

# 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><b>* Decision Pool A: Workplan approved.</b></p> <p><b>* Approved at \$173,500</b></p> <p>* It is a requirement of funding that key members of the project team participate in a Biological Monitoring Integration Workshop to be informed by the Oil Sands Monitoring Secretariat</p> <p>* Activity is to be linked with B-LTM-E-8-1819</p> <p>* Funding beyond 18/19 must be informed by discussions with Alberta Environment &amp; Parks' Fish and Wildlife Division to ensure adequate integration, clear distinctions between provincial monitoring and that funded by the Oil Sands Monitoring Program, and to ensure leverage opportunities are realized if possible</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>
19/01/2018	B-RC-11-1819	OSM - Focus Study	
Program Category *	Status *	Dept. ID	
Biodiversity, Land, Ecosystem Health Sciences	Existing Project		
Project Leadership / Contact information			
Project Title *	Key Words (max 10) *		
Fish Biodiversity Monitoring			
Surname *	Given Name *	Title *	
Scrimgeour	Garry	Executive Director, Environmental Monitoring and Science Division (EMSD)	
Organization *	Department	Division	
Alberta Provincial	Environment and Parks	Environmental Monitoring and Science	
Branch *	Section/Unit (if applicable)	Phone *	
Environmental Observations and Monitoring		7802297299	
Email *	Mailing Address	City	
<a href="mailto:garry.scrimgeour@gov.ab.ca">garry.scrimgeour@gov.ab.ca</a>	9th Floor, 9888 Jasper Avenue, Edmonton, AB T5J 5C6		
Postal Code	EMSD Executive Owner (if Applicable)		
T5J 5C6	Garry Scrimgeour		
Project Information			
Project Objective(s) (Bullet Form) *	<p>* To develop a science-based framework for the monitoring and assessment of the environmental health of the Alberta Oil Sands Region through the use of fish community/assemblage monitoring;</p> <p>* Collection of baseline information on fish communities required for establishing predictive relationships for assessing potential cumulative effects and monitoring long-term trends at the regional scale.</p> <p>* To establish linkages between fish communities and benthic invertebrates within the oil sands development region and downstream receiving environments, to examine assess status and trends, and to support integration of results with the Lower Athabasca Water Management Framework.</p>		
Plain Language Overview (100 words) *	<p>* The long term biodiversity fish monitoring plan incorporates river segments (i.e., sampling locations) of the initial monitoring plan under the Regional Aquatic Monitoring Program that has provided either evidence of change occurring in fish communities (Spring fish inventory) or baseline data (Spring fish spawning fence) that requires further monitoring. Additionally, the Fish monitoring working group has begun assessment of previous fish work on the Athabasca mainstem and its tributaries which have utilized fish community and assemblage sampling as tools to detect change with development of the oil sands.</p> <p>* To date, existing data sets, including a wealth of historical data, have not been assessed quantitatively to determine the power of current sampling methods to detect change and what level of change should trigger increased sampling effort. Evaluations of existing data sets also informs descriptions of predicted versus observed fish community structure and individual and population descriptors.</p> <p>* We will analyze existing data on fish community structure to improve our understanding of temporal and spatial variance in fish community and collectively contribute to our understanding of fish assemblage sampling as a tool for detecting change in fish in the oil sands area.</p>		
Project Duration *	Project Original Start Date *	Estimated Completion Date *	
Multi-Year	1/4/2015	31/3/2021	
Specify Objectives This Project Will Address in 2018/2019. *	<p>* Quantify the structure of fish communities at 14 reaches in the Mainstem of the Athabasca River and in the Clearwater River (to be sampled in 2018 and then 2021 and 2024)</p> <p>* Review existing fish data sets for the Athabasca River to assess the extent that current data sets can improve our knowledge of spatial and temporal patterns in fish communities</p> <p>* Supports the transition and integration of fish programming led by ECCC and consultants to that being delivered by EMSD</p>		
Specify Objectives This Project Will Address Beyond 2018/19 (if multi-year). *	<p>* Quantify the health of fish in the Athabasca River including spawning survey in the Muskeg River. The Muskeg River Fish fence survey is conducted every 3 years. The next sampling event is scheduled for 2020).</p> <p>* Additional assessments of information derived from extensive existing data sets to occur in 2018-19 and in reduced effort in 2020-2021.</p>		
List Key Questions/Hypotheses Related to Each Objective Stated Above. *	Is there evidence of effects of cumulative industrial oil sands developments on fish communities in the Athabasca River as measured using individual, population and community level descriptors?		

Main Assumptions, Constraints, Dependencies. *	<p>* Efficient monitoring of fish populations and communities requires additional investments of time to understand what can be learned from existing data sets *</p> <p>Increased efforts to integrate ongoing fish-related projects conducted through the Oil Sands Monitoring Program and by individual oil sands operators will result in cost efficiencies and increased learnings on drivers of variance in fish populations and communities. * The transition of fish community programming from ECCC and consultants to that being led by EMSD is supported with the hiring of two fish biologists that will support the completion of a two year transition plan.</p>	
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 checked="" 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 checked="" type="checkbox"/> Indigenous Community or Organization <input type="checkbox"/> ENGO <input type="checkbox"/> Other	Both	<input checked="" type="checkbox"/> Office or Laboratory <input checked="" 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
<b>AEP ONLY: Strategic Alignment to EMSD Outcomes</b>		
AEP ONLY: Strategic Alignment to EMSD Science Plan, select 1-2 areas that apply (if Applicable)		
Ecosystems and Predicting Change		
Human Relationship with the Environment		
<b>AEP ONLY: Strategic Alignment to AEP Departmental Outcomes</b>		
AEP ONLY: Environmental and Ecosystem Health and Integrity	AEP ONLY: Sustainable Economic Diversity	AEP ONLY: Social Well-Being
Biodiversity	Yes	Yes
AEP ONLY: Protected Public Health and Safety from Environmental		
Yes		
AEP ONLY: IMAG/IMSC Information Needs, Please Specify Which Need(s) is Being Addressed. File location M:\EMSD\Common\Portfolio Mgmt System Shared Docs	Biodiversity (Priority 19 Provincial scale monitoring of Alberta's aquatic and terrestrial species)	
AEP ONLY: How This Project Will Address Each Strategic Theme Selected Above.	Provides the data and interpretation to quantify current accumulated state and predict future states	
<b>Project Methodology</b>		
List the Key Project Phases and Provide Bullets for Each Major Task Under Each Project Phase. *	<p>* Historically fish monitoring conducted through the oils sands monitoring program had been led by ECCC (Principle Investigator: Dr. Mark McMaster) and supported by contracts with several consulting companies. This work plan for 2018-19 describes the transition of two components of fish biodiversity monitoring currently led by ECCC that is being transitioned to EMSD in 2018-19. These two components are: i) Spring fish surveys in the mainstem and the Clearwater River (conducted every three years with sampling to be completed in spring 2018) and ii) Fish spawning surveys in the Muskeg River (conducted every three years with sampling identified for 2021). The work plan also includes efforts to mine existing data sets to more fully describe spatial and temporal patterns in fish populations and communities.</p> <p>* A separate work plan created by Dr. Mark McMaster (ECCC) describes efforts to monitor fish health in the Athabasca River which is being transitioned to EMSD in 2019-2020. This work involves fish surveys in a suite of tributaries to the Athabasca River which are surveyed at three to five year intervals.</p>	
Describe How Changes in Environmental Condition Will Be Assessed. *	<p>* Comparisons of individual, population and community attributes among years with assessments of evidence of temporal trends in the data sets. *</p> <p>Analyses of comprehensive and existing data assets provide the opportunity to test for longer term temporal patterns in potential responses to oil sands development on individual, population and community measures.</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". *	* Benchmarks and triggers are in the process of being developed.	
Provide a Brief Description of the Methods By Project Phase. *	Application of Nationally recognised standards to: i) collect and handle fish as described by the Canadian Council of Animal Care, ii) adoption of all relevant occupational health and safety protocols and iii) protocols to ensure data quality and standards.	

List the Key Indicators Measured. *	* Individual, population and community level descriptors and linkages to water physico chemistry, landscape disturbance and mine site operations
Describe Sample Handling Procedures, If Not Applicable, State N/A. *	* Application of Nationally recognised standards to: i) collect and handle fish as described by the Canadian Council of Animal Care, and ii) adoption of all relevant occupational health and safety protocols and iii) protocols to ensure data quality and standards.
List SOPs that Will Be Used, If Not Applicable, State N/A.*	N/A
Describe the QA/QC Plan, If Not Applicable, State N/A. *	Not currently available
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.*	* Indigenous peoples have and will continue to be asked to participate in the completion of the field program and more importantly will play an increasingly important role through time to identify and support the selection and monitoring of fish indicators of relevance to them.
<b>Components Delivered by Others</b>	
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><b>Component 1 - Sampling in the mainstem of the Athabasca River and in the Clearwater River</b>  * In 2018, spring sampling of fish in the mainstem of the Athabasca River and in the Clearwater River will be led by ECCC with the support of EMSD (sampling is repeated at three year intervals).  * In 2021, spring sampling of fish in the mainstem of the Athabasca River and in the Clearwater River will be conducted by EMSD with possible support from ECCC.</p> <p><b>Component 2 - Muskeg River Fish Spawning Evaluations</b>  * This work is completed every three year intervals with the next sampling set for 2020 and will be delivered by EMSD with support of local contractor * Component 3 - Evaluations of existing fish data sets. This work will be completed by an EMSD staff member in multiple years.</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><b>Component 1 - Sampling in the mainstem of the Athabasca River and in the Clearwater River</b>  Transfer of funds</p> <p><b>Component 2 - Muskeg River Fish Spawning Evaluations</b>  * Conducted by EMSD staff with small contract to local service provider in Fort McMurray  This work is completed every three year intervals with the next sampling set for 2021 and will be delivered by EMSD with support of a local contractor * Component 3 - Evaluations of existing fish data sets. This work will be completed by an EMSD staff member.</p>
<b>Monitoring Site Locations and Coordinates (for all sites, please add them to the Monitoring Site Location tab - a separate excel sheet)</b>	
Attach Map of Locations. Distinguish Indicators by Station if Necessary. Distinguish Sampling Frequency by Station if Necessary.	Site locations of samples to be collected from the mainstem of the Athabasca River and the Clearwater River: Site 03B (56.70669893°N 111.436507531°W), Site 00B (56.9034622239°N, 111.422073454°W), Site 01A (56.9281647382°N, 111.44187196°W), Site 04A & 04B (56.9989380215°N, 111.452952248°W), Site 05A & 05B (57.0177762886°N, 111.482230472°W) Site 06A (57.0389847012°N, 1.510514601°W), Site 10B (57.1373755999°N, 111.60696581°W), Site 11A (57.1693792923°N, 111.62751848°W), Site 16A (57.3082390631°N, 111.671360273°W), Site 17A (57.3371521766°N, 111.67448315°W), Site 19A & 19B (57.4102026058°N, 111.643993001°W).
<b>Project Schedule</b>	
<b>FOR OIL SANDS MONITORING PROJECTS ONLY:</b> 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.	* Sampling of mainstem sites in the Athabasca and in the Clearwater is scheduled for the second week of May (mainstem Athabasca sites) and first week of June (Clearwater sites) * Data mining is a desk-top exercise that will occur throughout the fiscal year * Muskeg River fish surveys is scheduled for spring of 2021 *
<b>FOR OIL SANDS MONITORING PROJECTS ONLY:</b> Have You Coordinated With Other Project Leads On Field Logistics? If So, Please Specify. *	An Oil Sands Work plan titled "Athabasca River Fish health" led by Dr. Mark McMaster is scheduled to be transitioned from ECCC to EMSD in 2019. This work plan and that led by Dr. McMaster includes several activities (and associated time allocations) to enable this transition or programming and is likely to result in an integrated core fish monitoring program for the Athabasca River delivered by EMSD in 2019-2020.
<b>Other</b>	

Additional Details.		
Will Capacity Building and Training be a Component of the Project and If So, Explain How. If Not, State N/A.*	* Yes. We EMSD has recruited two fish biologists to support delivery of the fish biodiversity monitoring work plan and the integration with the Oil Sands Work plan titled "Athabasca River Fish health" led by Dr. Mark McMaster. Both new staff members will receive all required training during the period of February 2018 to May 2018. This will require refreshers on several training courses and new training to fulfill occupational health and safety requirements.	
Environmental Impact and Considerations.	None	
<b>Data Management and Digital Assets</b>		
Will Data be Produced as a Result Of This Project? *	Type of Quantitative Data Variables	Frequency Of Collection
Yes	Continuous	Annually
This work plan will result in a combination of continuous data and dis-continuous data		
Data Collection Period: Start Date - End Date	Timeline For Upload Period: Start Date - End Date	
Spring fish monitoring May-June	Data will be entered initially into Excel and then transitioned into a data management system when the system becomes operational	
Data mining	Throughout the fiscal year	
Is There a Data Sharing Agreement? (Yes or No).	No. All data previously collected as part of preceding work plans is readily available from ECCC	
Will the Data Include Traditional Knowledge as Defined by and Provided by an Indigenous Representative, Community or Organization (Yes / No).	Minimal during 2018-19.	
Platform/Location of Data Storage.	Excel based and then transferred to a more comprehensive data management system when it becomes available. Data shall be entered into an integrated data management system at regular intervals and data uploads have been tentatively identified to occur as a quarterly deliverable.	
<b>Project Deliverables</b>		
<b>Proposed 2018-19 Deliverable Type (for each deliverable outline document, presentation, meeting, etc.)</b>		
<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
Unlikely for 2018-2019	Unlikely for 2018-2019	Unlikely for 2018-2019
Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	Q2 - Deliverable, Comments
Unlikely for 2018-2019	Unlikely for 2018-2019	Unlikely for 2018-2019
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	Q3 - Deliverable, Comments
Unlikely for 2018-2019	Unlikely for 2018-2019	Unlikely for 2018-2019
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	Q4 - Deliverable, Comments
Unlikely for 2018-2019	Unlikely for 2018-2019	Unlikely for 2018-2019
<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.

Unlikely for 2018-2019	Possible for 2018-2019	Likely for 2018-2019
<b>Q2 - Deliverable, Comments</b>	<b>Q2 - Deliverable, Comments</b>	<b>Q2 - Deliverable, Comments</b>
Choose one	Platform	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
Unlikely for 2018-2019	Unlikely for 2018-2019	Unlikely for 2018-2019
<b>Q3 - Deliverable, Comments</b>	<b>Q3 - Deliverable, Comments</b>	<b>Q3 - Deliverable, Comments</b>
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
Unlikely for 2018-2019	Unlikely for 2018-2019	Unlikely for 2018-2019
<b>Q4 - Deliverable, Comments</b>	<b>Q4 - Deliverable, Comments</b>	<b>Q4 - Deliverable, Comments</b>
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
	Summary of field activities completed to be developed and reported	
<b>Proposed Deliverables After 2018/2019 for the project funds received in 2018/2019</b>		
<input type="checkbox"/> <b>Peer-reviewed Journal Publication</b>	<input type="checkbox"/> <b>Peer-reviewed Conference Proceeding</b>	<input type="checkbox"/> <b>Non-peer reviewed Conference Proceeding</b>
<b>Q1 - Deliverable, Comments</b>	<b>Q1 - Deliverable, Comments</b>	<b>Q1 - Deliverable, Comments</b>
Unlikely for 2018-2019	Unlikely for 2018-2019	Likely in 2019-2020 but difficult to predict the specific audience and location at the time of submission of this work plan. Additional details on the engagement plan, including audiences and deliverable will become clear with the arrival of the two new EMSD staff.
<b>Q2 - Deliverable, Comments</b>	<b>Q2 - Deliverable, Comments</b>	<b>Q2 - Deliverable, Comments</b>
Unlikely for 2018-2019	Unlikely for 2018-2019	Likely for 2018-2019
<b>Q3 - Deliverable, Comments</b>	<b>Q3 - Deliverable, Comments</b>	<b>Q3 - Deliverable, Comments</b>
Unlikely for 2018-2019	Unlikely for 2018-2019	Unlikely for 2018-2019
<b>Q4 - Deliverable, Comments</b>	<b>Q4 - Deliverable, Comments</b>	<b>Q4 - Deliverable, Comments</b>
	Highly likely but details are not available at present.	
<input type="checkbox"/> <b>Conference Presentation(s)</b>	<input type="checkbox"/> <b>Stakeholder Presentation</b>	<input type="checkbox"/> <b>Key Engagement/Participation Meeting *</b>
<b>Q1 - Deliverable, Comments</b>	<b>Q1 - Deliverable, Comments</b>	<b>Q1 - Deliverable, Comments</b>
Choose one	Platform	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
<b>Q2 - Deliverable, Comments</b>	<b>Q2 - Deliverable, Comments</b>	<b>Q2 - Deliverable, Comments</b>
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
Summary of field activities to be developed and synopsis report that summarizes the status of the project and including required quarterly updates on the program to the Oil Sands Office		
<b>Q3 - Deliverable, Comments</b>	<b>Q3 - Deliverable, Comments</b>	<b>Q3 - Deliverable, Comments</b>
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
<b>Q4 - Deliverable, Comments</b>	<b>Q4 - Deliverable, Comments</b>	<b>Q4 - Deliverable, Comments</b>
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.

All Completed Products		if a multi-
year project, specify all completed products to date (consistent format for the fields below). Add rows as required.		
<b>Journal Paper</b>		
<b>Required Format: Author (follow APA citation format), Year, Title, Journal, Volume, Page Numbers, Open or Closed and Document Location</b>		
Example: Jacoby, W. G. (1994). Public Attitudes Toward Government Spending. <i>American Journal of Political Science</i> , 38(2), 336-361.		
Fearon, J. D., & Laitin, D. D. (2003). Ethnicity, Insurgency, and Civil War. <i>American Political Science Review</i> , 97(01), 75. doi: 10.1017/S0003055403000534		
<i>Note: My preference is to allow the new employees to get established so that the work can transition the work from ECCC to EMSD and that EMSD will be able to provide more detailed and comprehensive description of communications products later in the fiscal year of 2018-1019</i>		
2)		
3)		
4)		
5)		
<b>Technical Report</b>		
<b>Required Format: Author, Year, Title, Publisher Location, Name of Publisher, Publisher, Document Location</b>		
Example: Author, F.M. (Publication Year). Title of Report (Report No. XXX). Publisher City, State: Publisher		
<i>Please comment above.</i>		
2)		
3)		
4)		
5)		
<b>Book Chapter</b>		
<b>Required Format: Author, Year, Title of Paper, Editors, Title of Book, Page Numbers, Location of Publisher, Name of Publisher, Document Location</b>		
Example: Hemingway, E. (1999). The Killers. In J. Updike & K. Kenison (Eds.), <i>The Best American Short Stories of the Century</i> (pp.78-80). Boston, MA: Houghton Mifflin		
1)		
2)		
3)		
4)		
5)		
<b>Conference Proceeding</b>		
<b>Required Format: Author, Year, Title of Paper, Editors, Title of Proceedings, Name of Conference Location of Conference, Publisher Location, Name of</b>		
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)		
<b>Public Dissemination Document</b>		
<b>Required Format: Author, Year, Title, Journal / Report, Volume, Publisher, Page Number, Number of Pages, Document Location</b>		
1)		
2)		
3)		
4)		
5)		
<b>AEP ONLY: EMSD Strategic and Operational Publication</b>		
<b>Required Format: Author, Year, Title, Publisher Location, Name of Publisher, Publisher, Document Location</b>		
1)		
2)		
3)		
4)		
5)		
<b>Other Documents</b>		
<b>Detailed Information of Other Documents</b>		
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
Keegan Hicks	Environmental Monitoring and Observations Branch	Lead the design and interpretation, and reporting
Fred Noddin	Environmental Monitoring and Observations Branch	Lead the deployment and supports reporting
AEP ONLY: Additional Human Resources		
Name & Role	Branch - Section	Estimated time (% of annual FTE)
Keegan Hicks	Environmental Monitoring and Observations Branch	20
Fred Noddin	Environmental Monitoring and Observations Branch	70
Kristin Hynes	Environmental Monitoring and Observations Branch	10
Financial Details and Budget Request		
Source of Funding Requested Year 1 - 2018/19		
	AEP ONLY: EMSD	OSM
Salaries and Benefits - AEP Chargeback		120000
Salaries and Benefits - New OSM Staff		0
Operations and Maintenance		8500
Consumable materials and supplies		7500
Conferences and meetings travel		3000
Field work travel		6000
Project-related travel		6500
Engagement		2000
Reporting		
External Contracts - Organization/Vendor/Suppliers		14000
Overhead		0
Grants		0
Capital		6000
Total budget request for the year	0	173500
Total budget approved		
Source of Funding Requested Year 2 - 2019/20		
	AEP ONLY: EMSD	OSM
Salaries and Benefits - AEP Chargeback		110000
Salaries and Benefits - New OSM Staff		TBD
Operations and Maintenance		2500
Consumable materials and supplies		2700

Conferences and meetings travel		3000
Field work travel		0
Project-related travel		4000
Engagement		2000
Reporting		10000
External Contracts - Organization/Vendor/Suppliers		
Overhead		
Grants		
Capital		
<b>Total budget request for the year</b>	<b>0</b>	<b>134200</b>
<b>Total budget approved</b>		

Source of Funding Requested Year 3 - 2020/21		
	AEP ONLY: EMSD	OSM
Salaries and Benefits - AEP Chargeback		110000
Salaries and Benefits - New OSM Staff		TBD
Operations and Maintenance		12000
Consumable materials and supplies		5500
Conferences and meetings travel		3000
Field work travel		4000
Project-related travel		2500
Engagement		2000
Reporting		750
External Contracts - Organization/Vendor/Suppliers		22000
Overhead		
Grants		
Capital		
<b>Total budget request for the year</b>	<b>0</b>	<b>161750</b>
<b>Total budget approved</b>		

Source of Funding Requested Year 4 - 2021/22		
	AEP ONLY: EMSD	OSM
Salaries and Benefits - AEP Chargeback		110000
Salaries and Benefits - New OSM Staff		TBD
Operations and Maintenance		5000
Consumable materials and supplies		2500
Conferences and meetings travel		3000
Field work travel		4000
Project-related travel		4000
Engagement		3000
Reporting		750
External Contracts - Organization/Vendor/Suppliers		
Overhead		
Grants		
Capital		
<b>Total budget request for the year</b>	<b>0</b>	<b>132250</b>
<b>Total budget approved</b>		

<b>Budget Request for the Entire Project</b>	<b>0</b>	<b>601,700</b>
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Project Approval(s)		
Proposal Submitted by		
Surname	Given Name	Organization
Signature	Date	
Proposal for OSM Reviewed by		
EMSD Executive Director	Signature	Date
AEP Administrator/Coordinator - Review	Signature	Date
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

**Add All Monitoring Site Locations and Coordinates (insert more**

Site Identifier *	Location Name *
Site 1	
Site 3B	
Site 2	
Site 00B	
Site 3	
Site 01A	
Site 4	
Site 04A and Site04B	
Site 5	
Site 05A and Site 05B	
Site 6	
Site 06A	
Site 7	
Site 10B	
Site 8	
Site 11A	
Site 9	
Site 16A	
Site 10	
Site 17A	
Site 11	
Site 19A and 19B	
Site 12	
Site 13	
Site 14	
Site 15	

