



Lake Killarney Board Regular Meeting Minutes

January 7, 2025 at 10:00 AM

City Hall Commission Chambers
401 S. Park Avenue

Present

David L. Dickerson (Virtual), Jason K. Ellison, Joyce D. Cunningham, William Voecks, Brian King

Absent

Carolyn Minear, Ellen Hencken

Staff Present

Director of Natural Resources and Sustainability Gloria Eby, Assistant Director of Public Works Don Marcotte; Public Works Engineer Shannon Monahan, Lakes Division Manager Joseph Cordell, Administrative Assistant Victoria Tabor

Also Present:

Orange County Senior Environmental Specialist Nidia Volpe

1. Call to Order

Jason Ellison called the meeting to order at 10:05 a.m.

2. Consent Agenda Approve the minutes of December 4, 2024

Motion made by Mr. Ellison to approve the minutes, adding the date December 3, 2024, instead of "yesterday", seconded by Mr. Voecks. Motion carried unanimously with a 5-0 vote.

3. Public Comments (for items not on the agenda)

4. Public Hearings (Public participation and comment on these matters must be in person.)Action Items

6. Non-Action ItemsStaff Updates

a. Orange County Update

Ms. Volpe provided an update on the easement for the pipe improvement project on John Mitchell's property, noting that negotiations are still ongoing. In the next Orange County Board meeting, scheduled for March, a cost estimate for weekly street sweeping rates for Orange County streets will be presented.

b. Lakes Management

Mr. Cordell presented the following updates:

Lake Elevation: Lake Killarney's water levels were recorded from November 24 through December 23.

Water Quality: Slides showing the Trophic State Index (TSI), phosphorus, nitrogen, and clarity levels were presented. It was noted that there is a six-month lag time in receiving these results from the laboratory.

Maintenance Efforts: The data was updated to be displayed in graph format.

Treatments: Treatments for pondweed were postponed due to cold weather conditions. Spot treatments for hydrilla were conducted in November and December, and treatments for hyacinth were applied in the canal and cove area, specifically in the north lobe. It was recommended to report any sightings of hydrilla to the lakes team.

During Lakes update, a request was made for a year-over-year analysis of the factors contributing to the upward trends in nitrogen and phosphorus levels. Ms. Eby defined what point sources and non-point sources were and their differences. Nitrogen, in correlation with other parameters such as chlorophyll and phosphorus, indicates that elevated nitrogen is displaying non-point source characteristics and it is suspected to be hydrologically driven. Emphasis that more data collection and data trend establishment is necessary to see if elevated storm events is a driving these increases. Conducting nitrogen speciation, via isotope work, is an analysis that can potentially derive a point source however it is expensive. Currently, Lake Killarney is not scheduled for sediment composition re-evaluation until 2027 or 2028, per the nutrient study conducted and when the alum treatment is cited to no longer inactivate phosphorus. She mentioned that the main body of the lake is stable and buffering nutrients well, reminding that the cove and canal is affected by its morphology and due to the confinement, hydrology can affect water quality via resuspension of sediments. Ms. Eby also noted that although the frequency of sampling has changed, the methodology has remained consistent. It was discussed that if nitrogen levels reach impairment thresholds in the lakes, the board will be notified. Mr. Ellison asked about eelgrass and effects on water quality and nitrogen, Ms. Eby discussed eelgrass and the role it has with the phosphorus cycle.

Mr. Cordell informed that one tree near Killarney Bay Condos, one tree in the north lobe, and several at-risk trees in the outfall have fallen and will be removed in the coming week. The open dock violation at 1321 Fairview Ave. will be included in the next agenda.

Mr. Cordell presented the upcoming events

c. Upcoming Events

- Howell Branch Preserve Litter - 1/25/25 9am @ Howell Branch Preserve Park
- State of the City - 1/31/25 8:30am @ WP Event Center
- Tree Planting - 2/8/25 9am @ Howell Branch Preserve

d. Stormwater Management

- CIP Update
 - Killarney Dr. Pipe Replacement Project Timeline
 - Lake Front Construction Updates
 - Exfiltration Locations on Lake Killarney
 - Street Sweeping Update
 - Western Major Basin Study Update
- Ms. Monahan advised that there are no changes to the overall CIP list.

The St. John's River Water Management District has issued the permit for the Killarney Drive pipe replacement and construction is set to start in February.

The private exfiltration letters were mailed out. The only business with an exfiltration system on the shoreline of Lake Killarney is located at 111 N Orlando and it is in compliance. Ms. Monahan was asked about city-owned exfiltration systems and also septic systems. She explained the differences between private and city exfiltration facilities and also septic systems. She said that the city also conducts monthly inspections and maintenance as needed for city-owned exfiltration systems. Discussion led to the existing exfiltration system, located at the library parking lot, related to design and function and concerns for increasing the parking size. Ms. Monahan corrected by reiterating that the new parking lot will have a surface swale system as opposed to an exfiltration system which serves the current parking lot. She further provided the function of the surface swale providing run-off capture for first flush rainfall to the new swale then to Lake Mendsen. Mr. Voecks voiced concerns of the condition of existing parking lot corner stating it was not working correctly. It was clarified by staff that the system is functioning correctly and what is being describe by Mr. Voecks is the overflow of the parking which is by design. Further, a one-on-one discussion with Mr. Voecks was suggested. Mr. Ellison questioned if other exfiltration systems existed, it was clarified that exfiltration systems are in place in various locations in the City, not only in the Lake Killarney Basin. A discussion regarding inflows to Lake Killarney from Lakes Bell and Mendsen occurred, and a suggestion was made to present a map showing the flow of Winter Park lakes at an upcoming meeting and was pointed out that it exists in the Basin Studies conducted.

The street sweeping contract is still under review.

The next step with the Western Major Basin Study is to focus on Lake Mendsen, which involves the conceptual designs of the pump station and its expansion and connection to Lake Rose. Ms. Monahan addressed a concern regarding possible contaminants from Lake Rose flowing into Lake Mendsen and subsequently into Lake Killarney. Preventative testing conducted approximately two years ago indicated that no known contaminants from the previous dry cleaners were present in Lake Rose. The Florida Department of Environmental Protection (FDEP) does annual testing at the site and the underground plume, with results shared with the city. It's important to note that the underground plume flows to the southeast, which does not affect either Lake Mendsen or Lake Rose. In the unlikely event that both lakes were to equalize, the system is

designed with a weir to prevent backflow into Lake Mendsen. The board will receive updates on the Western Basin Study projects as they develop.

Follow-Up Items:

- BMP Feasibility Study for Killarney Dr. Outfall Consolidation (when available)
- Outfall Condition Update

It was recommended to remove the follow-up item regarding the Best Management Product (BMP) feasibility study for the Killarney Drive Outfall Consolidation, as this information is included in the Killarney Drive project update. Ms. Monahan presented the Killarney Drive project plans, which include the addition of a SNOUT oil and debris separator in the inlet, as well as two new inlets to replace two older ones. The snout debris will be cleaned on a monthly basis, and the oil skirt will be replaced when it becomes saturated. The old inlets and existing outfalls will be abandoned. Ms. Monahan will contact the manufacturer to determine if there is an indicator for when the oil skirt has reached saturation.

Ms. Eby asked Dave Zusi to update the board on the lift station document, but she has not received response from him.

8. Board Comments

- a. Discussion of Public Comments Received

9. Upcoming Agenda Items

- a. Upcoming Agenda Items

Keep projects on the agenda until completed.

- b. Summary of Meeting Action Items

Ms. Eby provided a summary of the meeting:

1. Provide the oil media BMP specification.
2. Keep items on the agenda until they are completed, specifically the Killarney Drive Outfall, which will be consolidated with the BMP.
3. Discuss any updates regarding basin study projects.
4. Mr. Zusi is requested to provide the board an update on private lift station agreement and new position efforts.

10. Adjournment

The meeting adjourned at 10:52 a.m.

Approved by the board on February 5, 2025
/s/ Bahiyyah Layton, Board Coordinator