

2018-19 Work Plan Template

All fields with an * are mandatory

Project Description Summary			Co-Chair Decision (March 8, 2018)
Date *	Project/Work Plan Identifier (if applicable)	Program Type and Strategic Alignment *	<p>* Decision Pool A: Workplan approved. * Approved at \$35,250</p> <p>* This project was underspent in 2017/18. Quarterly updates on expenditures and accurate forecasts for 18/19 are required.</p> <p>* Approval for 18-19 does not constitute an ongoing commitment in subsequent years</p> <p>* Noted that this project has been proposed for the previous two years, but for several valid reasons has not been delivered. The progress of this project will be tracked through each quarter of 18/19. If the project is unable to proceed, funding will be withdrawn due to the need to fund other priorities in the Oil Sands Monitoring Program.</p> <p>* Funding expectations: as a minimum an annual progress report is required by February 28, 2019. All publications or products resulting from this work requires acknowledgement of funding from the Oil Sands Monitoring Program and are to be provided to the Oil Sands Monitoring Secretariat for tracking and any programmatic communications purposes. Work funded through the Oil Sands Program will be available for public dissemination.</p>
21/12/2017	A-IC-1-1819	OSM - Focus Study	
Program Category *	Status *	Dept. ID	
Air/Atmosphere/Climate	Existing Project	1104 - 03418	
Project Leadership / Contact information			
Project Title *	Key Words (max 10) *		
Ambient Air Quality Surveillance: Beaver River Valley	Air quality, Beaver River Valley, Cold Heavy Oil Production with Sand (CHOPS), River Valley Flow		
Surname *	Given Name *	Title *	
Myrick	Bob	Director, Airshed Sciences	
Organization *	Department	Division	
Alberta Provincial	Alberta Environment and Parks	Environmental Monitoring and Science	
Branch *	Section/Unit (if applicable)	Phone *	
Science	Airshed Sciences	7802297290	
Email *	Mailing Address	City	
Bob.Myrick@gov.ab.ca	9888 Jasper Avenue	Edmonton	
Postal Code	EMSD Executive Owner (If Applicable)		
T5J 5C6	Bill Donahue		
Project Information			
Project Objective(s) (Bullet Form) *	The primary objective of the Beaver River Valley air monitoring study is to determine if drainage flows of air pollutants from CHOPS facilities into the river valley are causing degraded air quality.		
Plain Language Overview (100 words) *	The rationale for this study is anecdotal evidence from community members that air emissions from CHOPS facilities are degrading air quality in the Beaver River Valley. Hence, Lakeland Industry and Community Association (LICA) stakeholders would like to investigate the potential for poor air quality in the Beaver River valley. There is concern that atmospheric emissions from CHOPS facilities may be draining into the valley, accumulating, and then flowing down-valley.		
Project Duration *	Project Original Start Date *	Estimated Completion Date *	
Multi-Year	1/6/2017	31/03/2021	
Specify Objectives This Project Will Address in 2018/2019. *	The specific objective to be addressed in 2018-19 is to determine the frequency and conditions under which air from the CHOPS facilities could be transported into and along the Beaver River Valley. This will be achieved by the deployment of meteorological instrumentation.		
Specify Objectives This Project Will Address Beyond 2018/19 (if multi-year). *	The specific objective to be addressed in 2019-20 is to assess air quality in the Beaver River Valley if the monitoring in 2018-19 shows that meteorological conditions are favourable for transport of pollutants from CHOPS facilities along the river valley. If necessary, this will be achieved by supplementing the meteorology instrumentation with appropriate air quality instrumentation to simultaneously measure meteorology and air pollutants of concern.		
List Key Questions/Hypotheses Related to Each Objective Stated Above. *	The hypothesis for this study is: air emissions from cold heavy oil production with sand (CHOPS) facilities are degrading air quality in the Beaver River Valley via transport associated with river valley flow drainage.		
Main Assumptions, Constraints, Dependencies. *	<ul style="list-style-type: none"> - Contracts with airshed organizations can be executed by April 1, 2018 - LICA will have the expertise, resources and ability to deliver the monitoring program. This project has been approved in previous years but LICA has been unable to execute the required monitoring. LICA will be working with AEP and WBEA in 2018-19 to assure that this monitoring project is executed. See line 100 for more details. 		
Partner Categories (select all that apply) * A partner is an individual, group, agency, community etc. that is an active participant in the project and in achieving the project deliverables.	Knowledge System *	Location (select all that apply) *	
<input type="checkbox"/> Federal Government <input type="checkbox"/> Another AEP Division <input type="checkbox"/> Another GoA Department <input type="checkbox"/> University/Academic Institution <input type="checkbox"/> Solely delivered by GoA <input type="checkbox"/> Citizen Science <input type="checkbox"/> Indigenous Community or Organization <input type="checkbox"/> ENGO <input checked="" type="checkbox"/> Other	Classical Science	<input type="checkbox"/> Office or Laboratory <input type="checkbox"/> Sub-regional <input type="checkbox"/> Transboundary (provincial/territorial) <input type="checkbox"/> Lower Peace Region <input type="checkbox"/> Upper Peace Region <input type="checkbox"/> North Saskatchewan Region <input type="checkbox"/> Red Deer Region <input checked="" type="checkbox"/> Lower Athabasca Region <input type="checkbox"/> Upper Athabasca Region	
AEP ONLY: Strategic Alignment to EMSD Outcomes			
AEP ONLY: Strategic Alignment to EMSD Science Plan, select 1-2 areas that apply (if Applicable)			
Human Relationship with the Environment			
Choose one			
AEP ONLY: Strategic Alignment to AEP Departmental Outcomes			
AEP ONLY: Environmental and Ecosystem Health and Integrity	AEP ONLY: Sustainable Economic Diversity	AEP ONLY: Social Well-Being	
Air/Climate Change	No	Yes	
AEP ONLY: Protected Public Health and Safety from Environmental			
No			

<p>AEP ONLY: IMAG/IMSC Information Needs, Please Specify Which Need(s) is Being Addressed. File location M:\EMSD\Common\Portfolio Mgmt System Shared Docs</p>	<p>Info Need 10 (Airshed and Watershed Support): The Beaver River Valley project is in response to a local issue identified through the LICA airshed. The intent is to investigate the cause of air quality issues in the river valley potentially caused by CHOPS facilities.</p>
<p>AEP ONLY: How This Project Will Address Each Strategic Theme Selected Above.</p>	<p>Social Well Being: Air quality has not been monitored in the Beaver River Valley to date. Preliminary information is needed to determine if people living in the Beaver River Valley are potential exposed to air pollutants.</p>
<p>Project Methodology</p>	
<p>List the Key Project Phases and Provide Bullets for Each Major Task Under Each Project Phase. *</p>	<p>Phase 1 – Determine the frequency and meteorological conditions under which air from the CHOPS facilities could be transported into and along the Beaver River Valley (Jun 2018 – May 2019 campaign). Phase 2 – If river valley flow drainage is occurring regularly, then an air quality assessment component will be added (Jun 2019 – May 2020 campaign).</p>
<p>Describe How Changes in Environmental Condition Will Be Assessed. *</p>	<p>Changes in the environment will be assessed by analyzing spatial, seasonal and daily patterns in air movements around and in the river valley to determine the prevalence and temporal patterns of river valley drainage flows.</p>
<p>Are There Benchmarks (e.g., objectives, tiers, triggers, limits, reference conditions, thresholds, etc.) Being Used to Assess Changes in Environmental Condition? If So, Please Describe, if Not, State "NONE". *</p>	<p>Phase one - there are no objectives for meteorological parameters. Phase two - air quality will be assessed against Alberta Ambient Air Quality Objectives where appropriate.</p>
<p>Provide a Brief Description of the Methods By Project Phase. *</p>	<p>Phase 1 – Determine the frequency and meteorological conditions under which air from the CHOPS facilities could be transported into and along the Beaver River Valley (Jun 2018 – May 2019 campaign). Standard meteorological equipment will be deployed at a site in the valley for at least one year to measure hourly averages of various meteorological parameters (e.g. wind speed, wind direction, air temperature, relative humidity). This data will be used to assess the frequency and temporal patterns of drainage flows occurring from the area of the CHOPS facilities. Phase 2 – If river valley flow drainage is occurring regularly, then an air quality assessment component will be added (Jun 2019 – May 2020 campaign). Standard air quality monitors for THC, CH₄, NMHC, SO₂, O₃, NO₂ and PM_{2.5} mass would be deployed alongside the meteorological equipment for at least an additional year. Speciated VOCs may also be monitored when elevated hydrocarbon concentrations are measured.</p>
<p>List the Key Indicators Measured. *</p>	<p>Phase 1 - wind speed, wind direction, air temperature, relative humidity Phase 2 - hydrocarbons (THC, CH₄, NMHC), SO₂, O₃, NO₂ and PM_{2.5} mass. Speciated VOCs may also be monitored when elevated hydrocarbon concentrations are measured.</p>
<p>Describe Sample Handling Procedures, if Not Applicable, State N/A. *</p>	<p>N/A</p>
<p>List SOPs that Will Be Used, if Not Applicable, State N/A. *</p>	<p>In Phase 1, meteorology will be measured in accordance with the Air Monitoring Directive. In Phase 2, air quality parameters will be measured in accordance with the Air Monitoring Directive.</p>
<p>Describe the QA/QC Plan, if Not Applicable, State N/A. *</p>	<p>Quality assurance and quality control needs to be conducted in accordance with the Air Monitoring Directive and SOPs for data QA/QC developed by AEP and each airshed. Specific quality assurance plans are available from AEP and each airshed.</p>
<p>Describe How Indigenous Communities are Involved in the Project Design, Data Collection, and Analysis (Knowledge Co-creation) and How is their Consent Sought. If Not Applicable, State N/A. *</p>	<p>Indigenous communities are involved through inclusion in LICA.</p>
<p>Components Delivered by Others</p>	
<p>List by Project or Project Phase Each Component That Will Be Delivered by An External Party (including analytical laboratories) and Name the Party. State None if Not Required. *</p>	<p>All monitoring in this project plan is delivered by the Lakeland Industry and Community Association (LICA). WBEA will provide assistance in data telemetry.</p>
<p>Will These Components be Delivered Under Grant or Contract or Both? Please Describe and Name the Associate Work Plan/Grant/Contract for These Services if Not Included Within This Work Plan. *</p>	<p>All monitoring in this project plan is delivered by LICA through a contract with AEP.</p>
<p>Monitoring Site Locations and Coordinates (for all sites, please add them to the Monitoring Site Location tab - a separate excel sheet)</p>	
<p>Attach Map of Locations. Distinguish Indicators by Station if Necessary. Distinguish Sampling Frequency by Station if Necessary.</p>	<p>A map of the station location is shown in "Beaver River Valley Map" tab. Note that the monitoring location will be finalized in the early spring.</p>
<p>Project Schedule</p>	

FOR OIL SANDS MONITORING PROJECTS ONLY: A coordinated field monitoring schedule for the OSM Program is required. Please complete the attached document named "OSM Program Field Monitoring Schedule" in addition to this work plan. Fill as much as you can recognizing that scheduling changes will occur and the scheduling document will be updated regularly. Please note the scheduling document will be shared with stakeholders.	Monitoring is intended to begin in spring of 2018 at the location indicated in the "Monitoring Site Locations" tab. Monitoring will be continuous at this location.	
FOR OIL SANDS MONITORING PROJECTS ONLY: Have You Coordinated With Other Project Leads On Field Logistics? If So, Please Specify. *	Monitoring field logistics are coordinated by LICA.	
Other		
Additional Details.	<p>While the concept and information need for the Beaver River Valley study has remained a priority for LICA stakeholders, a lack of resources (human) prevented LICA from executing the project plan in previous years. By securing a Data and Reporting Specialist, a number of functions and priorities have been properly resourced including:</p> <ul style="list-style-type: none"> o Development and implementation of a quality assurance plan and updated standard operating procedures compliant with new AMD requirements o Stream-lining data and reporting tasks associated with the new LICA website o Implementation of improved processes for scrutiny of daily, monthly, and annual data <p>With these and other data and reporting functions handled by dedicated and qualified staff, the Monitoring Programs Manager is able undertake more strategic projects including the Beaver River Valley study, long-term canister data analysis, and monitoring network renewal.</p> <p>The Wood Buffalo Environmental Association is able to provide assistance in setting up the Beaver River Valley site telemetry and remote data access. LICA has determined that minimal field time will be required once the equipment is deployed and it can largely be handled in-house given LICA's ownership of the DR. DAS system.</p>	
Will Capacity Building and Training be a Component of the Project and If So, Explain How. If Not, State N/A.*	N/A	
Environmental Impact and Considerations.	N/A	
Data Management and Digital Assets		
Will Data be Produced as a Result Of This Project? *	Type of Quantitative Data Variables	Frequency Of Collection
Yes	Continuous	Real time
Data Collection Period: Start Date - End Date	Timeline For Upload Period: Start Date - End Date	
June 1, 2018 to May 31, 2020	July 31, 2018 to June 30, 2020	
Is There a Data Sharing Agreement? (Yes or No).	No	
Will the Data Include Traditional Knowledge as Defined by and Provided by an Indigenous Representative, Community or Organization (Yes / No).	No	
Platform/Location of Data Storage.	www.lica.ca , Alberta Airdata	
Project Deliverables		
Proposed 2018-19 Deliverable Type (for each deliverable outline document, presentation, meeting, etc.)		
<input type="checkbox"/> Peer-reviewed Journal Publication	<input type="checkbox"/> Peer-reviewed Conference Proceeding	<input type="checkbox"/> Non-peer reviewed Conference Proceeding
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	Q1 - Deliverable, Comments
Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	Q2 - Deliverable, Comments
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	Q3 - Deliverable, Comments
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	Q4 - Deliverable, Comments

<input type="checkbox"/> Technical Report	<input type="checkbox"/> Book Chapter	<input type="checkbox"/> Public Dissemination Document
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	Q1 - Deliverable, Comments
Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	Q2 - Deliverable, Comments
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	Q3 - Deliverable, Comments
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	Q4 - Deliverable, Comments
<input type="checkbox"/> Conference Presentation(s)	<input type="checkbox"/> Stakeholder Presentation	<input type="checkbox"/> Key Engagement/Participation Meeting *
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	Q1 - Deliverable, Comments
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	Q2 - Deliverable, Comments
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	Q3 - Deliverable, Comments
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	Q4 - Deliverable, Comments
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
<input type="checkbox"/> EMSD Strategic & Operational Publication	<input type="checkbox"/> Other Documents	
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	
Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	
Proposed Deliverables After 2018/2019 for the project funds received in 2018/2019		
<input type="checkbox"/> Peer-reviewed Journal Publication	<input type="checkbox"/> Peer-reviewed Conference Proceeding	<input type="checkbox"/> Non-peer reviewed Conference Proceeding
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	Q1 - Deliverable, Comments

Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	Q2 - Deliverable, Comments
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	Q3 - Deliverable, Comments
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	Q4 - Deliverable, Comments
<input checked="" type="checkbox"/> Technical Report	<input type="checkbox"/> Book Chapter	<input type="checkbox"/> Public Dissemination Document
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	Q1 - Deliverable, Comments
Meteorology Associated with Valley Flow Drainage in the Beaver River Valley		
Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	Q2 - Deliverable, Comments
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	Q3 - Deliverable, Comments
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	Q4 - Deliverable, Comments
The Influence of CHOPS Emissions on air quality in the Beaver River Valley (2020)		
<input type="checkbox"/> Conference Presentation(s)	<input type="checkbox"/> Stakeholder Presentation	<input type="checkbox"/> Key Engagement/Participation Meeting *
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	Q1 - Deliverable, Comments
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	Q2 - Deliverable, Comments
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	Q3 - Deliverable, Comments
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	Q4 - Deliverable, Comments
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
<input type="checkbox"/> EMSD Strategic & Operational Publication	<input type="checkbox"/> Other Documents	
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	

Q2 - Deliverable, Comments	Q2 - Deliverable, Comments
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments

All Completed Products if a multi-year project, specify all
 completed products to date (consistent format for the fields below). Add rows as required.

Journal Paper

Required Format: Author (follow APA citation format), Year, Title, Journal, Volume, Page Numbers, Open or Closed and Document Location
 Example: Jacoby, W. G. (1994). Public Attitudes Toward Government Spending. American Journal of Political Science, 38(2), 336-361.
 Fearon, J. D., & Laitin, D. D. (2003). Ethnicity, insurgency, and Civil War. American Political Science Review, 97(01), 75. doi: 10.1017/S0003055403000534

- 1)
- 2)
- 3)
- 4)
- 5)

Technical Report

Required Format: Author, Year, Title, Publisher Location, Name of Publisher, Publisher, Document Location
 Example: Author, F.M. (Publication Year). Title of Report (Report No. XXX). Publisher City, State: Publisher

- 1)
- 2)
- 3)
- 4)
- 5)

Book Chapter

Required Format: Author, Year, Title of Paper, Editors, Title of Book, Page Numbers, Location of Publisher, Name of Publisher, Document Location
 Example: Hemingway, E. (1999). The Killers. In J. Updike & K. Kenison (Eds.), The Best American Short Stories of the Century (pp.78-80). Boston, MA: Houghton Mifflin

- 1)
- 2)
- 3)
- 4)
- 5)

Conference Proceeding

Required Format: Author, Year, Title of Paper, Editors, Title of Proceedings, Name of Conference Location of Conference, Publisher Location, Name of Publisher, Document Location
 Example: Author of Paper, A., & Author of Paper, B. (Year, Month date). Title of Paper. In A. Editor, B. Editor, & C. Editor. Title of Published Proceedings. Paper Presented at Title of Conference: Subtitle of Conference, Location (inclusive page numbers). Place of Publication: Publisher.)

- 1)
- 2)
- 3)
- 4)
- 5)

Public Dissemination Document

Required Format: Author, Year, Title, Journal / Report, Volume, Publisher, Page Number, Number of Pages, Document Location

- 1)
- 2)
- 3)
- 4)
- 5)

AEP ONLY: EMSD Strategic and Operational Publication

Required Format: Author, Year, Title, Publisher Location, Name of Publisher, Publisher, Document Location

- 1)
- 2)
- 3)
- 4)
- 5)

Other Documents

Detailed Information of Other Documents

- 1)
- 2)

- 3)
- 4)
- 5)

Conference Presentation

Required Format: Presenter, Date, Location, Title, Platform or Poster, Conference Name

- 1)
- 2)
- 3)
- 4)
- 5)

Stakeholder Presentation

Required Format: Presenter, Date, Location, Title, Platform or Poster, Name of Meeting

- 1)
- 2)
- 3)
- 4)
- 5)

Key Engagement/Participation Meeting

Required Format: Meeting Host, Date, Location

- 1)
- 2)
- 3)
- 4)
- 5)

**Human Resources / Staffing Plan
(roles and responsibilities)**

Name & Role	Organization	Responsibilities
Mike Bisaga	Lakeland Industry and Community Association	LICA Project Leadership
Bob Myrick	Alberta Environment and Parks	AEP Project Administrator
Lucas Zhang	Alberta Environment and Parks	Data Analysis
Sanjay Prasad	Wood Buffalo Environmental Association	Monitoring Support and Advice

AEP ONLY: Additional Human Resources

Name & Role	Branch - Section	Estimated time (% of annual FTE)
Lucas Zhang	Science	20

Financial Details and Budget Request

Source of Funding Requested Year 1 - 2018/19

	AEP ONLY: EMSD	OSM
Salaries and Benefits - AEP Chargeback		\$24,000
Salaries and Benefits - New OSM Staff		\$0
Operations and Maintenance		
Consumable materials and supplies		
Conferences and meetings travel		
Field work travel		
Project-related travel		
Engagement		
Reporting		
External Contracts - Organization/Vendor/Suppliers (LICA)		\$11,250
Overhead		
Grants		
Capital		
Total budget request for the year	0	\$35,250
Total budget approved		

Source of Funding Requested Year 2 - 2019/20

	AEP ONLY: EMSD	OSM
Salaries and Benefits - AEP Chargeback		\$24,000
Salaries and Benefits - New OSM Staff		\$0
Operations and Maintenance		
Consumable materials and supplies		
Conferences and meetings travel		
Field work travel		
Project-related travel		
Engagement		
Reporting		
External Contracts - Organization/Vendor/Suppliers (LICA)		\$100,000
Overhead		
Grants		
Capital		
Total budget request for the year		\$124,000
Total budget approved		

Source of Funding Requested Year 3 - 2020/21

	AEP ONLY: EMSD	OSM
Salaries and Benefits - AEP Chargeback		\$24,000
Salaries and Benefits - New OSM Staff		\$0
Operations and Maintenance		
Consumable materials and supplies		
Conferences and meetings travel		
Field work travel		
Project-related travel		
Engagement		
Reporting		
External Contracts - Organization/Vendor/Suppliers (LICA)		\$50,000
Overhead		
Grants		
Capital		
Total budget request for the year		\$74,000
Total budget approved		

Source of Funding Requested Year 4 - 2021/22		
	AEP ONLY: EMSD	OSM
Salaries and Benefits - AEP Chargeback		\$0
Salaries and Benefits - New OSM Staff		\$0
Operations and Maintenance		
Consumable materials and supplies		
Conferences and meetings travel		
Field work travel		
Project-related travel		
Engagement		
Reporting		
External Contracts - Organization/Vendor/Suppliers (LICA)		
Overhead		
Grants		
Capital		
Total budget request for the year		\$0
Total budget approved		
Budget Request for the Entire Project	0	\$233,250

Project Approval(s)

Proposal Submitted by		
Surname	Given Name	Organization
Myrick	Bob	AEP

Signature	Date

Proposal for OSM Reviewed by		
Signature	Date	
X Bob Myrick Director, Airshed Sciences		

AEP Administrator/Coordinator - Review	Signature	Date
X for Bill Donahue Executive Director, Science		

ECCC Administrator/Coordinator - Review	Signature	Date

OSM Project Approved by

AEP Co-Lead for OSM	Signature	Date

ECCC Co-Lead for OSM	Signature	Date

AEP ONLY: Proposal for EMSD Reviewed by

EMSD Director	Signature	Date

AEP ONLY: EMSD Project Approved by

EMSD Executive Director	Signature	Date

EMSD Chief Scientist	Signature	Date

OSM / EMSD Project Has Not Been Approved

Project Status	Date Notified	Date Required
The project is conditionally approved. The following conditions are required before approval is granted.		

List the Condition(s)

Condition(s) Addressed / Approval Granted
Choose one

OSM / EMSD Approval Post Removal of Condition(s)

Name & Title	Signature	Date

Budget requirements – List areas that require budget expenditures: (ADD OR DELETE BUDGET CATEGORIES AS REQUIRED)	Financial Breakdown (should align with budget above)		Funding Recipient (identify organization where money will be allocated to)
	Cash	In - kind	
Operations	\$9,000		LICA
Maintenance			
Lab Analysis			
Administrative/ Management			
Engagement			
Communications			
Capital	\$0		LICA
Data Management and Reporting	\$2,250		LICA
Travel (identify conference, field, meetings)			
Publication costs (including translation)			
TOTAL	\$11,250		

Google Maps

54°22'41.2"N 110°42'39.2"W

You can enter notes here.



Symb

Add All Monitoring Site Locations and Coordinates (insert more rows if required)

Site Identifier *	Location Name *	Long/Lat *
Site 1		
Beaver River valley monitoring array	Beaver River valley monitoring array	54.37811349,-110.71089802
Site 2		