00
19-20 Payment by Yukon (Auth 7025)	40,000.00
19-20 Payment by British Columbia (Auth 7025)	40,000.00
19-20 Payment by Alberta (Auth 7025)	40,000.00
19-20 Payment by Saskatchewan (Auth 7025)	40,000.00
19-20 Payment by CIRNAC (Auth 6038)	40,000.00
19-20 Salary and benefits from ECCC	41,704.95
19-20 O&M from ECCC	3,283.85
a) Total 2019-20 MRBB Contributions	1,045,828.25
Expenditures	
Salary (Provinces and Territories auth 7025)	86,345.08
O&M (Provinces and Territories auth 7025)	167,448.04
O&M (AANDC Auth 6038)	40,000.00
Salary and benefits from ECCC	41,704.95
O&M from ECCC	3,283.85
b) Total 2018-19 Expenditures	338,781.92
c) = (a-b) Carry Forward	\$ 707,046.33



photo credit: Zizhao (Finn) Wang
Great Slave Lake

APPENDIX II: MRBB MEMBERSHIP ON MARCH 30, 2020

Alberta

Government Member: Brian Yee
 Government Alternate: Carmen de la Chevrotière
 Indigenous Member: vacant

* Darren Calliou resigned as Indigenous MRBB member

British Columbia

Government Member: Lynn Kriwoken
 Government Alternate: Sean Moore
 Indigenous Member: Lana Lowe

* Lana Lowe replaced Vera Nicholson as Indigenous MRBB member

Northwest Territories

Government Member: Erin Kelly
 Government Alternate: Nathen Richea
 Indigenous Member: Leon Andrew

* Nathen Richea replaced Robert Jenkins as alternate MRBB government member

Crown-Indigenous Relations and Northern Affairs Canada

Member: Matthew Spence
 Alternate: Nicholas Mitchell

Saskatchewan

Government Member: John Fahlman
 Government Alternate: Susan Ross
 Indigenous Member: Joseph Tsannie

Yukon

Government Member: Heather Jirousek
 Government Alternate: Emma Seward
 Indigenous Member: Corrine Porter

* Emma Seward appointed as alternate MRBB government member

Environment and Climate Change Canada

Government Member: Nadine Stiller
 Government Alternate: Patrick Cherneski

* Patrick Cherneski replaced Mike Renouf as alternate MRBB government member

Parks Canada Agency

Government Member: Jonah Mitchell
 Government Alternate: Laurie Wein

* Parks Canada Agency joined the Board as the third Federal Government member in 2019-20

* Denotes change in membership from April 1, 2019 to March 31, 2020

MRBB

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