

# Lake Isle and Lac Ste. Anne Stewardship Society

## Executive Meeting:

March 25, 2025 @ 7:00 PM

Online via Zoom

In attendance: Bernie Poulin, Kelsie Norton, Keir Paker, Debbie Durocher, Kevin Louch, Ray Hutschal

Regrets and Absent: Michelle Desjardins, Michael Findlater, Connie Stonehouse, Brian Brady, Tracy Friedel (Guests): Dawn Watts, Native Plant Specialist; Medieval Manor Gardens, Wayne Fraser (Lake Isle), Kruti Shukla (EM Fluids), David Fung (EM Fluids), Gary Titosky (Lake Isle)  
Meeting start: 7:04 PM - Bernie P. provided the Land Acknowledgement Statement.

1. **Approval of the agenda**, Additions: None

MOTION: Keir moved the adoption of the agenda as amended - passed.

2. **Approval of the Minutes** for February 25, 2025, MOTION: Minutes not shared.

3. **EM Fluids** (Equilibrium Modulating Fluids). NOT electromagnetic waves.

Alberta Environment approval to do a pilot in Lake Isle. Minister is supportive. Hoping to catch the data as we go through this pilot.

- Challenge trying to resolve: High nutrient and loading, requires lots of processing (biological and chemical). Depletes oxygen. Shifts from aerobic to anaerobic system. Anaerobic means more sludge, less digestion, nutrient recycling. Lots of blooms.
- 10 years of research + development. Can commercialize. 34 patents in past 5 years. Many more pending. Able to change properties of water by less than 1 watt of stimulus. Effect is right around the stimuli – not the rest of waterbody. Impacting molecule right next to stimulate, then that cascades to next molecule. No impact to fish. Radius of 220 meters. Able to change viscosity and surface tension. Can double the gas transfer. Easy install, easy maintenance. Able to continue oxygenation 24/7. More oxygen, more nitrification bacteria, less anaerobic bacteria. Not adding anything or killing anything, we are feeding the good bacteria. We are decreasing the competitiveness of cyanobacteria. Allowing exit channel for nutrients entering system. Successful case studies in Thailand and Brazil.
- Also success with wastewater and sewage processing. Same process - reduces dredging and green house gas emissions.
- Help Needed: Communicate to everyone on lake to let them know we are doing. Haven't been able to get grants for data collection. Need \$\$ for water testing.
- Lake Isle – Looking to deploy in three areas with higher concentrations. WRT movement: don't need to cover entire water body. Strategic place near point of entry of nutrients. Then rest of water body is healthy. Impact on phosphorus. Phosphorus decreases due to growth of diatoms and better algae, or it gets embedded in sediment.

LILSA COMMENTS: Listened, heard info. LILSA not able to commit support or finances currently. Feel greater preparation is required. Bernie to email EM Fluids: Suggest it should happen next summer to give time to educate, understand liabilities (should be responsible of EM Fluids), ensure appropriate approvals in place, cost of scientists should be covered by EM Fluids. LILSA would be willing to help with educating people.

#### 4. Financials:

Bank balance as of February 28: \$18,152.72

Invoice for Domain Name Services - \$265.00 for 5 years.

Alberta Beach, Val Quentin, Sunset Point, and Yellowstone have paid the \$500 amounts.

Hold off on Domain Name Services invoice till Michelle comes back.

MOTION: Kevin moved the adoption of the financial as presented. -passed

#### 5. Outreach / Web Page Update No update.

#### 6. Project Updates:

Ray - Quantity of water, and Weir Project

Bernie - Flowering Rush Program

Kelsie - Water Quality.

#### 7. Action Items

- Send email regarding the Maverick project – Ray { 03/25 – No update}
- Investigate findings from the field sampling of the creeks (Creek Watch) – Kelsie (Regarding the Creek Watch monitoring results from Lake Isle's tributaries, the summer field staff have uploaded their data to <https://www.riverwatch.ca/science-data/>. They can view their data directly on that page with the locations under North Saskatchewan Watershed: Sunset Point & Gunn Creek, Val Quentin Bridge Creek, Trestle Creek, and Sunset Shores Creek. These are the only locations where data was collected from the sites they provided me. Also, a data report will be generated for each location and will be released on March 22, World Water Day.)
- Hi res images and draft creation of material for booth materials. – Michelle (WIP) {03/25 – No update}
- Contact Nicole Kimmel for spring availability – Bernie (WIP) {03/25 - Had reached out to Nicole. Haven't heard back.}
- A pamphlet to be designed for promotion. – Michelle (WIP) {03/25 – No update}
- Coordinate dates to have a booth at her farm in conjunction with Alberta Open Farm Days for a more public Coordinate for August awareness (WIP) {03/25 – No update}

#### 8. Round Table

##### Bernie -

- 3 person crew mobilized last week of June. Till Aug 31.
- Met with Grant McEwan. More interested in evasive species policies in our province. Bernie will attend their class, then pressure govt.
- Bernie has two festival dates from summer villages. Collecting from others.

##### Kelsie -

- Minister Shulz / Hunter - \$18 million over 3 years – sniffer dogs, boats – targeting Zebra mussels.
- CD3 Units – Couple being deployed around St Albert to Morinville. 4 units. Cleaning unit and to promote education.
- , Wind, and Soil Erosion Seminars upcoming. Opportunities to learn.
- Wake <https://myemail.constantcontact.com/You-re-Invited--<br>.html?soid=1101570578805&aid=4xnXc03AWhY>
- Hired someone to backfill for Kelsie. “Erin”

##### Dawn -

- Will be working on door handle info
- Did a workshop with gardening club recently. Will forward that info to the group.

9. **Other**

10. Next Meeting: April 29, 2025, 7:00 pm, via Zoom. May also try to meet in person. Bernie to check with Debbie on availability.
11. Adjournment @ 8:23PM

DRAFT