



Lake Killarney Board Regular Meeting

Agenda

April 3, 2024 @ 10:00 AM

City Hall Commission Chambers
401 S. Park Avenue

welcome

Agendas and all backup material supporting each agenda item are accessible via the city's website at cityofwinterpark.org/meetings/ and include virtual meeting instructions.

assistance & appeals

Persons with disabilities needing assistance to participate in any of these proceedings should contact the City Clerk's Office ([407-599-3277](tel:407-599-3277)) at least 48 hours in advance of the meeting.

"If a person decides to appeal any decision made by the Board with respect to any matter considered at this hearing, a record of the proceedings is needed to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based." (F.S. 286.0105).

please note

Times are projected and subject to change.

1. Call to Order**2. Consent Agenda**

- a. Approve the (amended) minutes of February 20, 2024 1 minute

3. Public Comments (for items not on the agenda): Three minutes allowed for each speaker**4. Public Hearings (Public participation and comment on these matters must be in person.)****5. Action Items****6. Non-Action Items**

- a. Private Lift Station Update - David Zusi 10 Minutes

7. Staff Updates

- a. Orange County Update 10 Minutes

- b. Lakes Management 10 Minutes

- Natural Resources Conservation Services (NRCS) Update
- Water Quality
- Maintenance & Efforts
- Violations

Follow-Up Items

- Work Session Prioritization List

- c. Stormwater Management 10 Minutes

- CIP update
- Nicolette Pond, Killarney Dr. Pipe Replacement, & Lake Bell Weir Project Timeline
- Lake Front Construction Updates
- Maintenance & Operation of Stormwater Treatment System for the Library and Event Center

Follow-Up Items:

- BMP Feasibility Study for Killarney Dr Outfall Consolidation
- Outfall Condition Update
- Exfiltration System Maintenance Agreement Update

8. Board Comments

- | | |
|---|-----------|
| a. Discussion of Public Comments Received | 5 Minutes |
|---|-----------|

9. Upcoming Agenda Items

- | | |
|------------------------------------|-----------|
| a. Upcoming Agenda Items | 5 Minutes |
| b. Summary of Meeting Action Items | 5 Minutes |

10. Adjournment



Lake Killarney Board

agenda item

item type

Consent Agenda

meeting date

April 3, 2024

prepared by

Rene Cranis, City Clerk

approved by**subject**

Approve the (amended) minutes of February 20, 2024

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

1. Amended minutes 02-07-24



Lake Killarney Board Regular Meeting Minutes

February 7, 2024 at 10:00 AM

City Hall Commission Chambers
401 S. Park Avenue

Present

Carolyn Minear, David L. Dickerson, Ellen Hencken, Jason K. Ellison, Jeanne Wall, Joyce D. Cunningham, William Voecks.

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 and Orange County Lake Killarney Board Members Conrad Necrason and Langdon Stanley.

1. Call to Order

The meeting was called to order at 10:01 a.m.

Motion made by Jeanne Wall to add to the agenda discussion of the National Pollutant Discharge Elimination System (NPDES) Presentation under Staff Updates, seconded by William Voecks. Motion unanimously with a 7-0 vote.

2. Consent Agenda

- a. Approve the minutes of the regular meeting on December 6, 2023

Mrs. Wall noted the addition of language under the Boathouse/Dock Application at 2054 Lake Drive which states "Later clarified that no action was taken on the application to provide more information to the board, and to further clarify that additional information would be provided to the board and that the application was not denied; it was not approved."

Mrs. Wall suggested amending the minutes adding the address of the at-risk vessel (400 Killarney Drive) and the dock violation (1321 Fairview Avenue).

Motion made by Mr. Dickerson to approve the December 6th minutes as noted; seconded by Ms. Cunningham. Motion unanimously with a 7-0 vote.

- b. Approve the minutes of the regular meeting on January 3, 2024

Mrs. Wall suggested amending the minutes by adding the section "Staff Present," add the address of the at-risk vessel (400 Killarney Drive) and the dock violation (1321 Fairview Avenue) at the bottom of Page 3, add the date of the Lake Killarney spill (July

7, 2022) at the end of the first paragraph under Item 6a; and to attach the letter as referenced in the motion just prior to Board Comments.

Motion made by Mr. Ellison to approve the minutes with amendments by Mrs. Wall; seconded by Mr. Dickerson. Motion unanimously with a 7-0 vote.

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

Robert Kunzweiler, 2000 Lake Drive (on the canal where dredging is underway), said he understood cutting and removal of trees on the bank were not a part of the project. He said trees are being removed above the water line, the bank is being scraped the bank is being rebuilt, which he hopes will be replanted with grass. Mrs. Eby stated that funding for the canal work is specific to sediment removal and that a separate purchase order for bank stabilization and beatification has been created. Staff explained the plans for bank stabilization and revegetation/beautification which was a part of staff's update for today's meeting.

4. Public Hearings

5. Action Items

6. Non-Action Items

a. Orange County Water Quality Reporting Process

Marcia Anderson Clark, Quality Assurance Officer with Orange County Environmental Protection Division (EPD) gave a presentation on the function of their processes for collecting lake water samples as it relates to hold times, analysis, data entry and validation, and reporting. She responded to questions providing additional details on the process and confirmed that it could take up to four months to return the data to the city. As an example, Mrs. Wall stated September data was received in February. Mrs. Eby said this is the industry standard and is acceptable to staff. Ms. Clark added that there is a quicker turnaround time for incidences of bacteria or turbidity sampling such as hurricanes. Mrs. Eby stated her appreciation for EPD to turn-around Lake Killarney bacteria samples so quickly during time of need.

7. Staff Updates

a. Orange County Update

Nidia Volpe reported that the insurance issues relating to Chuck Robinson, contractor for sediment and sandbar removal, have been resolved and the purchase order should be issued soon to begin sandbar removal on Blue Heron. The newsletter has been finalized and will mailed out soon.

Mrs. Wall asked for the status of the stormwater retrofit project on the Orange County side of Lake Killarney, she believes by John Mitchell's house. Ms. Volpe said she will get the status from Public Works and provide an update in the next meeting.

Add-on to the Agenda: National Pollutant Discharge Elimination System (NPDES)

Ms. Monahan gave the background and requirements of this program as a result of the Clean Water Act of 1972 to ensure compliance with state water quality standards. She explained the city's separate sanitary and stormwater sewer systems in contrast with combined sewer systems, where stormwater is discharged to wastewater treatment facilities. She outlined point and non-point pollution sources. She noted that Winter Park is a co-permittee with Orange County which also includes other municipalities located in Orange County. Each city/county is required to submit an annual report to the state in November. She provided details on the components of the report and data for the reporting year, May 2022 to April 2023: 2,814 stormwater sewer inspections, 1,738 pounds of phosphorous and 2,711 pounds of nitrogen removed from street sweeping. Ms. Monahan reported on the public involvement efforts and the Numeric Nutrient Criteria (NNC) reported to the state, i.e. alkalinity, color and E-coli. Discussion followed on NNC and efforts to control nutrients and water quality and inclusion of data on the city's report card. Ms. Monahan responded to additional questions regarding flood control and systems, street sweeping, the tree farm used for hurricane debris, visitors to stormwater page on the city's website (increased significantly), proactive illicit discharge inspections (831 previous year). Mrs. Wall commended staff for their efforts and work.

a. Lakes Management

- Winter Biobase Vegetation Mapping – Survey shows the same amount of aquatic coverage with less volume as is expected in winter.
- At -Risk Vessel, 400 Killarney Drive - Vessel was removed. The dock will be removed at a later date.
- Dock Violation, 1321 Fairview Avenue - Case will be taken to the Code Compliance Board since the owner did not comply with the order issued by the Code Compliance Division to submit a permit for repairs within three weeks. Mrs. Eby said the Code Compliance Board will hear the case and has the ability to assess fines and elaborated on the process.
- Trash removal - 225 gallons of debris and 65 gallons of trash were removed.
- Water quality - Increase in Trophic State Index (TSI) noted due to seasonal increase in phosphorus levels which is likely due to rain. The water quality remains good.
- Telemetry station – Lake level was installed with data being collected every hour and updates given every four hours. This information will be available in real time however requires web-development.
- Natural Resources Conservation Services (NRCS) – Vendor is currently working in the canal (scraping material from under docks where the equipment boom can access), expected to be completed in three weeks. The purchase order for the beautification project related to bank was released and work has begun. The city received Keep America Beautiful grant funds to apply where needed.

Mr. Ellison asked if there is a low-cost solution to reduce the sediment on the slipway spillway near the building behind his boat dock. Mrs. Eby said until the area is cleared,

the amount and type of work needed is unknown; however erosion control netting and sodding has been placed as an interim measure.

b. Stormwater Management

CIP Update

Nicolet Pond, Killarney Drive pipe replacement, Lake Bell Weir projects timeline

- Nicolet Pond design is complete and staff is applying for the general permit. Mr. Marcotte provide the history and discussions with Orange County regarding the need to fix the drainage problem on Minnesota Avenue and discussion followed.
- Killarney Drive Pipe Replacement is on schedule after addressing utility issues with construction planned for this summer.
- Lake Bell Weir Repair is on schedule with design development expected by April 1st with construction to begin in the first half of 2025.
- Construction projects (Update slide to state active construction projects). Permit application of Mr. Wolfe will be on the March agenda.

Follow-up Items:

- BMP feasibility study for Killarney Drive outfall consolidation (currently unfunded. It could be added to the end of the next five-year plan cycle - approximately six years from now.
- Outfall condition update
- Exfiltration System Maintenance Agreement Update (being prepared by staff)

Ms. Monahan reported that the Board's request, via e-mail from Mrs. Wall, for a separate line item in the budget for Lake Killarney dredging was presented to the €Commission. The Commission voted to discuss this request as a part of upcoming budget discussions for a line item that encompasses all lakes, not just Lake Killarney. Mrs. Wall expanded on staff's comments stating the commission accepted the recommendation and need to set aside funding for all of the lakes and made a motion to "include in budget discussions (as a separate line item)."

8. Board Comments

- a. Discussion of Public Comments Received

9. Upcoming Agenda Items

- a. Upcoming Agenda Items

Staff will consolidate the list of items from the work session and regular meeting for the next meeting. It was suggested prioritizing review of the requirements and rules for boat dock and boat house requirements in the lobe and little lake as it relates to the big lake. Staff will provide the prioritized list with responsible departments. Discussion followed on the complexities of applying code standards specifically to Lake Killarney and conflicts as to other city lakes and Lakes and Waterways Board.

Mrs. Eby reported that Killarney Elementary is a Title I school with disadvantaged

students within the Lake Killarney Community. The Sustainability Division is looking at opportunities to support the students in need. She asked if there was interest in the board to participate. Discussion was held on board focus and priorities - not tied to board responsibilities. Staff to submit ideas to board.

Mrs. Wall asked if a letter was sent to Stacy McGarity. Mr. Cordell replied yes. Manhole update was requested.

The July meeting is moved to July 11th.

b. Summary of Meeting Action Items

- Provide a summary of work session.
- Exfiltration agreement reporting update
- Orange County - status storm pipe
- Status code enforcement of dock
- Manhole update

10. Adjournment

The meeting was adjourned 11:45 a.m.

Approved by the board on
/s/ Victoria Tabor, Administrative Coordinator



Lake Killarney Board

agenda item

item type

Non-Action Items

meeting date

April 3, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Private Lift Station Update - David Zusi

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

None



Lake Killarney Board

agenda item

item type

Staff Updates

meeting date

April 3, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Orange County Update

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

None



Lake Killarney Board

agenda item

item type

Staff Updates

meeting date

April 3, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Lakes Management

- Natural Resources Conservation Services (NRCS) Update
- Water Quality
- Maintenance & Efforts
- Violations

Follow-Up Items

- Work Session Prioritization List

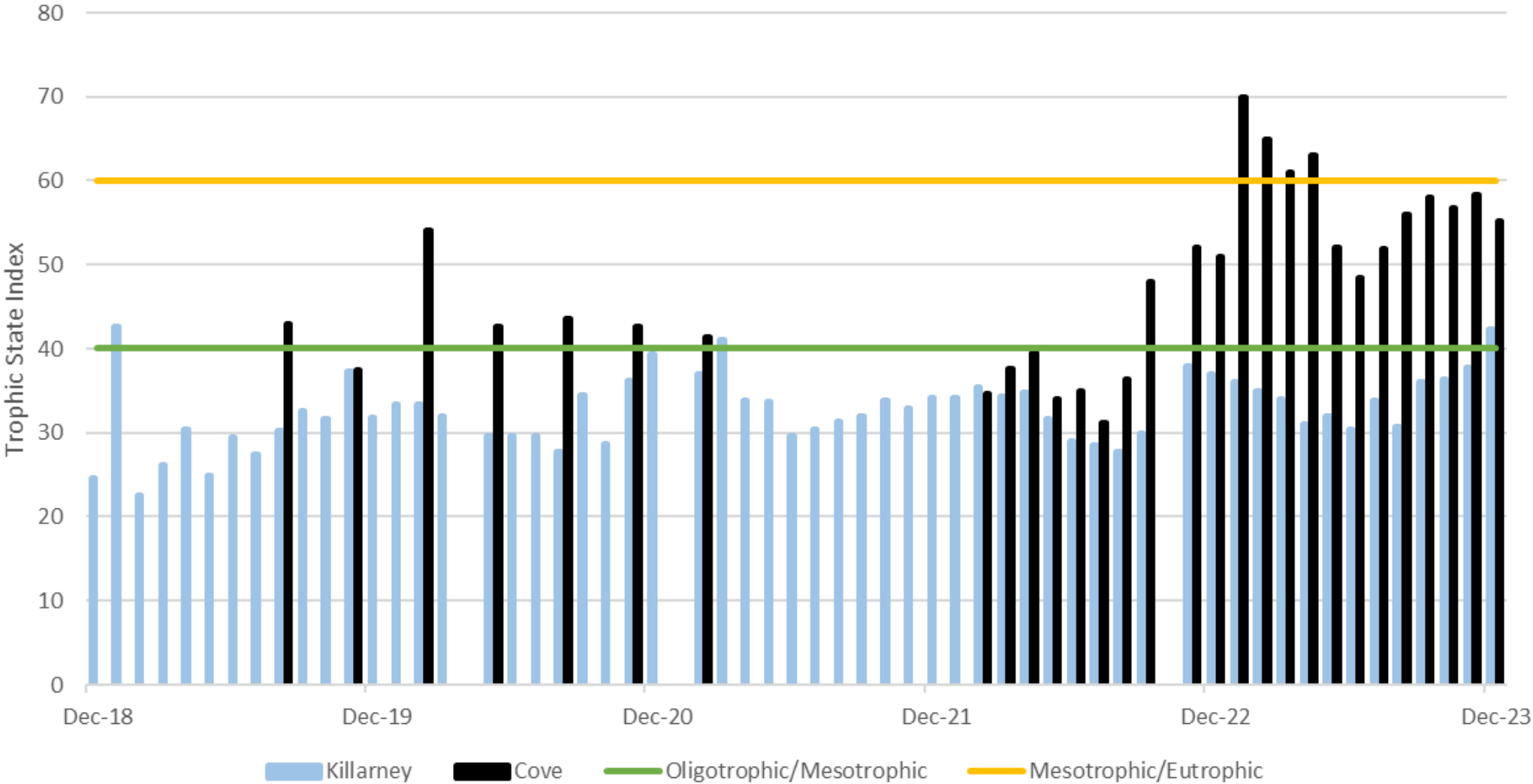
motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

1. Lake Update 04.2024

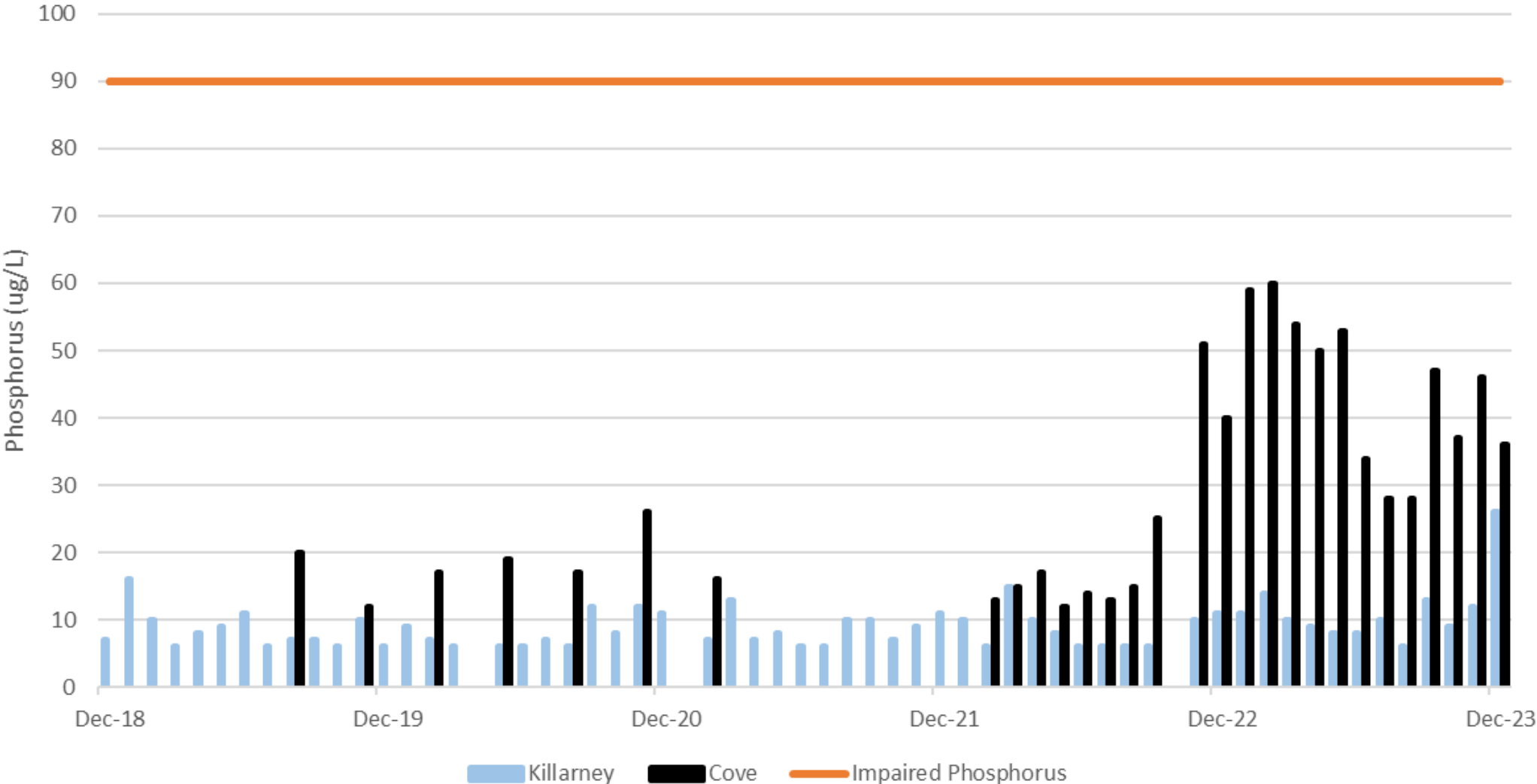
LAKE UPDATE:

- Sediment Removal for Natural Resources Conservation Services (NRCS)
- Water Quality
- Violations
- Maintenance and Efforts:
 - 350 gal Debris Removed
 - 95 gal Trash Removed

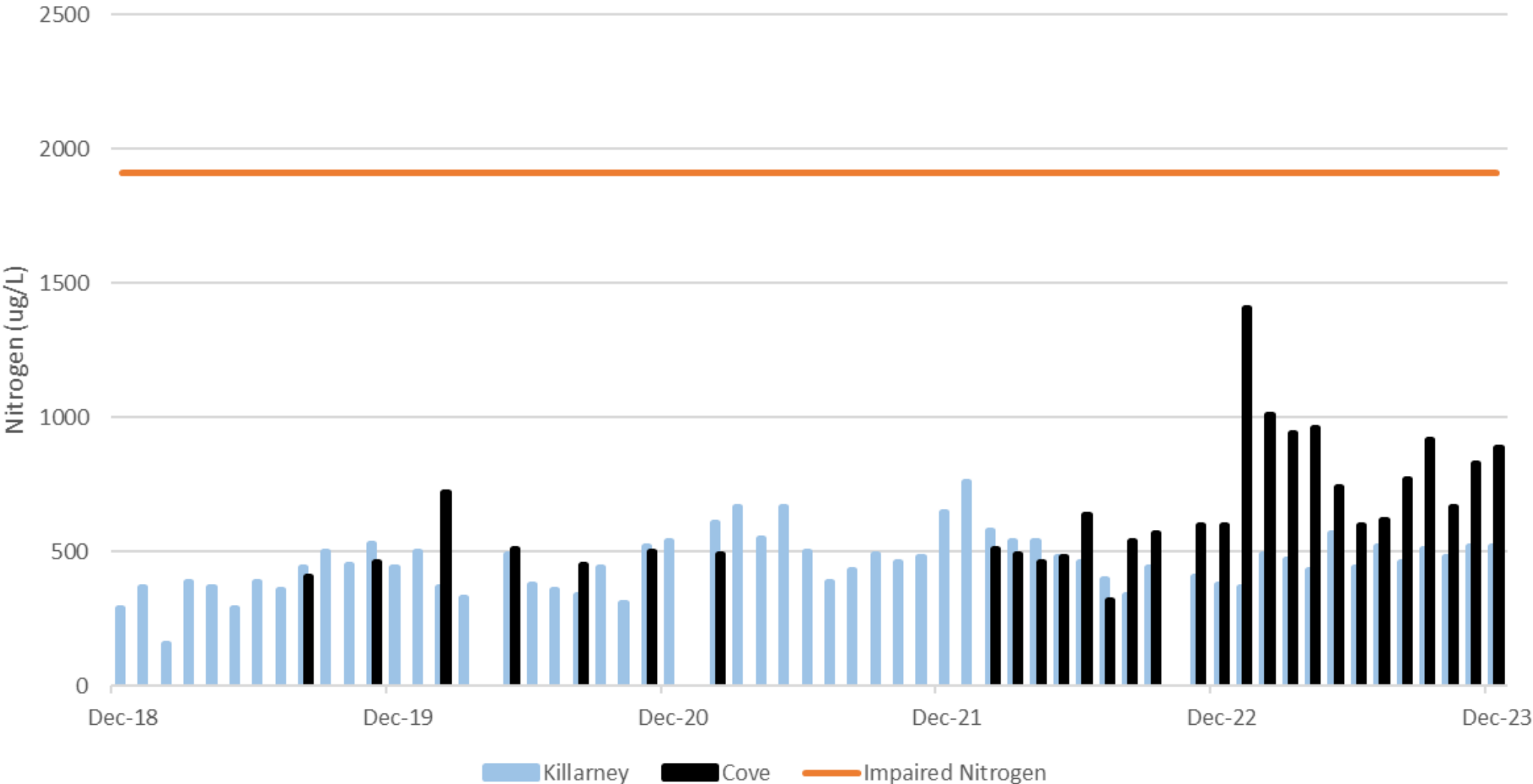
Trophic State Index (TSI) Comparison



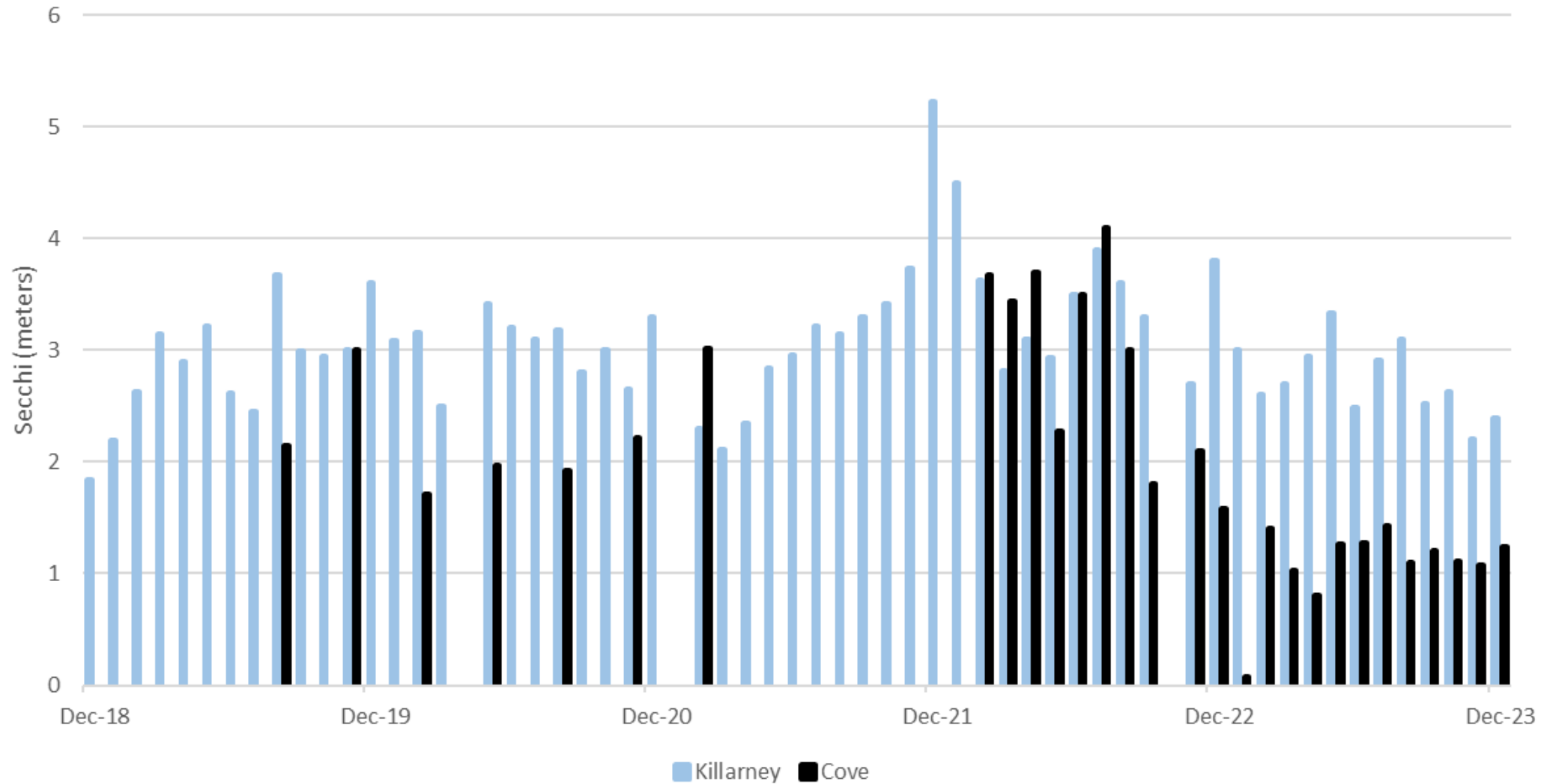
Phosphorus (TP) Comparison



Nitrogen (TN) Comparison



Clarity Comparison











Lake Killarney Board

agenda item

item type

Staff Updates

meeting date

April 3, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Stormwater Management

- CIP update
- Nicolette Pond, Killarney Dr. Pipe Replacement, & Lake Bell Weir Project Timeline
- Lake Front Construction Updates
- Maintenance & Operation of Stormwater Treatment System for the Library and Event Center

Follow-Up Items:

- BMP Feasibility Study for Killarney Dr Outfall Consolidation
- Outfall Condition Update
- Exfiltration System Maintenance Agreement Update

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact**

attachments

1. SW Update 4.24 Lake Killarney Board

Stormwater Staff Update

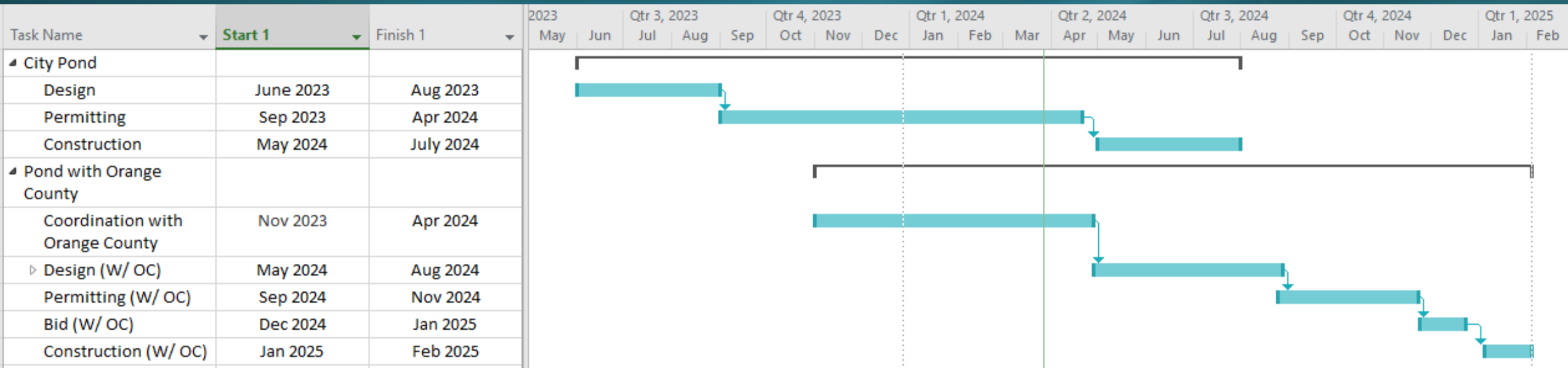
Lake Killarney Board Stormwater CIP – Fiscal Year 2024

ACCT #	CIP Title & Description	Original Year Funded	Current Balance	Status/Comments
565200	Drainage Improvements - Recent years of unusually heavy rainfall events have revealed several substandard drainage conditions in various locations throughout the City.	Annually Funded	\$129,200	Several in-house drainage improvements projects for 2023-24 - Completed replacement of 70ft of 24 inch RCP crossing Joeline Court, and 120ft of 18 inch HDPE at the north end of Laurel Road. Upcoming - add another inlet and pipe at 1622 Arbor Park Drive, increase pipe size at 1642 Arbor Park Drive, storm pipe replacement/relocate at 2601 & 2631 Temple Drive.
				1) <u>Palmer at Old England outfall repair</u> - Stormwater outfall pipe replacement required. Design is 30% complete, survey is now complete.
				2) <u>Stormwater Outfall Dredging</u> - The City recently entered a new contract, dredging on several stormwater outfalls started in Aug 2023, and will continue as needed.
				3) <u>Ward Park ponds construction</u> - Estimated cost \$150k. NE and NW Pond excavation and sodding is complete. The piping to be installed early 2024.
				4) <u>Pipe Repair at Summer Way</u> - Corrugated metal pipe replacement. 35' has been replaced, another 162' is in progress. Estimated completion late April 2024.
565203	Lk. Bell Weir Outfall Improvements -	2009	\$69,223	Repairs may be required on the Lake Bell outfall weir. Met with consultant on 6/30/23, kick-off meeting with consultant 10/24/23, preliminary improvent plan to be developed Feb 2024.
565221	Seminole County Ditch Piping (along Arbor Park Dr) – Drainage ditch behind the homes along Arbor Park Drive has a shared drainage basin with Seminole County. Funding is provided for the design and construction to pipe the ditch.	2016	\$733,395	The Interlocal Agreement was approved by the City Commission and by the Seminole County Commission. 60% plans completed and submitted to Seminole County. Process to permit with SJRWMD currently underway.
565205	Nicolet Ave Stormwater Pond – complete the design and construction of a stormwater treatment pond on City purchased properties located at 796 & 808 Nicolet Avenue	2023	\$200,000	Commission approved \$200,000 in the City's FY'23 budget. Application for general permit in progress.
565217	Stirling Bridge Replacement	2024	\$250,000	Updates required for price estimate.
565210	Fawsett Road CDS Unit	2024	\$200,000	Seeking permit exemption with SJRWMD.
	Curb Implementation	2024	\$50,000	
	TOTALS			
	3023406 ACTIVE STORMWATER CIP's		\$1,631,818.00	BALANCE TOTAL

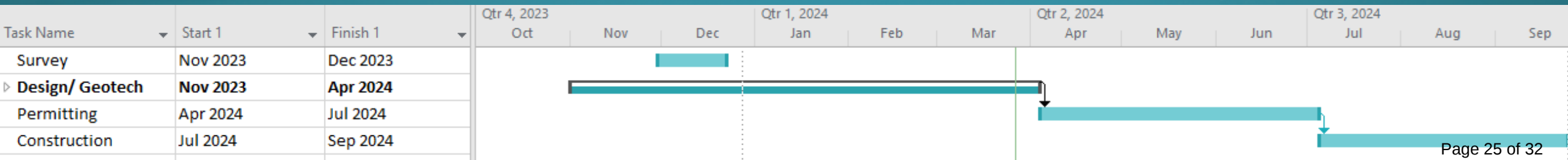
Staff Update - Infrastructure Projects

Lake Killarney Board

Nicolet Pond – Estimated Schedule



Killarney Dr Pipe Replacement – Estimated Schedule



Staff Update - Infrastructure Projects

Lake Killarney Board

Lake Bell Weir Repair – Estimated Schedule

Task	Task Completion date
Task 1 – Geotechnical Evaluation	1/10/2024
Task 2 – Survey	12/10/2023
Task 3 - Wetland Delineation / Wildlife Survey	11/17/2023
Task 4 – Preliminary Improvement Plan	3/2024
Submit to plans to NRCS	3/2024
Task 5 – Design Development	4/1/2024
Task 6 – Permitting*	TBD
Task 7 – Final Design	TBD

Stormwater Staff Update

Lake Killarney Board



Stormwater Staff Update

Maintenance and Operation of Stormwater Treatment System – Library and Event Center

From Manufacturer

Most Recent Inspection:
12/14/2023

ANNUAL INSPECTION & SEASONAL MAINTENANCE PROGRAM

An annual inspection is recommended in the spring after snow events have subsided for the year. The purpose of the annual inspection is to assess the functional condition of the permeable pavers as a structural pavement and stormwater control measure. Once the annual inspection is completed, seasonal maintenance activities should be performed to correct deficiencies identified in the annual inspection.

The following items are minimum requirements for any annual PICP maintenance program:

- ☐ Replenish paver joints with additional aggregate if the level is more than 1/2-inch below the top of the chamfer at the paver surface.
- ☐ Inspect vegetation around PICP perimeter for cover & soil stability. Repair/replant as needed.
- ☐ Inspect and repair all paver surface deformations (depressions/settlement) exceeding 1/2-inch.
- ☐ Repair paver heights offset by more than 1/4-inch above or below adjacent units, or offset by more than 1/8-inch lippage from paver-to-paver.
- ☐ Replace cracked paver units impairing surface structural integrity.
- ☐ Check drains and outfalls (if existing) for the free flow of water. Remove any obstructions.
- ☐ Check observation wells (if existing) to confirm reservoir is draining (based on last measurable rain event).
- ☐ Conduct Seasonal Maintenance and increase frequency based on sediment loading.
- ☐ If evidence of surface clogging exists, test surface infiltration rate using ASTM C1781. If pavement infiltration rate is < 100-inches/hour increase Seasonal Maintenance from annually to quarterly. If surface infiltration rates fall to 10-inches/hour, employ a Remedial Maintenance program utilizing a vacuum sweeper/method to extract affected clogged openings and replace joint space with No. 8, 89 or 9 washed chip aggregates (based on original design requirements). Retest surface infiltration rate to confirm reinstated areas exceed 100-inches/hour. Repeat the remedial process as needed to exceed the 100-inches/hour criteria.

BELGARD®**BELGARDCOMMERCIAL.COM**

Stormwater Staff Update

Lake Killarney Board

- Follow-up items:
 - BMP feasibility study for Killarney Dr Outfall Consolidation (when available)
 - Outfall Condition Update
 - Exfiltration System Maintenance Agreement Update



Lake Killarney Board

agenda item

item type

Board Comments

meeting date

April 3, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Discussion of Public Comments Received

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

None



Lake Killarney Board

agenda item

item type

Upcoming Agenda Items

meeting date

April 3, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Upcoming Agenda Items

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

None



Lake Killarney Board

agenda item

item type

Upcoming Agenda Items

meeting date

April 3, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Victoria Tabor, Administrative Coordinator II

subject

Summary of Meeting Action Items

motion | recommendation**background****strategic objectives****alternatives | other considerations****fiscal impact****attachments**

None