

## HLA Lake Committee Meeting

Called 6:35 PM

Members present are in bold:

**Sheri Berger, Anthony Grandazzo, Jay Cassella, Victoria Nicholson, James Nicholson, David Chalifoux**

Guest: **Brendan McCarthy, Alex Adkins** from SOLitude

The following discussion regarding Oxygen Saturated Technology (OST) to address the muck build up issue with Alex leading the conversation and answering questions.

Highlights of the presentation from Alex:

- 1) Comprehensive Survey of Hidden Lake
  - a. Water Quality
  - b. Vegetation/Algae identification
  - c. Bathymetry mapping
- 2) Questions we want to answer
  - a. Current depth/volume of muck
  - b. Oxygen and water quality
  - c. Variations at inlet and coves
  - d. Cost of listed tasks, approximately \$16,800
- 3) Submerged aeration and Bacteria augmentation includes:
  - a. On shore QuietAir™ Cabinet (1.5 HP, 230VAC, 2 to 3 units, size is approximately 2ft x 3 ft x 30 inches) approximately \$50 to 80K
  - b. Warranty: Compressor 3 yr, Unit 15 yr
  - c. 5 visits per year for bacteria augmentation approximately \$16,400 per year
- 4) Other possibilities
  - a. Dredging (cost prohibitive)
  - b. Hydro-raking
    - Data received, is out dated
    - Permit/mobilization, demo-mobilization (no disposal) approximately \$6000
    - With disposal, \$1400/acre
- 5) Nano bubbler not recommended based on lake size (contradicts Pond and Lake Connection recommendation)
- 6) Vertex manufactures the QuietAir hardware, purchased by SOLitude
- 7) Lake depth vs. number of diffuser units based on:
  - a. Water content
  - b. Muck content
  - c. Environmental conditions

- 8) References are TBD
- 9) Possibility of solar power will need battery backup to run without sun
- 10) Bathmetric map is required to start the process**

Meeting Closed 7:40 PM