



Lakeland Industry and Community Association

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TECHNICAL WORKING GROUP

Meeting Minutes

June 11, 2019 – 1:00 p.m. - 4:00 p.m.

LICA Board Room

Present:

Annette Hobart, Committee Chairperson
Randy Parenteau
Andrea Woods (left at 3:30 p.m.)
Shawn Elgert (via teleconference)
Fin MacDermid
Patrick Traudt
Roger Boucher
Amanda Avery-Bibo (arrived at 1:10 p.m., left at 3:30 p.m.)

Observers and Guests:

Staff and Contractors:

Arienne Crook, LICA Executive Director
Michael Bisaga, Manager, Environmental Monitoring Programs
Lily Lin, Data Reporting Specialist
Erin Ritchie, Manager of Environmental Programs
Tina Martin, LICA Administrative Professional

Regrets:

Megan Tilley
Nathan Ballard

1.0 CALL TO ORDER:

Annette Hobart, Chairperson, called the meeting to order at 1:00 p.m.

1.1 Introductions

1.2 Vision, Mission and Values

1.3 Roll Call

1.4 Approval of Agenda

#1 Moved by Patrick Traudt AND RESOLVED that the June 11, 2019 Agenda be approved as presented.

1.5 Approval of Minutes

1.5.1 April 29, 2019

#2 Moved by Fin MacDermid AND RESOLVED that the April 29, 2019 Minutes be approved as presented.

2.0 ONGOING BUSINESS

2.1 Marie Lake

2.1.1 Elevated Hard Metals Readings

Erin informed the Technical Working Group that two members from the Marie Lake Stewardship Group came into the LICA office with concerns regarding 2016 heavy metal results from ALMS testing. The TWG reviewed the 2016 ALMS results from Marie Lake, noting that all measurements are well under the Guidelines for the Protection of Freshwater Aquatic Life. Erin will review the results from the 2019 ALMS testing once it has been completed and determine if there are any areas of concern that need to be further discussed by the TWG.

2.2 Watershed Update

2.2.1 Associated Environmental – Phosphorous Budget

The TWG reviewed the email motion of May 6th to accept the Associated Environmental proposal to complete a Phosphorous Budget on Moose Lake. The motion was carried on May 13th with no blocks.

#3 Moved by Patrick Traudt via email on May 6, 2019 AND RESOLVED that the phosphorus budget project proposal from Associated Environmental be accepted as presented.

2.2.2 WPAC 2019-20 Operational Grant Submitted

Erin updated the TWG that we still have not heard back about LICA's submitted WPAC 2019-20 Operational Grant. Additionally, she has been in contact with AEP regarding the proposed Moose Lake Phosphorous Budget, stressing that the project involves partnerships with the MD of Bonnyville and the Moose Lake Watershed Society.

2.2.3 ALMS 2019 Lakes

Erin presented the complete list of the 2019 lakes to be tested by ALMS which includes:

- 1) Skeleton Lake North Basin,
- 2) Skeleton Lake South Basin,
- 3) Laurier Lake,
- 4) Vincent Lake,
- 5) Minnie Lake,
- 6) Crane Lake,
- 7) Moose Lake,
- 8) Muriel Lake,
- 9) Kehewin Lake, and
- 10) Marie Lake.

The blue-green algae (cyanobacteria) bloom advisory issued for Minnie Lake is still in effect as of this date.

2.3 Monitoring Operations Update

2.3.1 2019-2020 OSM Work Plans

2.3.1.1 OSM Project Leader Meetings June 4-5

Mike and Erin represented LICA at the Science and Indigenous Knowledge Integration Committee (SIKIC) meetings to answer questions about our OSM project plans. The key questions were related to integration of LICA's project plans among other work either proposed or carried out in similar theme areas. The relevant project plans are:

- New Project 3 Beaver River |Watershed Creek Testing
- A-LTM-S-1-1920 Atmospheric Pollutant Active Monitoring Network
- A-LTM-S-4-1920 Meteorological Network
- W-LTM-S-1-1819 Review and Rationalization of Meteorological Monitoring Networks Under the Oil Sands Monitoring Program
- A-LTM-S-2-1920 Passive Network
- New Project 2 Cold Lake Soil Acidification

The SIKIC has requested that integrated work plans be developed for aquatics, atmospheric, terrestrial, and other thematic monitoring areas; LICA's OSM projects fall into these broad theme categories. The submission deadline for revised project plans has been set for June 30, 2019.

2.3.1.2 Project Revisions

The expectation is that we submit revised work plans that will include the integration of similar themes for all current and proposed monitoring in the OSM region.

AEP is taking the lead on drafting the revised integrated work plan for Deposition Monitoring. Mike is working with AEP and other organizations to have the revised plan submitted by the June 30th deadline. Erin is working with AEP and other organizations to incorporate methods, procedure and analysis from long-term existing OSM work plans, such as the Athabasca River Sampling work plan, and incorporating details within the mining region and their effects on benthic macroinvertebrates.

2.3.1.3 Active Monitoring Network

Mike presented wind roses for data collected by the PAMS unit when it was adjacent to the AER office in Bonnyville; wind roses were also presented for where it is currently located, east of Jessie Lake near Charlotte Lake. When concentrations below 10 ppb are removed from the frequency distributions, it was easy to visualize that most of the hydrogen sulphide measurements were coming from the Town of Bonnyville sewage lagoons. AEP has been in contact with LICA about the elevated hydrogen sulphide measurements. LICA has shared its initial air monitoring findings with the Town of Bonnyville; LICA has also been in contact with one of the Town's councilors to provide notification of AEP's interest in exceedances of both the 1-hour and 24-hour Air Quality Objectives and potential odour issue caused by the sewage lagoons.

2.3.1.4 Passive Monitoring Network

The passive monitoring dashboard reports for January to March 2019 were presented for review. The passive hydrogen sulphide measurements collected at the PAMS corroborated co-located continuously measured hydrogen sulphide concentrations; both types of monitoring show notably elevated hydrogen sulphide at this location. The new passive monitoring bubble maps will be included in the re-vamped dashboard reports.

2.3.1.5 Ambient Air Quality Surveillance Beaver River Valley

The OSM Oversight Committee decided not to fund OSM workplan A-IC-1-1920 Ambient Air Quality Surveillance: Beaver River Valley. The OSM Program appreciated the effort and intent of this monitoring program, however, as per the Oil Sands Environmental Monitoring Program Regulation, CHOPS facilities are out of scope of the OSM Program. Phase 1 of the Beaver River Valley Project is intended to understand the meteorological conditions under which emissions from CHOPS facilities may drain into the adjacent river valley. Phase 2 of this project would measure the potential effect on air quality that CHOPS emissions have on air quality within the River Valley.

The array of meteorological stations as they are currently deployed in the valley are autonomous; LICA will operate this program “status-quo” and continue to collect data. If equipment fails, there is no funding to support repairs and/or replacement. Mike will present this issue at a future LICA Industry Steering Committee meeting.

2.3.1.6 Soil Acidification Monitoring Program

LICA’s soil acidification monitoring program was paused in 2018-19 pending outcomes of the Integration Workshops held in the fall of 2018. In January 2019, LICA’s soil acidification monitoring project plan was modified to address the outcomes of the Integration Workshops. However, during the OSM and SIKIC and Oversight Committees’ project plan reviews, LICA’s project was again paused and grouped together with other related OSM projects for integration within the deposition theme area. The submission deadline for revised project plans has been set for the June 30th, 2019.

2.3.2 Network Operations Contract: In-House Reporting Trial

LICA currently uses a third-party contractor to provide data verification, validation, and reporting services. Despite attempts to develop a manageable set of expectations, there have been numerous issues related to report quality, timeliness, transparency of data validation, and resistance to change. Data and reports have been submitted late to the Alberta Airdata warehouse, sometimes up to 76 days.

Since 2016, LICA has been working towards *total ownership* of data management. In 2017, LICA engaged Lily Lin as our Data & Reporting Specialist and, since then, she has been the champion of LICA's data acquisition and control system (DACs). Lily has redeveloped LICA's quality assurance plan and has been the point of contact for requirements related to Chapter 9 of the Air Monitoring Directive.

Mike made a two-part proposal to address the short-comings of LICA's current data management and reporting model.

Part 1 (\$30,000 annually) – On a one-year trial commencing August 1, 2019 Lily Lin will complete reporting as outlined in the Air Monitoring Directive including:

- Level 1 – Primary Validation,
- Level 2 – Final Validation,
- Level 3 – Independent Data Review (with assistance from Monitoring Programs Manager), and
- Post-Final Annual Validation (with assistance from Monitoring Programs Manager)
- Annual Site Documentation updates

Part 2 (\$14,400 annually) – On a one-year trial commencing August 1, 2019, our current reporting contractor will complete data verification as outlined in the Air Monitoring Directive including:

- Level 0 – Preliminary Verification
- Daily Excel Tables and Monthly Service Summary

The benefits of this approach include improved timeliness and quality of reporting products, full utilization of the DACs, method transparency, data validation at a finer time-resolution, and increased flexibility in responding to stakeholder needs.

The TWG recommends to the Board that the in-house reporting trial be implemented.

3.0 ACTION LIST

3.1 Follow-up on Action List

3.1.1 April 29, 2019 TWG Meeting

The Technical Working Group reviewed the action list from the April 29th meeting.

4.0 UPCOMING MEETING DATES

4.1 Board Meeting – June 13, 2019

4.2 Next TWG Meeting – TBD

The next TWG meeting needs to occur before the September 19, 2019 Board meeting.

5.0 ADJOURNMENT

The meeting adjourned at 3:35 p.m.

#3 Moved by Patrick Traudt AND RESOLVED that the meeting be adjourned.

Approved on: _____
Date

Signature