

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 *	*Decision Pool C: Activity paused. * Activity paused pending outcomes of the Deposition Monitoring Integration Workshop * It is a requirement that key members of the project team participate in a Deposition Monitoring Integration Workshop to be informed by the Oil Sands Monitoring Secretariat. *Funding in 2018/19 is dependent upon the findings of the Deposition Monitoring Integration Review and Workshop.
9/2/2018	A-LTM-E-8-1819	OSM - Long Term Monitoring	
Program Category *	Status *	Dept. ID	
Air/Atmosphere/Climate	Existing Project	1104	
Project Leadership / Contact information			
Project Title *	Key Words (max 10) *		
Acid-Sensitive Lakes Monitoring	Water Quality, Lakes, Acid Emissions, Deposition, Buffering, pH		
Surname *	Given Name *	Title *	
Cooke	Colin	Dr.	
Organization *	Department	Division	
Alberta Provincial	Alberta Environment and Parks	Environmental Monitoring and Science	
Branch *	Section/Unit (if applicable)	Phone *	
Science	Watershed Science	7802297297	
Email *	Mailing Address	City	
colin.cooke@gov.ab.ca	10th floor, 9888 Jasper Ave	Edmonton	
Postal Code	EMSD Executive Owner (if Applicable)		
T5J 5C6	Dr. Bill Donahue		
Project Information			
Project Objective(s) (Bullet Form) *	<ul style="list-style-type: none"> Continue measuring acidity in representative lakes in the oil sands region Report on the state and trends in lake water acidity capable of causing adverse human and/or environmental health effects. Characterize the effects of atmospheric deposition from industrial activity as well as other drivers on acidity in lake water. 		
Plain Language Overview (100 words) *	This study addresses a requirement under existing oil sands approval clauses to conduct monitoring of regional lake waters to assess the potential for acidifying emissions to lead to measureable declines in lake water pH in the region surrounding oil sands mining and processing operations. This plan continues more than 15 years worth of monitoring activities related to improved understanding of acid emissions, transport, and fate in the oil sands region.		
Project Duration *	Project Original Start Date *	Estimated Completion Date *	
Multi-Year	1/1/1997	31/03/2021	
Specify Objectives This Project Will Address in 2018/2019. *	Provide ongoing data to establish regional reference conditions for lakes in the oil sands region. Provide ongoing data on levels of acidity that can be used to identify changes in the magnitude or frequency of environmental change. Provide ongoing data to explore the drivers of change influencing lake acidity.		
Specify Objectives This Project Will Address Beyond 2018/19 (if multi-year). *	Provide ongoing data to establish regional reference conditions for lakes in the oil sands region. Provide ongoing data on levels of acidity that can be used to identify changes in the magnitude or frequency of environmental change. Provide ongoing data to explore the drivers of change influencing lake acidity.		
List Key Questions/Hypotheses Related to Each Objective Stated Above. *	Has the level of acidity in lakes deviated from baseline levels (reference conditions)? Are changes in lake water acidity driven by changes in acidifying emissions from oil sands operators?		
Main Assumptions, Constraints, Dependencies. *	That sufficient human resources will be available to conduct the necessary field work That a data management system will be in place to manage the water chemistry results		
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 checked="" type="checkbox"/> Solely delivered by GoA <input type="checkbox"/> Citizen Science <input type="checkbox"/> Indigenous Community or Organization <input type="checkbox"/> ENGO	Classical Science	<input checked="" type="checkbox"/> Office or Laboratory <input type="checkbox"/> Sub-regional <input type="checkbox"/> Transboundary (provincial/territorial) <input checked="" 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"/> Other		<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)			
Ecosystems and Predicting Change Legislated/Policy Requirement			
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	
Water (Surface and Ground)	No	No	
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	29 - Surface Water and Aquatic Ecosystem Health of Alberta Lakes By continuing to measure and characterize lake acidity in the oil sands region, this project contributes to broad spatial and temporal scale assessment of lake water quality. This is captured within the scope of the above information need.		
AEP ONLY: How This Project Will Address Each Strategic Theme Selected Above.	Trends in acidity in lake water have the potential to impact ecosystem integrity and public health. Continuously collecting this information provides important context for how industrial emissions and other drivers are affecting lake water quality by better characterizing the transport and fate of contaminants in the oil sands region.		
Project Methodology			
List the Key Project Phases and Provide Bullets for Each Major Task Under Each Project Phase. *	Data Collection: - preparation for field work - collection of samples - shipping and submission to designated laboratory Laboratory analysis: - acknowledgement of sample arrival - analysis of sample for requested parameters - laboratory specific quality assurance and quality control - delivery of results Data Management: - data received and uploaded to database - review of results including matching with sample metadata and verification and validation of data, - preparation of data release files in machine readable format (e.g., CSV format) - review and approval for data release - public data release.		
Describe How Changes in Environmental Condition Will Be Assessed. *	Data will be used to detect the spatial and temporal patterns of lake water acidity. This annual dataset will be analyzed to determine whether deviations from baseline is occurring, and whether further study is required. This will be used to develop a report which summarizes trends and explains the key drivers of lake water acidity in the region.		
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". *	NONE		
Provide a Brief Description of the Methods By Project Phase. *	Data Collection: - preparation for field work - collection of samples - shipping and submission to designated laboratory Laboratory analysis: - acknowledgement of sample arrival - analysis of sample for requested parameters - laboratory specific quality assurance and quality control - delivery of results Data Management: - data received and uploaded to database - review of results including matching		
List the Key Indicators Measured. *	pH, nutrients, major ions, metals, zooplankton		
Describe Sample Handling Procedures, if Not Applicable, State N/A. *	All sample handling procedures will follow EMSD protocols.		
List SOPs that Will Be Used, if Not Applicable, State N/A. *			
Describe the QA/QC Plan, if Not Applicable, State N/A. *			
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. *	N/A		

Components Delivered by Others		
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. *	Laboratory Analysis - University of Alberta - BASL	
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. *	Contract. University of Alberta - BASL, not yet drafted.	
Monitoring Site Locations and Coordinates (for all sites, please add them to the Monitoring Site Location tab - a separate excel sheet)		
Attach Map of Locations. Distinguish Indicators by Station if Necessary. Distinguish Sampling Frequency by Station if Necessary.		
Project Schedule		
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.	Attached.	
FOR OIL SANDS MONITORING PROJECTS ONLY: Have You Coordinated With Other Project Leads On Field Logistics? If So, Please Specify. *	Yes, EMSD EMOB staff will coordinate as necessary.	
Other		
Additional Details.		
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.		
Data Management and Digital Assets		
Will Data be Produced as a Result of This Project? *	Type of Quantitative Data Variables	Frequency Of Collection
Yes	Discrete	Annually
Data Collection Period: Start Date - End Date	Timeline For Upload Period: Start Date - End Date	
July 2018 - August 2018	1/12/2018	
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.	Unknown at this time.
------------------------------------	-----------------------

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 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
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 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
Colin Cooke	EMSD	PI
Field Technologist	EMSD	sample collection


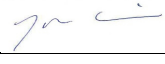
AEP ONLY: Additional Human Resources Required from EMSD

Name & Role	Branch - Section	Estimated time (% of annual FTE)	Estimated Salary Range
Colin Cooke	Science Branch	5	\$110,000 - \$130,000 (including 25% to cover benefits)
Field Technologist	EMOB	25	\$90,000 - \$110,000 (including 25 to cover benefits)
			Choose one
			Choose one
			Choose one
			Choose one
			Choose one
			Choose one
			Choose one

Financial Details and Budget Request

Source of Funding Requested Year 1 - 2018/19	
	AEP ONLY: EMSD
Salaries and Benefits - AEP Chargeback	OSM 26250
Salaries and Benefits - New OSM Staff	0
Operations and Maintenance	64000
Consumable materials and supplies	
Conferences and meetings travel	
Field work travel	3000
Project-related travel	
Engagement	
Reporting	
External Contracts - Organization/Vendor/Suppliers	70000
Overhead	
Grants	

Capital		
Total budget request for the year	0	163250
Total budget approved		
Source of Funding Requested Year 2 - 2019/20		
	AEP ONLY: EMSD	OSM
Salaries and Benefits - AEP Chargeback		
Salaries and Benefits - New OSM Staff		
Operations and Maintenance		
Consumable materials and supplies		
Conferences and meetings travel		
Field work travel		
Project-related travel		
Engagement		
Reporting		
External Contracts - Organization/Vendor/Suppliers		
Overhead		
Grants		
Capital		
Total budget request for the year	0	0
Total budget approved		
Source of Funding Requested Year 3 - 2020/21		
	AEP ONLY: EMSD	OSM
Salaries and Benefits - AEP Chargeback		
Salaries and Benefits - New OSM Staff		
Operations and Maintenance		
Consumable materials and supplies		
Conferences and meetings travel		
Field work travel		
Project-related travel		
Engagement		
Reporting		
External Contracts - Organization/Vendor/Suppliers		
Overhead		
Grants		
Capital		
Total budget request for the year	0	0
Total budget approved		
Source of Funding Requested Year 4 - 2021/22		
	AEP ONLY: EMSD	OSM
Salaries and Benefits - AEP Chargeback		
Salaries and Benefits - New OSM Staff		
Operations and Maintenance		
Consumable materials and supplies		
Conferences and meetings travel		
Field work travel		
Project-related travel		
Engagement		
Reporting		
External Contracts - Organization/Vendor/Suppliers		
Overhead		
Grants		
Capital		
Total budget request for the year	0	0
Total budget approved		
Budget Request for the Entire Project	0	163,250

Project Approval(s)		
Proposal Submitted by		
Surname	Given Name	Organization
Cooke	Colin	EMSD
Signature	Date	
	12/2/2018	
Proposal for OSM Reviewed by		
EMSD Executive Director	Signature	Date
John Orwin per Bill Donahue		12/02/2018
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 rows if required)		
Site Identifier *	Location Name *	Long/Lat *
Site 1		
Legend Lake	444 (L25/Legend)	57.40553139 / -111.0686425
Namur Lake	436 (L18/Namur)	57.41795111 / -111.3139403
Unnamed Lake	464 (L60)	57.65490556 / -111.3830092
Unnamed Lake	455 (L47)	57.68843056 / -111.2638767
Unnamed Lake	457 (L49)	57.76039444 / -111.4198003
Unnamed Lake	447 (L28)	57.85349139 / -111.0268328
Clayton Lake	448 (L29/Clayton/E136)	58.05925111 / -111.7273833
Bayard Lake	454 (L46/Bayard)	57.77011472 / -111.6018208
Otasan Lake	442 (L23/Otasan)	57.70333167 / -111.6193547
Unnamed Lake	175 (P13/E177)	57.31498611 / -111.602505
Unnamed Lake	199 (P49/E142)	57.6933775 / -110.093685
Fleming Lake	146 (E52/Fleming)	58.77040889 / -114.5637511
Rocky Island Lake	152 (E59/Rocky Island)	59.13245222 / -114.8709361
Whitesand Lake	89 (E68/Whitesand)	59.19231194 / -114.5440497
Unnamed Lake	97 (O-2/E67)	59.31221667 / -114.6537056
Unnamed Lake	91 (O-1/E55)	59.23565694 / -113.4723731
Unnamed Lake	452 (L4)	57.15032111 / -109.1534947
Unnamed Lake	470 (L7)	57.09223528 / -109.2492725
Unnamed Lake	400 (L39/E9/A150)	57.95967944 / -109.6021456
Unnamed Lake	471 (L8)	57.04563583 / -109.4071603
Unnamed Lake	268 (E15)	56.89390972 / -109.0974769
Unnamed Lake	182 (P23)	57.26934194 / -109.0954697
Unnamed Lake	185 (P27)	57.14641778 / -109.1368972
Unnamed Lake	209 (P7)	57.23091222 / -109.2542903
Unnamed Lake	270 (4)	56.76832056 / -109.0893772
Unnamed Lake	271 (6)	56.63903667 / -109.7999044
Kearl Lake	418 (L35/Kearl)	57.29192806 / -110.7612444
Weekes Lake	118 (L107/Weekes)	59.71983028 / -109.9835656
Fletcher Lake	84 (L109/Fletcher)	59.11896972 / -109.1697378
Unnamed Lake	90 (R1)	59.19349 / -109.3212303
Unnamed Lake	473 (A301)	59.169855 / -109.4337503
Unnamed Lake	88 (O-10)	59.12512528 / -109.3124506
Unnamed Lake	354 (94)	55.76109444 / -109.2424483
Unnamed Lake	342 (82)	55.78869417 / -110.1690386
Unnamed Lake	289 (27)	56.20159833 / -110.6310156
Unnamed Lake	290 (28)	56.15167 / -110.7679339
Unnamed Lake	167 (A29)	56.16809139 / -110.4550125
Unnamed Lake	170 (A26)	56.2223525 / -110.8311533
Unnamed Lake	166 (A86)	55.68012944 / -110.1717778
Unnamed Lake	287 (25)	56.2145075 / -110.7994586
Unnamed Lake	169 (A24)	56.22224333 / -110.7468308
Unnamed Lake	168 (A21)	56.26194722 / -110.7375344
Unnamed Lake	165 (A42)	56.35255917 / -112.8210967
Unnamed Lake	171 (A47)	56.24480028 / -112.8597769
Unnamed Lake	172 (A59)	55.91018944 / -111.1362708

Unnamed Lake	223 (P94)	57.14645583 / -110.0163161
Unnamed Lake	225 (P96)	56.79997667 / -110.0818106
Unnamed Lake	226 (P97)	56.81010222 / -110.2764106
Unnamed Lake	227 (P98)	56.78281139 / -110.2110292
Unnamed Lake	267 (1)	56.77173444 / -110.0514189