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## JD2 AND MILLER BAY PROJECT TEAM MEETING NOTES

04/15/2024 | 9AM to 11:00am

### Sauk River Watershed District Office

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#### Attendees

**JD2 PT In person:** Steve Zeece III (SRWD), Jon Roeschlein (SRWD), Ken Rutten (Douglas SWCD), David Zerr (SRWD), Bruce Magnus (OLA), Susan Capitola (Landowner), Jerry Rapp (Douglas County), Randy Neumann (Todd County), Paul Hartmann (SRWD)

**Virtual via Teams Link:** Danielle Anderson (Douglas SWCD), John Maile (MN DNR), Janice Hauri (Landowner), Troy Bednarz (Landowner) Peter Allen (USACE), Jim Noren (USACE), Drew Kessler (Houston Engineering).

The meeting recording was initiated.

#### JD2 PAS Study Progress

- **Agenda Item: Discuss Lake Survey Plan-**
  - Drew Kessler, Houston Engineering presented on the Osakis Survey Plan to be conducted during open water season of 2024 (presentation slideshow is attached to the email sent with this document and is also available upon request).
  - **Overview- JD2 Alternatives Analysis**
  - **Task 1** – Establish Current Conditions (In progress – Winter 2024)
  - Survey Lake & Monitoring Records
- Survey Goals
  - Establish material infilling rate across the Lake
  - Get characteristics of materials from lake

#### BOARD OF MANAGERS

Bill Becker, David Zerr,, Paul Hartmann, Kevin Lahr, Donovan McKigney, Scott Klatt, Scott Wittkop, Eugene Mensen, and Russel Miller

#### STAFF

Melissa Roelike, Jon Roeschlein, Allison Lightfoot, Galen Gruber, Steve Zeece III, Abigail Parker Allison Schugel

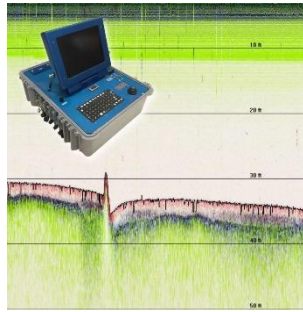
“Water Quality Is Our Concern”



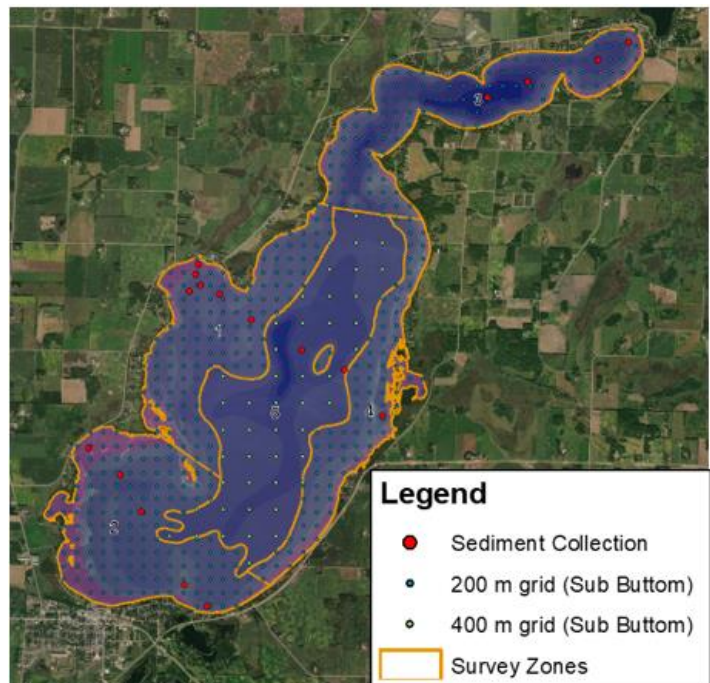
- Update Phosphorus internal loading estimates
- Results support broader planning efforts for managing Osakis and surrounding watershed
- Survey by Zones
- 200 m transects in shallow zones (< 20 feet)
- 400 m transects in deep zones (> 20 feet)
- Kayak based vibracore in very shallow areas (< 2 feet)
- 18 Sediment samples for internal P loading
- 2-person survey crew on a pontoon with kayak for shallow water
- Pontoon will dock in SE end of Lake
- District Staff will support HEI at times
- Boat and staff will have HEI logos so that residents can recognize us

**Equipment List**

1. VibeCore (shallow and standard)
2. Specialized mounting equipment
3. Speed of sound profiler
4. 3-frequency sub-bottom profiler <https://specialtydevices.com/>
5. Gravity Core (CLRR Sediment Coring Guide (youtube.com))



- o Watershed Source Assessment
- o Lake Response Modeling
- o **Task 2** – Establish Goals and Alternatives (Fall 2024 – Winter 2025)
- o Set achievable goals for improving Osakis and JD2
- o Identify possible alternatives for improvements (up to 50)
- o **Task 3** – Assess Alternatives (Winter 2025 – Spring 2025)
- o Field survey alternative sites
- o Assess possible benefits of alternatives
- o Task 4 – Develop comprehensive plan (Winter 2025 – Summer 2025)
- o Develop plan to improve Lake Osakis and JD2





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- **Post Processing**

- Characterizing Sediments
- Incubation for reactive P, Redox-sensitive P, Biologically-labile P, Bulk Density
- UW Stout Center for Limnological Research & Rehabilitation
- Sub-bottom survey
- Develop hard bottom and top depth grids utilizing multiple techniques
- Incorporate uncertainty from interpolation methods
- Provide best estimate of material fill volumes
- Package results for use in modeling efforts

### **Agenda Item: Lake Association Led Efforts**

The Osakis Lake Association is leading three separate efforts and have entered an agreement with the Sauk River Watershed District to share data from each individual effort to be utilized in the Army Corp Alternatives Analysis, and will count toward to local 50% match requirement (\$240k Needed). With OLA's Contributions, all match funding for the Alternatives Analysis has been sourced.

OLA will conduct:

- Sediment Core Dating in Millers Bay with the UofM/Science Museum St Croix Research Laboratory
- Invasives management/survey. Invasives, particularly Curly Leaf Pond Weed (*Potamogeton crispus*) is known to be highly influential in phosphorous uptake and internal loading/release.
- Outlet modification feasibility study with hydrology and hydraulic modeling and data inputs

### **Agenda Item: BWSR Grant Application**

Projects and data from the Army Corps Alternatives Analysis will be converted and used to draft a Feasibility Study, required in watershed law to order and establish and construct capital improvement projects. The Sauk River Watershed District has applied for funding from the State of Minnesota's Board of Water and Soil Resources Fiscal Year 2024 Water Quality and Storage Grant Program. We estimate that 10-20 USACE PAS Alternatives will be brought forth into the feasibility study. The grant award notice is May 22<sup>nd</sup>, 2024.

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**"Water Quality Is Our Concern"**



**Agenda Item- Close out and Next Meeting**

At the end of the meeting, publicizing the activities was discussed. The group agreed that the SRWD will work with the Osakis Lake Association to provide outreach materials through SRWDs & OLA's mailing lists, Websites, Osakis Anchor, Echo Press, and other area publications.

The next meeting is tentatively scheduled for May 20<sup>th</sup> 2024, if there are sufficient topics to discuss.