



# 2022-2023 OSM WORK PLAN APPLICATION

This form will be used to assess the merits of the proposed work plan and its fit with the Oil Sands Monitoring (OSM) Program mandate and strategic priorities. Applicants must complete the form in its entirety. Applicants that fail to use this form and complete all sections in the timeframe will not be considered.

OSM Work Plan Submission Deadline: The deadline for submission of proposed work plans is <b>October 5, 2021 at 4:30 PM Mountain Standard time.</b>	<b>October 5, 2021</b> 4:30 PM MST
<b>Decision Notification</b>	Mid to Late January 2022

The OSM Program is governed by the Freedom of Information and Protection of Privacy Act (FOIP) and may be required to disclose information received under this Application, or other information delivered to the OSM Program in relation to a Project, when an access request is made by anyone in the public. Applicants are encouraged to familiarize themselves with FOIP. All work plans are public documents.

## WORK PLAN COMPLETION

Please **Enable Macros** on the form when prompted.

The applicant is required to provide information in sufficient detail to allow the evaluation team to assess the work plan. Please follow the requirements/instructions carefully while at the same time being concise in substantiating the project's merits. The OSM Program is not responsible for the costs incurred by the applicant in the preparation and submission of any proposed work plan.

When working on this form, please maintain Macros compatibility by always saving your draft and your final submission as a **Microsoft Word Macro-Enabled Document**, failure to do so will result in loss of form functionality. This form was created using Microsoft word 2016 on a PC and may not have functionality on other versions of Microsoft on PC or MACS.

All work plans under the OSM Program require either a government lead or a government coordinator. This will ensure that the financial tables (for Alberta Environment and Parks & Environment and Climate Change Canada) are completed accurately for work plan consideration. **However, if an Indigenous community, environmental nongovernmental organization or any other external partner is completing a work plan proposal, they would only complete the grant or contract budget component of the Human Resources & Financials Section** for their project. The government coordinator within Alberta Environment & Parks would be responsible for completing the remaining components of the Human Resources and Financial Section of this Work Plan Application, as they are responsible for contract and grant facilitation of successful submissions. All other sections outside of Human Resources & Financials Section of this work plan proposal are to be completed in full by all applicants.

The OSM Program recognizes that majority of work planning submissions are a result of joint effort and monitoring expertise. Should the applicant wish to submit supplemental materials in addition to their application additional resources are available in the Work Planning Form and Distribution Package, accessible here: [Work Planning Form and Distribution Package](#)

Should you have any **questions** about completing this work planning form or uploading your final submission documents, please send all inquiries by email to: [OSM.Info@gov.ab.ca](mailto:OSM.Info@gov.ab.ca).



## WORK PLAN SUBMISSION

Upon completion of this application, please submit the appropriately named work plan (**Microsoft Word Macro-Enabled Document**) and all supporting documents to the link provided below. Failure to follow the naming convention provided may result in oversight of your application.

Please upload (by drag and dropping) the **WORK PLAN SUBMISSION & ALL SUPPORTING DOCUMENTS** here:

### [WORK PLAN SUBMISSION LINK \(CTRL+CLICK HERE\)](#)

Please use the following file naming convention when submitting your **WORK PLAN**:

**202223\_wkpln\_WorkPlanTitle\_ProjectLeadLastNameFirstName**

**Example:**

202223\_wkpln\_OilSandsResiduesinFishTissue\_SmithJoe

If applicable, please use the following file naming convention when submitting your **supplementary or supporting files**. Please number them according to the guidance and examples provided:

**202223\_sup##\_WorkPlanTitle\_ProjectLeadLastNameFirstName**

**Examples:**

202223\_sup01\_OilSandsResiduesinFishTissue\_SmithJoe

202223\_sup02\_OilSandsResiduesinFishTissue\_SmithJoe

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202223\_sup10\_OilSandsResiduesinFishTissue\_SmithJoe

**Do not resave your work plan or documents under any other naming conventions.** If you need to make revisions and resubmit before the work planning deadline of October 5, 2021, **DO NOT** rename your submission. When resubmitting, simply resubmit with the exact naming convention so that it replaces the original submission. **DO NOT** add any additional components such as versioning or dates to the file naming convention. Please direct any questions regarding the submission or naming of submissions to [OSM.Info@gov.ab.ca](mailto:OSM.Info@gov.ab.ca).



## WORK PLAN APPLICATION

PROJECT INFORMATION	
<b>Project Title:</b>	Althabasca Aquatic Monitoring Program – Documenting Local Environmental Change
<b>Lead Applicant, Organization, or Community:</b>	Althabasca Landing Métis Community Association
<b>Work Plan Identifier Number:</b> <i>If this is an on-going project please fill the identifier number for 20/21 fiscal by adjusting the last four digits: <b>Example:</b> D-1-2020 would become D-1-2022</i>	Click or tap here to enter text.
<b>Project Region(s):</b>	Oil Sands Region
<b>Project Start Year:</b> <i>First year funding under the OSM program was received for this project (if applicable)</i>	2021
<b>Project End Year:</b> <i>Last year funding under the OSM program is requested <b>Example:</b> 2022</i>	2024
<b>Total 2022/23 Project Budget:</b> <i>For the 2022/23 fiscal year</i>	\$311,075.00
<b>Requested OSM Program Funding:</b> <i>For the 2022/23 fiscal year</i>	\$311,075.00
<b>Project Type:</b>	Community Based Monitoring
<b>Project Theme:</b>	Surface Water
<b>Anticipated Total Duration of Projects (Core and Focused Study (3 years))</b>	Year 3
<b>Current Year</b>	<b>Focused Study:</b> Choose an item.
	<b>Core Monitoring:</b> Year 2

CONTACT INFORMATION	
<b>Lead Applicant/ Principal Investigator:</b> <i>Every work plan application requires one lead applicant. This lead is accountable for the entire work plan and all deliverables.</i>	Diane Scoville
<b>Job Title:</b>	Project Manager
<b>Organization:</b>	<b>Athabasca Landing Métis Community Association</b>
<b>Address:</b>	PO Box 105, Plamondon AB, T0A 2T0
<b>Phone:</b>	780-520-0090
<b>Email:</b>	dscoville57@gmail.com

## PROJECT SUMMARY

Should your application be successful, The OSM Program reserves the right to publish this work plan application. Please check the box below to acknowledge you have read and understand:

I acknowledge and understand

In the space below please provide a summary (300 words max) of the proposed project that includes a brief overview of the project drivers and objectives, the proposed approach/methodology, project deliverables, and how the project will deliver to the OSM Program objectives. The summary should be written in plain language.

This project aims to better understand the local state of environmental conditions and changes in the Athabasca Oil Sands, through the implementation of a community-based aquatic monitoring program by the Athabasca Landing Métis Community Association (ALMCA). This year's funding focuses on the first year of implementing the ALMCA Aquatic Monitoring Program. This project builds on collaborative knowledge sharing processes in 2021-22 between ALMCA members, Alberta Environment and Parks (AEP) discipline-specific experts, and non-governmental social scientists to develop a program guide to support community-driven aquatic monitoring that encompasses methods and indicators from both western science and Indigenous knowledge in the Athabasca Oil Sands area.

ALMCA members traditionally harvest on crown lands north of Athabasca, AB that overlaps with the Athabasca Oil Sands Area. This project will inform the key questions and concerns ALMCA members have related to aquatic resources in the region through braiding information, knowledge, and data from both western science and Indigenous Knowledge. As such, data collected from aquatic monitoring will inform ALMCA limits of change for social and ecological baselines of aquatic resources, particularly focusing on values of important areas, harvesting and occupancy patterns, food security, harvesting volumes and effort, ALMCA relationship to the land, and intergenerational knowledge transfer, in addition to core ecological values of species abundance, condition, distribution, and habitat integrity. To support this work, ALMCA staff implementing the Aquatic Monitoring Program will receive training through collaboration with the ICBMC to gather and analyse desired information. As the first year of implementation, it is intended to serve as a foundation for gathering data and building capacity that can be further expanded in future years of the ALMCA Aquatic Monitoring Program.

## 1.0 Merits of the Work Plan

All work plans under the OSM Program must serve the mandate of the program by determining (1) if changes in indicators are occurring in the oil sands region and (2) if the changes are caused by oil sands development activities and (3) the contribution in the context of cumulative effects. In the space below please provide information on the following:

- Describe the key drivers for the project identifying linkages to the EEM framework particularly as it relates to surveillance, confirmation and limits of change (as per OC approved Key Questions).
- Explain the knowledge gap as it relates to the EEM framework that is being addressed along with the context and scope of the problem as well as the Source – pathway – Receptor Conceptual Models .
- Describe how the project meets the mandate of the OSM Program
- Discuss results of previous monitoring/studies/development and what has been achieved to date.

This project will focus on building capacity and gathering information that directly relates to aquatic resources traditionally used by ALMCA members, linking to the key themes within the EEM framework for surface water quantity/quality within the Athabasca Oil Sands region and operations. By gathering data informed by western science and Indigenous Knowledge that includes ALMCA-specific indicators, the project will support documenting changes impacted by the oil sands development as well as how it relates to the broader contribution of cumulative effects within ALMCA territory.

ALMCA members have participated in community-based monitoring activities for the last three years with funding from Environment and Climate Change Canada (ECCC). These monitoring activities have been documented in an extensive database and will be used to inform roundtable discussions and provide insight on best practices in the development of the ALMCA Aquatic Monitoring Program. The database features geo-referenced photographs and notes of traditional knowledge-based observations of local environmental change.

In Fall 2021, ALMCA is conducting roundtable discussions with ALMCA knowledge holders, AEP topic-specific experts and non-government social scientists, with the support of the OSM and the ICBM, to develop a program guide that will be the foundation of the ALMCA Aquatic Monitoring Program to be implemented in this workplan proposal. These roundtable discussions are occurring during Fall 2021, using the following key knowledge gaps questions within the existing OSM Program and EEM framework (based on Oil Sand Monitoring Key Questions DRAFT, updated November 5, 2020):

- How do changes to aquatic resources and water quantity impact Indigenous health, wellbeing and culture?
- How do changes to water quality/quantity impact harvesting and occupancy patterns, food security, intergenerational transfer of knowledge, resource sharing, and people’s relationship and obligations to the land?
- What is the population status of aquatic and semi-aquatic species of concern compared to Indigenous indicators and limits of change?

It is from these discussions that ALMCA will develop an aquatic monitoring program guide. The program guide will encompass many community and region-specific considerations including indicators, methods, and procedures from existing standards of operations developed by the province, federal government and the OSM and ICBM. The remaining data gaps identified in the program guide will be a core component of the development of the ALMCA Aquatic Monitoring Program being implemented in this workplan. Furthermore, the program guide will help prioritize monitoring objectives and technical capacity training needed to support a long-term community-driven aquatic monitoring program. The program guide is expected to be developed by February 2022 and ALMCA members will be provided any additional training needed through collaboration with the OSM-ICBM.

The OSM Program provides a foundational vision focused on achieving integration with Indigenous communities related to monitoring, evaluation, and reporting. ALMCA is braiding traditional knowledge and western science to better understand environmental conditions, impacts and cumulative environmental effects to aquatic resources related to oil sands development in the Athabasca region. Furthermore, this project will provide key information related to Indigenous Rights and Culture around

access to important areas, harvesting and occupancy patterns, food security, harvesting volumes and effort, ALMCA relationship to the land, and intergenerational knowledge transfer related to aquatic resources. The information collected and shared by ALMCA will support the overall OSM Program objective to develop Indigenous limits of change for social and ecological baselines. In addition, the project will be linked directly to the following areas of the OSM Program:

Surveillance - explore the relationship between ALMCA membership and water quality to document effects on health and wellbeing, aquatic resources (e.g., ALMCA traditionally used fish and aquatic plants), and general ecology.

Limits of Change – explore ALMCA indicators for change related to aquatic resources, water quality and quantity.

ALMCA recognizes and supports the ICBM values related to integration, including:

- 1) Ensuring respectful and equitable approaches to knowledge sharing and integration;
- 2) Using harmonized protocols developed in collaboration with ALMCA;
- 3) Using interdisciplinary and multiple evidence-based approaches; and
- 4) Fostering active community-led participation.

## 2.0 Objectives of the Work Plan

List in point form the Objectives of the 2022/23 work plan below

- Pilot the ALMCA Aquatic Monitoring Program;
- Gather knowledge, data and other information to inform the ALMCA Aquatic Monitoring Program objectives, including baseline/current status conditions, and ALMCA indicators of change/thresholds for the Athabasca Oil Sands Area;
- Build technical capacity for ALMCA members to support community-driven aquatic monitoring for future years; and
- Develop reports from the first year of monitoring that include recommendations/direction for future implementation of the ALMCA Aquatic Monitoring Program.

### 3.0 Scope

#### Evaluation of Scope Criteria (Information Box Only- No action required)

Your workplan will be evaluated against the criteria below. A successful workplan would:

- be in scope of the OSM Program (e.g., regional boundaries, specific to oil sands development, within boundaries of the Oil Sands Environmental Monitoring Program Regulation)
- integrate western science with Indigenous Community-Based Monitoring
- addresses the EEM framework particularly as it relates to surveillance, confirmation and limits of change as per approved Key Questions.

have an experimental design that addresses the Pressure/Stressor, Pathway/Exposure, Response continuum

- produce data/knowledge aligned with OSM Program requirements and is working with Service Alberta
- uses Standard Operating Procedures/ Best Management Practices/ Standard Methods including for Indigenous Community-Based Monitoring

### 3.1 Sub Theme

Please select from the dropdown menu below the theme(s) your monitoring work plan relates to:

Surface Water

### 3.2 Core Monitoring or Focused study

Please select from the dropdown menu below if the monitoring in the work plan is "core monitoring" and/or a "focused study". Core monitoring are long term monitoring programs that have been in operation for at least 3 years, have been previously designated by the OSM program as core, and will continue to operate into the future. Focused studies are short term projects 1-2 years that address a specific emerging issue. For the purposes of 2022/23 work planning all Community Based Monitoring Projects are Focused Studies.

Focused Study (includes Community-Based Monitoring)

### 3.3 Sub Theme Key Questions

Please select from the dropdown menus below the sub-theme(s) your monitoring work plan relates to and address the Key Questions:

#### 3.3.1 Surface Water Theme

##### 3.3.1.1. Sub Themes:

Cross Cutting

##### 3.4.1.2 Surface Water Key Questions

Explain how your surface water monitoring program addresses the key questions below.

1. Are changes occurring in water quality, biological health (e.g., benthos, fish) and/or water quantity/flows, to what degree are changes attributable to oil sands activities, and what is the contribution in the context of cumulative effects?

This project will be implementing the first year of an aquatic monitoring program that is developed through facilitated discussions between ALMCA and AEP experts and informed by the ICBMAC Standard Operational Procedures. The information generated will explore the changes in water quality, biological health, and water quantity that are attributable to oil sands development in the Athabasca region. Both traditional knowledge and western science perspectives and data will be utilized to inform this question. ALMCA is particularly interested in the cumulative impacts to surface water resources, as well as specific impacts to species condition, habitat, and population dynamics of traditionally consumed fish, such as walleye, whitefish, cisco (tullibee), and burbot (mariah), as a response to oil sands development. The program guide to be completed in February 2022 will help focus on remaining EEM Framework knowledge gaps and ALMCA priority values. This project builds off three years of ECCC funded ALMCA community-based monitoring, as well as the knowledge holders' firsthand experience of changes on the landscape.

2. Are changes in water quality and/or water quantity and/or biological health informing Indigenous key questions and concerns?

This project provides connection to Indigenous key questions and concerns around aquatic resources through the implementation of a program guide developed through direct dialogue between ALMCA members and AEP scientists. The implementation of the ALMCA Aquatic Monitoring Program will not only continue to identify new questions, but also provide answers to the key questions ALMCA members have through a community-based monitoring initiative that they can be directly involved in. Current Key Questions being addressed include:

- How do changes to aquatic resources and water quantity impact Indigenous health, wellbeing and culture?
- How do changes to water quality/quantity impact harvesting and occupancy patterns, food security, intergenerational transfer of knowledge, resource sharing, and people's relationship and obligations to the land?
- What is the population status of aquatic and semi-aquatic species of concern compared to Indigenous indicators and limits of change?

3. Are data produced following OSM Program requirements and provided into the OSM Program data management system?

As the ALMCA Aquatic Monitoring Program is developed through dialogue with AEP scientists, the implementation of this program will generate information that aligns with OSM Program Data requirements to support the integration of data into the OSM program data management system.



However, ALMCA may exclude any culturally sensitive information at its discretion. ALMCA members participating in monitoring will also receive method-specific training through collaboration with ICBM.

4. Do methodologies use relevant Standard Operating Procedures/ Best Management Practices/ Standard Methods?

The ALMCA Aquatic Monitoring Program will be informed by both western science and Indigenous Knowledge. To be completed in February 2022, ALMCA is working with knowledge holders, AEP and non-governmental scientists to develop a program guide to ensure monitoring techniques follow SOP/Best Practices, including Federal, Alberta, and ICBMAC guidelines. ALMCA members participating in monitoring will also receive method-specific training through collaboration with ICBM.

5. How does the monitoring identify integration amongst projects, themes or with communities?

By implementing the ALMCA Aquatic Monitoring Program, the project will provide key information related to Indigenous Rights and Culture on access to important areas, harvesting and occupancy patterns, food security, harvesting volumes and effort, ALMCA relationship to the land, and integration and transmission of Indigenous Knowledge. Indigenous Knowledge information gathered for this project will follow best practice social science methodology around community research, including informed consent, data management, and anonymity (as needed) and other ALMCA-specific protocols. The information collected and shared by ALMCA will support the overall OSM Program Objective to develop Indigenous limits of change for social and ecological baselines, particularly for aquatic resources. The aquatic monitoring program will have information from traditional knowledge and western science to better understand the environmental conditions and impacts related to oil sands development from the ALMCA perspective, which can also further inform understanding of greater cumulative impacts within the region.

6. 7.6. Where does the monitoring fit on the conceptual model within the EEM framework for the theme area and relative to the conceptual model for the OSM Program theme area? How will this work advance understanding transition towards of the conceptual model EEM framework?

This project focuses on the key areas of the EEM framework related to surveillance, Indigenous Rights and Culture, and limits of change. Data from the implementation of the ALMCA Aquatic Monitoring Program will target core ICBM program themes related to changes to biodiversity of aquatic resources (species abundance, health, quality), the status of water quality/quantity, harvesting and cultural practices for ALMCA members, and ALMCA concerns from environmental contamination and change.

7. Is the work plan contributing to Programmatic State of Environment Reporting?

ALMCA is willing to connect to the Programmatic State of Environment Reporting, if there is an opportunity to do so.

### 3.3.2 Groundwater Theme

#### 3.3.2.1 Sub Themes:

Choose an item.

#### 3.3.2.2 Groundwater Key Questions

Explain how your groundwater monitoring program addresses the key questions below.

1. Are changes occurring in groundwater quality and/or quantity, to what degree are changes attributable to oil sands activities, are changes affecting other ecosystems, and what is the contribution in the context of cumulative effects?

Click or tap here to enter text.

2. Are changes in groundwater quality and/or quantity informing Indigenous key questions and concerns Indigenous concerns and health?

Click or tap here to enter text.

3. Are data produced following OSM Program requirements and provided into the OSM Program data management system?

Click or tap here to enter text.

4. Do methodologies use relevant Standard Operating Procedures/ Best Management Practices/ Standard Methods?

Click or tap here to enter text.

5. How does the monitoring identify integration amongst projects, themes or with communities?

Click or tap here to enter text.

6. Where does the monitoring fit within the EEM framework and relative to the theme area? How will this work advance transition towards the EEM framework?

Click or tap here to enter text.

7. Where does the monitoring fit on the conceptual model for the theme area and relative to the conceptual model for the OSM Program? How will this work advance understanding of the conceptual model?

Click or tap here to enter text.

8. Is the work plan contributing to Programmatic State of Environment Reporting?

Click or tap here to enter text.

### 3.3.3 Wetlands Theme

#### 3.3.3.1 Sub Themes:

Choose an item.

#### 3.3.3.2 Wetland - Key Questions

Explain how your wetland monitoring program addresses the key questions below.

1. Are changes occurring in wetlands due to contaminants and hydrological processes, to what degree are changes attributable to oil sands activities, and what is the contribution in the context of cumulative effects?

Click or tap here to enter text.

2. Are changes in wetlands informing Indigenous key questions and concerns?

Click or tap here to enter text.

3. Are data produced following OSM Program requirements and provided into the OSM Program data management system?

Click or tap here to enter text.

4. Do methodologies use relevant Standard Operating Procedures/ Best Management Practices/ Standard Methods?

Click or tap here to enter text.

5. How does the monitoring identify integration amongst projects, themes or with communities?

Click or tap here to enter text.

6. Where does the monitoring fit within the EEM framework and relative to the theme area? How will this work advance transition towards the EEM framework?

Click or tap here to enter text.

7. Where does the monitoring fit on the conceptual model for the theme area and relative to the conceptual model for the OSM Program? How will this work advance understanding of the conceptual model?

Click or tap here to enter text.

8. Is the work plan contributing to Programmatic State of Environment Reporting?

Click or tap here to enter text.



**3.3.4 Air Theme**

**3.3.4.1 Sub Themes:**

Choose an item.

**3.3.4.2 Air & Deposition - Key Questions**

Explain how your air & deposition monitoring program addresses the key questions below.

1. Are changes occurring in air quality, to what degree are changes attributable to oil sands emissions, and what is the contribution in the context of cumulative effects?

Click or tap here to enter text.

2. Are changes informing Indigenous key questions and concerns?

Click or tap here to enter text.

3. Are data produced following OSM Program requirements and provided into the OSM Program data management system?

Click or tap here to enter text.

4. Do methodologies use relevant Standard Operating Procedures/ Best Management Practices/ Standard Methods?

Click or tap here to enter text.

5. How does the monitoring identify integration amongst projects, themes or with communities?

Click or tap here to enter text.

6. Where does the monitoring fit within the EEM framework and relative to the theme area? How will this work advance transition towards the EEM framework?

Click or tap here to enter text.

7. Where does the monitoring fit on the conceptual model for the theme area and relative to the conceptual model for the OSM Program? How will this work advance understanding of the conceptual model?

Click or tap here to enter text.

8. Is the work plan contributing to Programmatic State of Environment Reporting? (Answer Box)

Click or tap here to enter text.



**3.3.5 Terrestrial Biology Theme**

**3.3.5.1 Sub Themes:**

Choose an item.

**3.3.5.2 Terrestrial Biology - Key Questions**

Explain how your terrestrial biological monitoring program addresses the key questions below.

1. Are changes occurring in terrestrial ecosystems due to contaminants and landscape alteration, to what degree are changes attributable to oil sands activities, and what is the contribution in the context of cumulative effects?

Click or tap here to enter text.

2. Are changes in terrestrial ecosystems informing Indigenous key questions and concerns?

Click or tap here to enter text.

3. Are data produced following OSM Program requirements and provided into the OSM Program data management system?

Click or tap here to enter text.

4. Do methodologies use relevant Standard Operating Procedures/ Best Management Practices/ Standard Methods?

Click or tap here to enter text.

5. How does the monitoring identify integration amongst projects, themes or with communities?

Click or tap here to enter text.

6. Where does the monitoring fit within the EEM framework and relative to the theme area? How will this work advance transition towards the EEM framework?

Click or tap here to enter text.

7. Where does the monitoring fit on the conceptual model for the theme area and relative to the conceptual model for the OSM Program? How will this work advance understanding of the conceptual model?

Click or tap here to enter text.

8. Is the work plan contributing to Programmatic State of Environment Reporting?

Click or tap here to enter text.



**3.3.6 Cross-Cutting Across Theme Areas**

**3.3.6.1 Sub Themes:**

Choose an item.

If "Other" was selected from the drop down list above please describe below:

Click or tap here to enter text.

**3.3.6.2 Cross-Cutting - Key Questions**

Explain how your cross-cutting monitoring program addresses the key questions below.

1. Is data produced following OSM Program requirements and provided into the OSM Program data management system?

Click or tap here to enter text.

2. Do methodologies use relevant Standard Operating Procedures/ Best Management Practices/ Standard Methods?

Click or tap here to enter text.

3. How does the monitoring identify integration amongst projects, themes or with communities?

Click or tap here to enter text.

4. Where does the monitoring fit within the EEM framework and relative to the theme area? How will this work advance transition towards the EEM framework?

Click or tap here to enter text.

5. Where does the monitoring fit on the conceptual model for the theme area and relative to the conceptual model for the OSM Program? How will this work advance understanding of the conceptual model?

Click or tap here to enter text.

6. Is the work plan contributing to Programmatic State of Environment Reporting?

Click or tap here to enter text.

## 4.0 Mitigation

### Evaluation of Mitigation Criteria (Information Box Only- No action required)

Your workplan will be evaluated against the criteria below. A successful workplan would potentially inform:

- efficacy of an existing regulation or policy
- an EPEA approval condition
- a regional framework (i.e., LARP)
- an emerging issue

Explain how your monitoring program informs management, policy and regulatory compliance. As relevant give consideration for the EEM framework and the approved Key Questions.

The ALMCA Aquatic Monitoring Program is developed to gather information to address key knowledge gaps within the existing OSM Program and EEM Framework (based on Oil Sand Monitoring Key Questions DRAFT, updated November 5, 2020):

- How do changes to aquatic resources and water quantity impact Indigenous health, wellbeing and culture?
- How do changes to water quality/quantity impact harvesting and occupancy patterns, food security, intergenerational transfer of knowledge, resource sharing, and people's relationship and obligations to the land?
- What is the population status of aquatic and semi-aquatic species of concern compared to Indigenous indicators and limits of change?

Additional gaps identified in the program guide (to be complete in February 2022), will inform the methodologies in the ALMCA Aquatic Monitoring Program being implemented in the 2022-23 workplan.

The data collected through this project to address these gaps will be added to the OSM Program database to support overall management in the Athabasca region. Through piloting the first year of the ALMCA Aquatic Monitoring Program, including training ALMCA members to gather and analyze information, ALMCA's capacity to engage in future discussions around management and policy from an Indigenous perspective emphasizing rights and culture will be supported.

## 5.0 Indigenous Issues

### Evaluation of Indigenous Issues Criteria (Information Box Only- No action required)

Your workplan will be evaluated against the criteria below. A successful workplan would potentially:

- Investigate Indigenous communities key questions and concerns
- Includes culturally relevant receptor(s) and indicator(s)
- Include or be driven by Indigenous communities (participatory or collaborative)
- Develop capacity in Indigenous communities
- Include a Council Resolution or Letter of Support from one or more Indigenous communities
- Describe how ethics protocols and best practices regarding involvement of Indigenous peoples will be adhered to
- Provide information on how Indigenous Knowledge will be collected, interpreted, validated, and used in a way that meets community Indigenous Knowledge protocols

Explain how your monitoring activities are inclusive and respond to Indigenous key questions and concerns and inform the ability to understand impacts on concerns and inform Section 35 Rights

ALMCA members' traditionally harvest on crown lands north of Athabasca, AB that overlap with the Athabasca Oil Sands Area (refer to ALMCA Crownland Harvesting & Athabasca Oil Sands map provided in supplementary materials - #2). This project will inform the key questions and concerns ALMCA members have related to aquatic resources in the region through braiding information, knowledge and data from both western science and Indigenous Knowledge through the implementation of the ALMCA community-based Aquatic Monitoring Program. This workplan builds on previous work in 2021-22, by implementing a program guide (to be completed in February 2022) through collaborative discussions between ALMCA, AEP scientists, and non-governmental scientists. Furthermore, ALMCA members participating in the implementation of the Aquatic Monitoring Program will receive training through collaboration with the ICBMAC to gather and analyse desired information. As such, the aquatic monitoring program is ALMCA-driven and directed with a focus on capacity building opportunities for our members in monitoring technical skills and intergenerational knowledge sharing of ALMCA culture and values between our membership.

This project includes focus on ALMCA limits of change for social and ecological baselines of aquatic resources, particularly focusing on values of important areas, harvesting and occupancy patterns, food security, harvesting volumes and effort, ALMCA relationship to the land, and intergenerational knowledge transfer, in addition to core ecological values of species abundance, condition, distribution, and habitat integrity.

This project is based in the braiding of traditional knowledge and western science to better understand environmental conditions, impacts and cumulative environmental effects related to oil sands development in the Athabasca region from the ALMCA perspective.

This project will follow ALMCA standards related to traditional knowledge and community participation, including informed consent, anonymity, management of intellectual property, and confidentiality of culturally sensitive information.

Does this project include an Integrated Community Based Monitoring Component?

Yes





## 6.0 Measuring Change

### Evaluation of Measuring Change Criteria (Information Box Only- No action required)

Your workplan will be evaluated against the criteria below. A successful workplan would potentially:

- assess changes in environmental conditions compared to baseline (e.g., validation of EIA predictions)
- report uncertainty in estimates and monitoring is of sufficient power to detect change due to oil sands development on reasonable temporal or spatial scales
- include indicators along the spectrum of response (e.g., individual, population, community)
- focus on areas of highest risk (where change is detected, where change is greater than expected, where development is expected to expand (collection of baseline))
- measure change along a stressor gradient or a stressor/reference comparison

Explain how your monitoring identifies environmental changes and can be assessed against a baseline condition. As relevant give consideration for the EEM framework and the approved Key Questions.

This project will be the first year of field-work data collection and collating information to inform ALMCA limits and measurements of change related to social and ecological baselines of aquatic resources, particularly focusing on values of important areas, harvesting and occupancy patterns, food security, harvesting volumes and effort, ALMCA relationship to the land, and intergenerational knowledge transfer, in addition to core ecological values of species abundance, condition, distribution, and habitat integrity. The program guide that will inform the implementation of the ALMCA Aquatic monitoring program (to be completed in February 2022) will include how estimations of uncertainty will be measured following best practice and standard operating procedure methods. Furthermore, ALMCA members engaging in fieldwork will be trained to conduct the desired methods to ensure data integrity through the support ICBM training opportunities.

The temporal scale will be based on data collected through the 2021-22 round table discussions (which includes any other previous monitoring efforts) that can be compared to the data collected in 2022-23. ALCMA will continue to work with AEP on access to existing aquatic baseline data for the region through the OSM Program database. To be detailed in the February 2022 program guide, it is anticipated that the indicators being monitored will encompass a spectrum of responses (from individual populations to community of organisms) through the braiding of Indigenous knowledge and applicable western science methods for aquatic monitoring. Additionally, ALMCA is open to inform and adapt the methods used for the aquatic monitoring with the relative ICBM SOPs as they become available.

This project will be based in the Athabasca oil sands region, focusing on key areas of ALMCA member use and harvest where there is a greater concern and risk for change. The spatial extent of the study area will be crownlands within the Athabasca Oil Sands area, as well as the Athabasca River between Athabasca Landing and Fort Chipewyan and several lakes with the Athabasca Oil Sands area of interest for aquatic resources (including Calling Lake, Lac La Biche, Wappau Lake, Steepbank Lake and Touchwood Lake) and downstream (including Lake Athabasca, Crow Lake). Exact monitoring locations will be determined from the Fall 2021 workshops with ALMCA knowledge holders.

## 7.0 Accounting for Scale

### Evaluation of Accounting for Scale Criteria (Information Box Only- No action required)

Your workplan will be evaluated against the criteria below. A successful workplan would potentially be:

- appropriate to the key question and indicator of interest
- relevant to sub-regional and regional questions
- relevant to organism, population and/or community levels of biological organization
- where modelled results are validated with monitored data
- where monitoring informs on environmental processes that occur at a regional scale. e.g. Characterizing individual sources to gain a regional estimate of acid deposition and understand signal from individual contributing sources.

Explain how your monitoring tracks regional and sub-regional state of the environment, including cumulative effects. As relevant give consideration for the EEM framework and the approved Key Questions.

The project will be focused within the Athabasca Oil Sands area, as well as the Athabasca River between Athabasca Landing and Fort McMurray and several lakes with the South Athabasca Oil Sands area of interest for aquatic resources (including Calling Lake, Lac La Biche, Wappau Lake, Steepbank Lake and Touchwood Lake) and downstream (including Lake Athabasca, Crow Lake). Exact monitoring locations will be determined from the fall 2021 workshops with ALMCA knowledge holders.

By implementing the ALMCA aquatic monitoring program, ALMCA will be able to collate information, including 2022-23 field data, to provide insight on the ALMCA measurements of change related to social and ecological baselines of aquatic resources, particularly focusing on values of important areas, harvesting and occupancy patterns, food security, harvesting volumes and effort, ALMCA relationship to the land, and intergenerational knowledge transfer, in addition to core ecological values of species abundance, condition, distribution, and habitat integrity.

ALMCA have identified walleye, whitefish, cisco (tullibee), and burbot (mariah) as key areas of focus for species-specific monitoring, however this list may change following roundtable discussions with ALMCA members and AEP experts to best address outstanding data gaps and key species of concern in Fall 2021.

The ALMCA Aquatic Monitoring Program directly address the EEM Framework key question of "What is the population status of aquatic and semi-aquatic species of concern compared to Indigenous indicators and limits of change?" and provides data to support population data for key aquatic and semi-aquatic (furbearer) species. The data collected for the 2022-23 field season will be compared and collated with data collected through the Fall 2021 round table discussions and relevant existing aquatic baseline data for the region through the OSM Program database.

## 8.0 Transparency

### Evaluation of Transparency Criteria (Information Box Only- No action required)

Your workplan will be evaluated against the criteria below. A successful workplan would potentially include:

- a plan for dissemination of monitoring data, including appropriate timing, format, and aligns with OSM program data management plan
- demonstrated transparency in past performance
- identified an annual progress report as a deliverable
- reporting of monitoring results occurs at timing and format that is appropriate for recipient audience.

Explain how your monitoring generates data and reporting that is accessible, credible and useful. As relevant give consideration for the EEM framework and the approved Key Questions.

ALMCA is concerned is that our traditional knowledge and findings have not been widely shared with members of the scientific and environmental monitoring community in Alberta. Our community seeks collaboration with AEP scientists to better interpret and understand the significance of our findings in light of scientific data on local environmental change. The methods used in the ALMCA Aquatic Monitoring program will also be guided by relevant ICBM SOPs as they become available.

Through the 2021-22 workplan ALMCA as committed to developing a program guide that summarizes the findings from the roundtable discussions, supported with additional data collection from ALMCA members to address any identified gaps to be peer reviewed, designed, published, and shared (both externally and within ALMCA membership). As the program guide is the foundation of the aquatic monitoring program, ALMCA will ensure the development of the program is consistent with OSM Program data requirements to support the integration of data into the OSM Program data management system, including consideration of OSM timelines (e.g., data submissions to the OSM Program Office by end of the calendar year) and annual reporting requirements. Furthermore, ALMCA members who will be implementing the aquatic monitoring program will receive training from the ICBM on field methods and data collection to ensure that complementary methods will produce monitoring data that will match the OSM program data management system. The program guide will also include a communications plan outline that showcases how monitoring results will be shared with the OSM Program and to ALMCA membership.

ALMCA may exclude any culturally sensitive information at its discretion.

## 9.0 Efficiency

### Evaluation of Efficiency Criteria (Information Box Only- No action required)

Your workplan will be evaluated against the criteria below. A successful workplan would include:

- appropriately addressed a risk-informed allocation of resources
- identified the role and justification for each staff member on the proposed work plan
- identified in-kind and leveraged resources (e.g., resources and approaches are appropriately shared with other OSM projects where possible)
- established partnerships (value-added) and demonstrated examples of coordinated efficiencies (e.g., field, analytical)
- identified co-location of monitoring effort
- demonstrated monitoring activities and information collected are not duplicative
- considered sampling/measurement/methods compatibility to other data sources (e.g., AER)

Explain how your monitoring is integrated with other OSM projects and incorporates community-based participation and/or engagement in proposed monitoring activities. As relevant give consideration for the EEM framework and the approved Key Questions.

ALMCA members have participated in community-based monitoring activities for the last three years with funding from Environment and Climate Change Canada. The ALMCA Aquatic Monitoring Program will use lessons learned from those activities to develop the program and ensure monitoring activities build off existing data and baselines. Furthermore, ALMCA members who will be implementing the aquatic monitoring program will receive training from the ICBM on field methods and data collection to ensure that complementary methods will produce monitoring data that will match the OSM program data management system and any provincial requirements.

The ALMCA Aquatic Monitoring Program will be based on community participation and the employment / training of ALMCA monitors. Part of the program will include developing the framework for positions within the monitoring program, including on-the-ground monitoring, data coordination, analysis, and reporting and the expectations and requirements for each of those roles. In addition, ALMCA staff engaging in fieldwork be able to access training through ICBM to implement desired aquatic monitoring methods.

The communications plan outlined in the program guide will support how information is shared between ALMCA and OSM. ALMCA will continue to seek partnerships with AEP and ECCC to support ongoing monitoring efforts in the Athabasca Oil Sands area. Through the work conducted in 2021-22 to develop the program guide, the aquatic monitoring methods implemented are informed by relevant programs and standards of operations and procedures developed by the federal government, province, and available ICBM SOPs. The data collected for the 2022-23 field season will be compared and collated with data collected through the Fall 2021 round table discussions and relevant existing aquatic baseline data for the region through the OSM Program database.

In 2022-23, ALMCA will also be participating with the Alberta Lake Management Society (ALMS) LakeKeepers program to further build capacity and connections related to lake water quality monitoring.



## 10.0 Work Plan Approach/Methods

10.1 List the Key Project Phases and Provide Bullets for Each Major Task under Each Project Phase \*

<p>Phase 1: Launch of the ALMCA Aquatic Monitoring Program</p> <ul style="list-style-type: none"> <li>- Identify capacity gaps (training, staff, etc) to implement the ALMCA Aquatic Monitoring Program</li> <li>- Advertise and hire staff and contractors as required for the 2022-23 workplan</li> <li>- Scope and establish partnerships, including data sharing agreements and coordinating with ICBM and other partners to receive appropriate training</li> <li>- Implementation of other actions, as identified in the program guide (anticipated to be completed in February 2022)</li> </ul> <p>Phase 2: Fieldwork, data collection and analysis</p> <ul style="list-style-type: none"> <li>- Conduct fieldwork as outlined in the program guide</li> <li>- Perform data analysis</li> </ul> <p>Phase 3: Reporting</p> <ul style="list-style-type: none"> <li>- Draft confidential ALMCA reporting (i.e. with confidential ALMCA knowledge) that includes             <ul style="list-style-type: none"> <li>o A summary of work conducted to date</li> <li>o Methods used, results from data analysis</li> <li>o Recommendations for future years' implementation</li> </ul> </li> <li>- Draft a non-confidential report that includes             <ul style="list-style-type: none"> <li>o A summary of work conducted to date</li> <li>o Methods, results and analysis (with confidential ALMCA knowledge removed)</li> <li>o Recommendations for future years' implementation</li> </ul> </li> <li>- Development of any other communications as outlined in the communications plan</li> <li>- Submit funding reporting as required</li> </ul>
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10.2 Describe how changes in environmental Condition will be assessed \*

<p>By piloting ALMCA Aquatic Monitoring Program, ALMCA will be able to use both scientific evidence and traditional knowledge-based observations, to determine the relationships between local environmental conditions and anthropogenic changes related to oil sands development. Though details are still being confirmed through ongoing work in 2021-22, the project will focus on the key features related to the environmental condition of aquatic resources including species abundance, condition, distribution, and habitat integrity (and other values indicated through the roundtable discussions in Fall 2021). Specifications related to the monitoring approach of the ALMCA Aquatic Monitoring Program are expected to be developed based on best practice methodologies for environmental condition assessments per the program guide (to be completed in February 2022).</p>
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10.3 Are There Benchmarks Being Used to Assess Changes in Environmental Condition? If So, Please Describe, If Not, State "NONE" \*

<p>Benchmarks are anticipated to be used for data analysis as part of this workplan. Details on what those benchmarks will be available after roundtable discussions with ALMCA members and AEP experts and completion of the program guide from the 2021-22 work plan. These benchmarks will feed directly into the ALMCA Aquatic Monitoring Program and are anticipated to be modified/clarified as needed in future years as the program is further refined and developed.</p>
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(e.g., objectives, tiers, triggers, limits, reference conditions, thresholds, etc.)

10.4 Provide a Brief Description of the Western Science or Community-Based Monitoring Indigenous Community-Based Monitoring Methods by Project Phase \*

<p>Phase 1: Launch of the ALMCA Aquatic Monitoring Program The launch of monitoring is informed by the program guide that is anticipated to be completed in</p>
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February 2022. To develop the program guide, ALMCA is working AEP and non-governmental scientists to ensure proposed monitoring techniques follow Standard Operating Procedures / Best Practice, including any Alberta and federal guidelines, ICBM SOPs, and include peer review by field experts and community verification with ALMCA members. ALMCA will use the program guide to determine the priority methods that will be piloted in the proposed workplan. During this phase, ALMCA staff implementing the ALMCA Aquatic Monitoring Program will receive training through collaboration with the ICBMAC to gather and analyse data for piloting the aquatic monitoring program.

#### Phase 2: Data Collection and Analysis

Details on the specific methods will be confirmed after the 2021-22 project year, particularly through the development of the program guide. We can anticipate the use of both western and ICBM methods as the project aims to collect data following SOP/Best practices, provincial and federal guidelines, as well as ALMCA data collection protocols for ALMCA knowledge and engagement with community. Data collected and analysis is anticipated to include information that can be shared with the OSM program data per outlined in the program guideline and complementary ALMCA-specific indicators to address key data gaps.

#### Phase 3: Reporting

Using the analysis conducted in Phase 2, ALMCA is proposing to draft two reports to summarize information from the pilot and suggest recommendations/directions for future monitoring. One will be developed for the community that will include culturally sensitive information, and follow ALMCA protocols. The second report will be a publicly available report with culturally sensitive information removed. Both reports will summarize information and analysis from both western science and Indigenous knowledge.

#### 10.5 List the Key Indicators Measured, If Not Applicable, State N/A \*

As the program guide is not yet developed, the final list of key indicators are yet to be determined until February 2022. However, as the indicators will be developed through roundtable discussions with ALMCA members and AEP experts in Fall 2021, it is anticipated they will align with the ICBM Conceptual Model (Dersch and ICBMAC 2020) for culturally relevant oil sands development indicators, which may include harvesting, consumption/use, and sharing of traditional resources. For example, for the monitoring of fish resources indicators may include flesh firmness, taste, body condition (presence of parasites/cysts), and harvest success rates.



## 11.0 Knowledge Translation

*In the space below, please provide the following:*

- Describe the plan for knowledge transfer and distribution of learnings from the project. This could include workshops, publications, best practice documentation, marketing plan, etc.
- Demonstrate that the knowledge transfer plan is appropriate for the intended end-users.

Through the 2021-22 workplan ALMCA as committed to develop a program guide that summarizes the findings from the roundtable discussions, supported with additional data collection from ALMCA members to address any identified gaps to be peer reviewed, designed, published, and shared (both externally and within ALMCA membership). As the program guide is the foundation of the aquatic monitoring program that is proposed to be piloted in the 2022-23 workplan, a communications plan outline is anticipated to guide information sharing between ALMCA and OSM. By piloting the aquatic monitoring program in this proposed workplan, ALMCA will provide information and reporting that encompasses OSM Program data requirements to support integration of data into the OSM Program data management system, including a consideration of OSM timelines (e.g., data submissions to the OSM Program Office by end of the calendar year) and annual reporting requirements.

ALMCA staff leading the fieldwork will also be provided an opportunity to receive training by the ICBM to conduct relevant methods to the ALMCA Aquatic Monitoring program prior to conducting data collection, analysis, and reporting.

ALMCA is proposing to develop two reports from this pilot year: one that will include culturally sensitive information and analysis that will be available for ALMCA community members, and another publicly available report that can be shared with external partners such as OSM. These reports will provide a summary of the project history, methods, data, analysis, and recommendations for future implementations of the ALMCA Aquatic Monitoring Program.

## 12.0 External Partners

List by project or project phase each component that will be delivered by an external party (including analytical laboratories) and name the party. Describe and name the associate work plan/grant/contract for these services. \* state none if not required

External partners are anticipated to support throughout the workplan. However, exact details on which external expertise will be refined after the program guide is developed in February 2022. It is therefore not possible to identify the exact names of partners and their roles at this time. As a result, the sections below represent a non-exhaustive list of potential partners that will be refined after the 2021-22 workplan and early on in phase 1 of the 2022-23 workplan:

### Phase 1

- Contractors to support general program coordination (e.g. engaging partners, support any communication activities detailed in the program guide)

### Phase 2

- Contractors for technical support (fieldwork, data analysis)
- Laboratory analysis as needed for water quality, biological samples, etc

### Phase 3

- Contractors to support report writing

ALMCA may also seek external partners for the implementation of the Aquatic Monitoring Program from AEP scientists and other non-governmental experts, as needed.

\*To ensure complete work plan proposal submission, all grants and contracts listed in this section should also be captured in Grants & Contracts.



## 13.0 Data Sharing and Data Management

For 2022-23 the following approach will be taken by the OSM Program related to data sharing.

For all work plans of a **western science** nature funded under the OSM Program, data sharing is a condition of funding and must align with the principle of "**Open by Default**". In this case, all data is to be shared with the OSM Program as directed by the OSM Program Data Management work plan.

For all work plans involving **Indigenous Knowledge** as defined below and funded under the OSM Program, data sharing is a condition of funding and the Indigenous Knowledge components of the work plan must align with the principle of "**Protected by Default**". In this case, all data as defined as Indigenous Knowledge, are to be retained by the Indigenous community to which the Indigenous Knowledge is held.

*Indigenous Knowledge is defined as:*

"The knowledge held by First Nations, Inuit and Métis peoples, the Aboriginal peoples of Canada. Traditional knowledge is specific to place, usually transmitted orally, and rooted in the experience of multiple generations. It is determined by an Aboriginal community's land, environment, region, culture and language. Traditional knowledge is usually described by Aboriginal peoples as holistic, involving body, mind, feelings and spirit. Knowledge may be expressed in symbols, arts, ceremonial and everyday practices, narratives and, especially, in relationships. The word tradition is not necessarily synonymous with old. Traditional knowledge is held collectively by all members of a community, although some members may have particular responsibility for its transmission. It includes preserved knowledge created by, and received from, past generations and innovations and new knowledge transmitted to subsequent generations. In international or scholarly discourse, the terms traditional knowledge and Indigenous knowledge are sometimes used interchangeably."

*This definition was taken from the Canadian Government's Tri-council Policy Statement for Ethical Research involving Humans (Chapter 9, pg. 113) and is an interim definition specific to the Oil Sands Monitoring Program.*

**Data Sharing and Data Management** *Continued*

13.1 Has there, or will there be, a Data Sharing Agreement established through this Project? \*

YES

13.2 Type of Quantitative Data Variables:

Both

13.3 Frequency of Collection:

Other

13.4 Estimated Data Collection Start Date:

2022-05-01

13.5 Estimated Data Collection End Date:

2022-11-30

13.6 Estimated Timeline For Upload Start Date:

2022-09-05

13.7 Estimated Timeline For Upload End Date:

2023-02-24

13.8 Will the data Include traditional knowledge as defined by and provided by an Indigenous representative, Community or Organization?

YES

**TABLE 13.9 Please describe below the Location of Data and Data Type:**

*Add a Data Source by clicking on the table and then clicking on the blue "+" symbol on the bottom right side of table*

Name of Dataset	Location of Dataset (E.g.: Path, Website, Database, etc.)	Data File Formats (E.g.: csv, txt, API, accdb, xls, etc.)	Security Classification
ECCC Funded Community Monitoring Database (incl. geo-referenced photographs and notes of traditional knowledge-based observations)	ALMCA Database	N/A	Protected by Default

## 14.0 2022/23 Deliverables

Add an additional deliverable by clicking on the table and then clicking on the blue "+" symbol on the bottom right side of table.

Type of Deliverable	Delivery Date	Description
Technical Report	Q4	Provided by contractor: technical report from data analysis from western-science data
Other (Describe in Description Section)	Q4	An ALMCA members-only document summarizing the pilot year of the aquatic monitoring program. May include results from data analysis and recommendations for future years
Public Dissemination Document	Q4	A public document summarizing the pilot year of the aquatic monitoring program without culturally sensitive information. May include results from data analysis and recommendations for future years
OSM Program Annual Progress Report (required)	Q4	Funding report as needed

## 15.0 Project Team & Partners

In the space below please provide information on the following:

- Describe key members of the project team, including roles, responsibilities and expertise relevant to the proposed project.
- Describe the competency of this team to complete the project.
- Identify any personnel or expertise gaps for successful completion of the project relative to the OSM Program mandate and discuss how these gaps will be addressed.
- Describe the project management approach and the management structure.

### Diane Scoville – Project Manager

Diane Scoville achieved a diploma in Business Administration from Portage College in 2010. She was elected Vice President of the MNAA Region 1 in 2010, a position she held for 4 years. Diane was then elected in 2014 as the President of the MNAA Region 1, where she served the communities for an additional 4 years. As an elected official and Community Facilitator, Diane has spent over a decade built meaningful relationships with Industry and Government, and has attained various grant programs and environmental studies for the Region. During her term as MNAA President, Diane was the representative for the Oil Sands Monitoring (OSM) program.

Diane has been a Consultant and Community Facilitator for the Athabasca Landing Métis Community Association since 2019. Diane is also a facilitator for the Athabasca Métis Local 2010 in the Environmental and Climate Change Canada Program (ECCC), a position she's held for the past 2 years.

Diane also assists various Métis communities in the Northeastern Region as organizational support, which includes chairing various meetings, and offering her services such as a Commissioner of Oaths. Currently, she is the Chair of the Alberta Métis Federation.

Diane is a Traditional Knowledge Holder and has coordinated and participated in many Traditional Land Use studies, Diane continues to live and practice her Métis rights in her everyday life.

### Virginia Donald – Support Staff

Harvester, Traditional Knowledge/storyteller/Elder, Virginia was born and raised in Athabasca, Alberta, her family lived off the land as there were no roads out to the lake where they lived. The family's main food source came from the land. It consists of many animals and chickens. As a child, they were taught how to read the bush, and track many animals for food. They picked berries of any kind for winter supplies, along with many roots and barks for medicinal purposes. In the spring they would tap the birch trees for the juice to make syrup, her dad would go find the bees nests and take the honey. As a family, they all helped my mother in the garden so there were vegetables and potatoes for winter. She would watch her mother pick all the seeds of the vegetables for the next year to plant. Later in life, her traditional knowledge came in handy as a young wife. She carried down the tradition that her mother and dad taught her, how to preserve all the vegetables and meat for winter. She felt very much like a beaver storing wood and cutting trees down for winter. Also, her maiden name was Virginia Beaver and she was proud to be part of the Beaver Clan. The Knowledge she has from living of the land is priceless and she is proud to hand it down to her children and Grandchildren.

Virginia has been involved with the Metis since 1974, and later in the Athabasca Landing Metis Local 2010 and the Athabasca Landing Metis Community Association, she is very active in the ECCC program which has been ongoing for the past 2 years, and will be starting year 3 in April 2021.

### Ron Donald – ALMCA President and Project Reviewer

Ron is the President of the Metis Local 2010 and the Athabasca Landing Metis Community Association, Ron has been involved with the Metis Nation since 1974, he served as President for the

Local Metis in Athabasca for 8 years. His family was involved with the Metis and helped to protect the land in their area. He ran for President of the Metis Local 2010 in 2014 and was successful. Ron to date still lives off the land and takes part as a land keeper. He is harvester, Traditional Knowledge holder/Elder, Ron was born and raised and lived in a little place called Donatville Alberta it was located between Lac La Biche and Boyle Alberta. The family had a homestead and lived off the land. As a child he helped with the work on the farm, his father taught Ron how to hunt as a young boy in order to keep food on the table. Many different kinds of berries were picked for the winter. His mom and Dad would hook up the horses and wagon, pack the bedding, lunch, pails and go out to find berries. They had to go where the berries were, and sometimes we would travel for miles. Many roots, trees and plants were picked for medicinal purposes; they would cut the pitch and gum of the spruce trees. The family would cut trees all year and pile to dry. The wood they harvested would be for heating the house and barn. Everything they ate and used for life came from the land. As a married man he and his wife Virginia and still lived off the land today. They have taught their children many skills and traditions and how to respect the land because that is their source of food and medicines. My family plants a garden every year and harvests many vegetables.

ALMCA Field Crew (various people)

ALMCA has a crew of 6-8 people identified who have the ability and knowledge to conduct/engage in training to implement the fieldwork required. These folks have a variety of experience participating or leading field assessments. The specific people and number of people will depend on the priorities identified in the program guide that is anticipated to be completed in February 2022. The Project Manager will provide operational oversight for the ALMCA field crew

Program Coordination/Writing Support (Contractor, Vacant)

ALMCA will seek a contractor to support the general coordination of the project, including fieldwork and communications outlined in the program guide (to be completed in February 2022) and development of project deliverables beyond technical writing. This person will report directly to the Program Manager.

Technical Support Contractor (Vacant)

ALMCA will seek out a contractor to support ALMCA field crew during field assessments, conduct data analysis and support technical report writing. This person will report directly to the Program Manager.



## 16.0 Project Human Resources & Financing

### Section 16.1 Human Resource Estimates

Building off of the competencies listed in the previous section, please complete the table below. Add additional rows as necessary. This table must include **ALL staff involved** in the project, their role and the % of that staff's time allocated to this work plan. The AEP calculated amount is based on an estimate of \$120,000/year for FTEs. This number cannot be changed. The OSM program recognizes that this is an estimate.

#### Table 16.1.1 AEP

Add an additional AEP Staff member by clicking on the table and then clicking on the blue "+" symbol on the bottom right side of table. The total FTE (Full Time Equivalent) is Auto Summed (in Table 16.2.1) and converted to a dollar amount.

Name (Last, First)	Role	% Time Allocated to Project
Click or tap here to enter text.	Click or tap here to enter text.	0%

#### Table 16.1.2 ECCC

Add an additional ECCC Staff member by clicking on the table and then clicking on the blue "+" symbol on the bottom right side of table. The total FTE (Full Time Equivalent) is Auto Summed in Table 16.2.2

Name (Last, First)	Role	% Time Allocated to Project
Click or tap here to enter text.	Click or tap here to enter text.	0%



The tables below are the financial tables for Alberta Environment & Parks (AEP) and Environment & Climate Change Canada. All work plans under the OSM Program require either a government lead or a government coordinator.

### Section 16.2 Financing

The OSM Program recognizes that many of these submissions are a result of joint effort and monitoring initiatives. A detailed "PROJECT FINANCE BREAKDOWN" must be provided using the Project Finance Breakdown Template provided, accessible here (ctrl + click the link below). Please note that completion of this Project Finance Breakdown Template is mandatory and must be submitted along with each workplan.

## [PROJECT FINANCE BREAKDOWN TEMPLATE \(CTRL+CLICK HERE\)](#)

**Table 16.2.1 Funding Requested BY ALBERTA ENVIRONMENT & PARKS**

Organization – Alberta Environment & Parks ONLY	Total % time allocated to project for AEP staff	Total Funding Requested from OSM
<b>Salaries and Benefits</b> <i>(Calculated from Table 16.1.1 above)</i>	<b>0.00%</b>	<b>\$0.00</b>
<b>Operations and Maintenance</b>		
Consumable materials and supplies		\$0.00
Conferences and meetings travel		\$0.00
Project-related travel		\$0.00
Engagement		\$0.00
Reporting		\$0.00
Overhead		\$0.00
<b>Total All Grants</b> <i>(Calculated from Table 16.4 below)</i>		<b>\$311,075.00</b>
<b>Total All Contracts</b> <i>(Calculated from Table 16.5 below)</i>		<b>\$0.00</b>
<b>Sub- TOTAL</b> <i>(Calculated)</i>		<b>\$311,075.00</b>
Capital*		\$0.00
<b>AEP TOTAL</b> <i>(Calculated)</i>		<b>\$311,075.00</b>

\* The Government of Alberta Financial Policies (Policy # A600) requires that all **capital asset** purchases comply with governmental and departmental legislation, policies, procedures, directives and guidelines. **Capital assets** (Financial Policy # A100, Government of Alberta, January 2014) are tangible assets that: have economic life greater than one year; are acquired, constructed, or developed for use on a continuing basis; are not held for sale in ordinary course of operations; are recorded and tracked centrally; have a cost greater than \$5,000.

Some **examples of capital asset equipment include:** laboratory equipment, appliances, boats, motors, field equipment, ATV's/snowmobiles, stationary equipment (pier/sign/weather), fire/safety equipment, pumps/tanks, heavy equipment, irrigation systems, furniture, trailers, vehicles, etc. (Financial Policy # A100, Government of Alberta, January 2014).

**Table 16.2.2 Funding Requested BY ENVIRONMENT & CLIMATE CHANGE CANADA**

Organization – Environment & Climate Change Canada ONLY	Total % time allocated to project for ECCC staff	Total Funding Requested from OSM
<b>Salaries and Benefits FTE</b> <i>(Please manually provide the number in the space below)</i>		
Salaries and Benefits		\$0.00
<b>Operations and Maintenance</b>		
Consumable materials and supplies		\$0.00
Conferences and meetings travel		\$0.00
Project-related travel		\$0.00
Engagement		\$0.00
Reporting		\$0.00
Overhead		\$0.00
<b>ECCC TOTAL</b> <i>(Calculated)</i>		<b>\$0.00</b>

\* ECCC cannot request capital under the OSM program. Any capital requirements to support long-term monitoring under the OSM program should be procured by Alberta and captured in that budget table.

**Table 16.3**

**Complete ONE table per Grant recipient.**

*Add a Recipient by clicking on the table and then clicking on the blue "+" symbol on the bottom right side of table. The total of all Grants is Auto Summed in Table 16.2.1*

GRANT RECIPIENT - ONLY: Name	Diane Scoville
GRANT RECIPIENT - ONLY: Organization	Athabasca Landing Métis Community Association
<b>Category</b>	<b>Total Funding Requested from OSM</b>
Salaries and Benefits	\$185,500.00
<b>Operations and Maintenance</b>	
Consumable materials and supplies	\$30,000.00
Conferences and meetings travel	\$0.00
Project-related travel	\$16,000.00
Engagement	\$0.00
Reporting	\$39,000.00
Overhead	\$40,575.00
GRANT TOTAL <i>(Calculated)</i>	<b>\$311,075.00</b>

**Table 16.4**

**Complete ONE table per Contract recipient.**

*Add a Recipient by clicking on the table and then clicking on the blue "+" symbol on the bottom right side of table. This section is only to be completed should the applicant intend to contract components or stages of the project out to external organizations. The total of all Contracts is Auto Summed in Table 16.2.1*

CONTRACT RECIPIENT - ONLY: Name	Click or tap here to enter text.
CONTRACT RECIPIENT - ONLY: Organization	Click or tap here to enter text.
<b>Category</b>	<b>Total Funding Requested from OSM</b>
Salaries and Benefits	\$0.00
<b>Operations and Maintenance</b>	
Consumable materials and supplies	\$0.00
Conferences and meetings travel	\$0.00
Project-related travel	\$0.00
Engagement	\$0.00
Reporting	\$0.00
Overhead	\$0.00
CONTRACT TOTAL <i>(Calculated)</i>	<b>\$0.00</b>

**Table 16.5 GRAND TOTAL Project Funding Requested from OSM Program**

The table below is auto calculated, please do not try to manually manipulate these contents.

Category	Total Funding Requested from OSM
<b>Salaries and Benefits</b> <i>Sums totals for salaries and benefits from AEP and ECCC ONLY</i>	\$0.00
<b>Operations and Maintenance</b>	
<b>Consumable materials and supplies</b> <i>Sums totals for AEP and ECCC ONLY</i>	\$0.00
<b>Conferences and meetings travel</b> <i>Sums totals for AEP and ECCC ONLY</i>	\$0.00
<b>Project-related travel</b> <i>Sums totals for AEP and ECCC ONLY</i>	\$0.00
<b>Engagement</b> <i>Sums totals for AEP and ECCC ONLY</i>	\$0.00
<b>Reporting</b> <i>Sums totals for AEP and ECCC ONLY</i>	\$0.00
<b>Overhead</b> <i>Sums totals for AEP and ECCC ONLY</i>	\$0.00
<b>Total All Grants (from table 16.2.1 above)</b> <i>Sums totals for AEP Tables ONLY</i>	\$311,075.00
<b>Total All Contracts (from table 16.2.1 above)</b> <i>Sums totals for AEP Tables ONLY</i>	\$0.00
<b>Sub- TOTAL</b>	\$311,075.00
<b>Capital*</b> <i>Sums total for AEP</i>	\$0.00
<b>GRAND PROJECT TOTAL</b>	\$311,075.00

Some **examples of capital asset equipment include:** laboratory equipment, appliances, boats, motors, field equipment, ATV's/snowmobiles, stationary equipment (pier/sign/weather), fire/safety equipment, pumps/tanks, heavy equipment, irrigation systems, furniture, trailers, vehicles, etc. (*Financial Policy # A100, Government of Alberta, January 2014*).

## 17.0 FINANCIAL MANAGEMENT

**The OSM Program reserves the right to reallocate project funding during the current fiscal year on the basis of project performance and financial overspend or underspend.**

Please check this box to acknowledge you have read and understand

**In the space below please describe the following:**

- Discuss how potential cost overruns and cost underruns will be managed.
- If this is a continuing project from last year, identify if this project was overspent or underspent in the previous year and explain why.
- Describe what risks and/or barriers may affect this project.

ALMCA will manage the project in a fiscally responsible and transparent manner, including required reporting on progress and budget expenditures. ALMCA monthly internal financial tracking will be undertaken by Diane Scoville, Project Manager, as well as an annual audit from ALMCA's professional accountant.

Barriers and risks that may impact the project include the ongoing COVID-19 pandemic. The health and safety of ALMCA members and field crew are paramount and ALMCA will use health and safety standards for all fieldwork.



## 18.0 Alternate Sources of Project Financing – In-Kind Contributions

Table 18.1 In-kind Contributions

Add an In Kind Contribution by clicking on the table and then clicking on the blue "+" symbol on the bottom right side of table.

DESCRIPTION	SOURCE	EQUIVALENT AMOUNT (\$CAD)
Click or tap here to enter text.	Click or tap here to enter text.	\$0.00
<b>TOTAL</b>		<b>\$0.00</b>



## 19.0 Consent & Declaration of Completion

**Lead Applicant Name**

Diane Scoville

**Title/Organization**

Project Manager / Athabasca Landing Métis Community Association

**Signature**

Signature include in supplementary material #4.

**Date**

2021-10-05

**Government Lead / Government Coordinator Name** (if different from lead applicant)

Click or tap here to enter text.

**Title/Organization**

Click or tap here to enter text.

**Signature**

Click or tap here to enter text.

**Date**

Click or tap to enter a date.





## PROGRAM OFFICE USE ONLY

### **Governance Review & Decision Process**

*this phase follows submission and triggers the Governance Review*

**TAC Review (Date):**

Click or tap to enter a date.

**ICBMAC Review (Date):**

Click or tap to enter a date.

**SIKIC Review (Date):**

Click or tap to enter a date.

**OC Review (Date):**

Click or tap to enter a date.

**Final Recommendations:**

**Decision Pool:**

Choose an item.

**Notes:**

Click or tap here to enter text.

### **Post Decision: Submission Work Plan Revisions Follow-up Process**

*This phase will only be implemented if the final recommendation requires revisions and follow-up from governance*

**ICBMAC Review (Date):**

Click or tap to enter a date.

**SIKIC Review (Date):**

Click or tap to enter a date.

**OC Review (Date):**

Click or tap to enter a date.

**Comments:**

**Decision Pool:**

Choose an item.

**Notes & Additional Actions for Successful Work Plan Implementation:**

Click or tap here to enter text.