



Lake Killarney Board Work Session

Agenda

February 7, 2024 @ 8:30 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. Discussion of Item(s)**

- | | |
|--|------------|
| a. Strategic Planning Session | 1 Hour |
| b. National Pollutant Discharge Elimination System (NPDES) | 15 Minutes |

3. Adjournment



Lake Killarney Board

agenda item

item type

Discussion of Item(s)

meeting date

February 7, 2024

prepared by

Victoria Tabor, Administrative Coordinator II

approved by

Charisma Lowery, Board Coordinator

subject

Strategic Planning Session

motion | recommendation**background**

Board member Mr. Voecks suggested, and the board subsequently approved, to hold a work session, so all board members can be on the same page with items important to the Lake Killarney Advisory Board initiatives for the new year. The following list was feedback compiled from several board members as items to contribute to the work session discussion.

strategic objectives**alternatives | other considerations****fiscal impact****attachments**

1. Lake Killarney Work Session List

Lake Killarney Work Session List

- Any updates with the annexation of Winter Park, especially as I live on the unincorporated side of the lake.
- To know more about the growing number of gators in the canal/cove
- Clean not only trash and debris from all major lake inputs but in the long term remove chemicals and fertilizers from the input. (Better Lake Quality)
- Learn about Developer events/projects earlier so that we may have input/impact into what is dumped into our lake.
- See example/actual agreement regarding requirements for underground retention systems and related cleaning process and timing.
- Require maintenance agreements for above ground retention systems.
 - The affect over time of sand, silt, organic material and debris reducing the effective water storage area that reduces capacity and getting that capacity back
- Trash and recycle bins being place over storm drains with “drains to lakes” placards being on the storm drains and not moving them after collection.
- I’d like to explore the feasibility of modifying specs and requirements for docks and sea walls for the smaller “lobes” of Lake Killarney
- CRS – The status of the city joining the Community Rating System (CRS). Who is the point person on this project?
- ACCESSING MONEY – The status of the city replacing their grant writer and who specifically is charged with knowing possible sources of money, and is focused on writing the grants and following up on the grants available, as it relates to our aging infrastructure.
- NPDES – Review the NPDES filing including all attachments. This document and attachments should preferably be emailed to the board at least a week before the workshop so the board can preview before we meet.
- LAKE ROSE – The status of Lake Rose and possible contamination levels. What’s the latest update on the testing and results?
- RECONFIGURING DRAINAGE – The city staff have discussed possible plans to redo the roadway around where the Imperial Laundry was, near Lake Rose. What drainage changes are contemplated and are there plans to connect Lake Rose to any lake that flows, or overflows, into Lake Killarney? How might the board participate in these discussions and potential changes around Lake Rose, especially as it relates to connecting this lake to Lake Killarney? This same discussion as it relates to MLK POND.
- NEW RETENTION POND – Nicolette Pond permitting process and design.
- CONDITION REPORT OF LK STORMWATER SYSTEM – Status of the report on mapping and the condition evaluation of all stormwater outfalls on or around Lake Killarney /cove/ canal. Who’s responsible for this project and any update, or is a partial report review possible? I know the city hired an engineering firm and that report is due in about a year; however, I believe Shannon was working on this. Is this still in the works at the staff level?
- NEW ENHANCEMENTS FOR LK – Where might it be good to include a CDS box if stormwater pipes and outfalls are updated, consolidated and fixed? Will the board be part of this discussion? Are there federal or state funds available for these types of expensive corrections and enhancements? I know staff always considers this enhancement; however, maybe the board could assist with encouragement to the commission to access funds for these environmentally beneficial devices.
- POSSIBLE ANNEXATION – Status and involvement in any city plans to annex the other side of Killarney from Orange County to WP? Where might our board fit into this discussion? Will there be a thorough review of the aging infrastructure on the Orange County side of the lake?
- PRIVATE LIFT STATIONS – Status of private lift station inspection and reporting program to monitor the maintenance compliance of private lift stations in Winter Park or WP’s jurisdiction.

- **COMMUNICATION WITH RESIDENTS** – Status of online “Lakes Dept.” Dashboard for residents? When Gloria she first joined the city, she indicated she wanted to create a dash board on the city website for residents. Is that an initiative still in the works and discuss the status?
- **NEW DEVELOPMENT NOTIFICATION** – Is there a way for city staff to notify the board when there is proposed development under review that would create runoff and stormwater levels that may affect Lake Killarney. Example the 54 townhomes on Webster and Swoope that were just approved that will drain into LK and how this project started at 74 units.
- **LIBRARY AND EVENT CENTER** – Status of adding parking or more hard surface to the project? Would our board be part of these discussions as it relates to changes around this facility and runoff or reconfiguring MLK POND?
- **BOAT HOUSE AND DOCK INSPECTION** – After a boat house or dock is approved by the board, is there a way the Lake’s staff could circle back to the board and inform them that the permitted dock or boathouse was built and landscaped in accordance with the permit issued? The process of the building department staff doing this inspection leaves the Lake staff to rely on them and no reassurances are given to the board the structure was completed and is in compliance. Example, Ms. Bell on Lake Drive.
- **LAKE SURVEY REPORT** – When staff conducts a lake survey, is there a report they prepare and could this be provided to the board without much effort? This could include a review of any docks and boat houses that might be in an unsafe condition and track the resolution of the situation with an update to the board?



Lake Killarney Board

agenda item

item type

Discussion of Item(s)

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prepared by

Victoria Tabor, Administrative Coordinator II

approved by

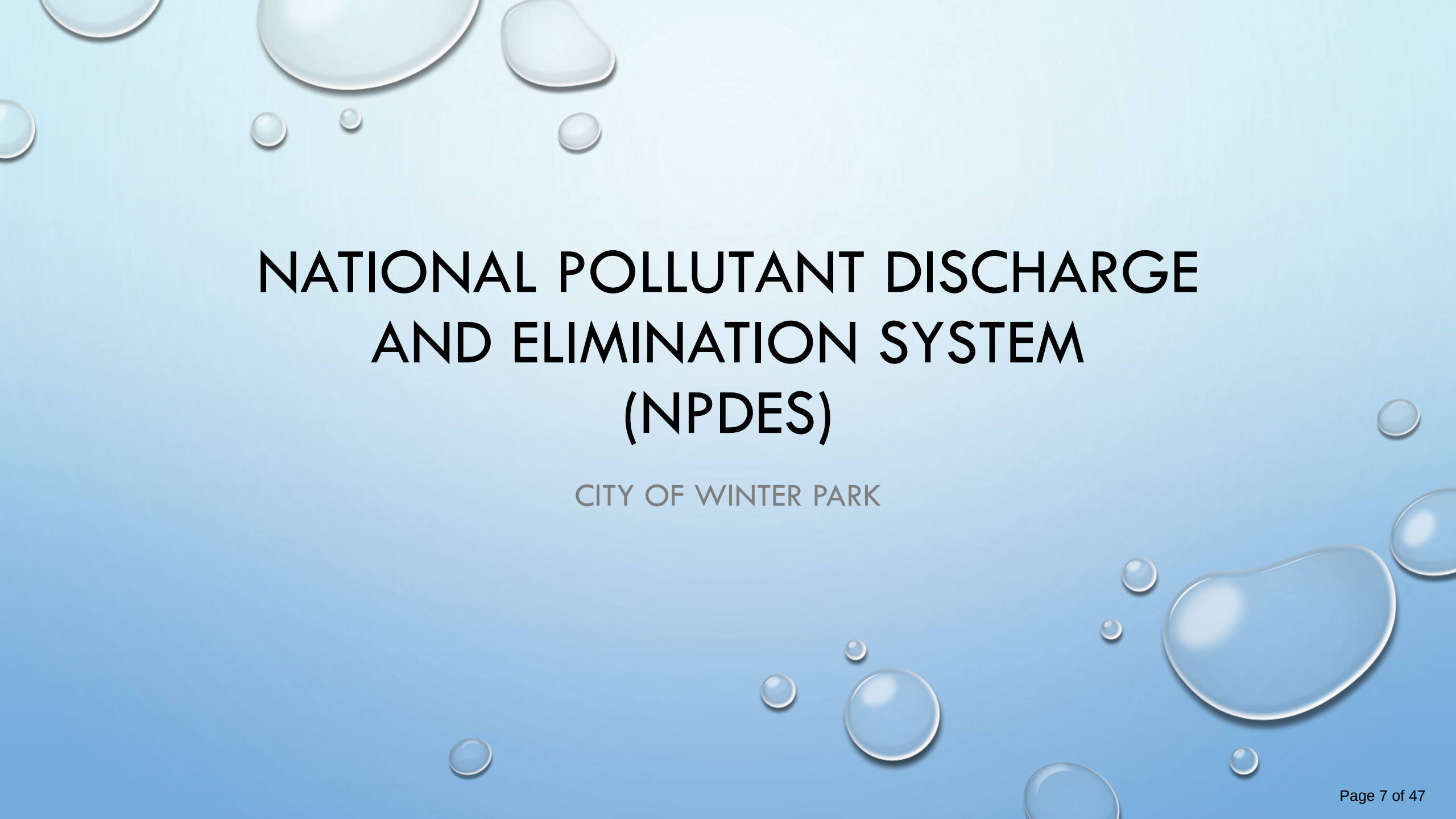
Victoria Tabor, Administrative Coordinator II

subject

National Pollutant Discharge Elimination System (NPDES)

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

1. NPDES Presentation
2. Annual Report P4Y7
3. Monitoring Summary

The background is a light blue gradient with several realistic water droplets of various sizes scattered across the surface. The droplets have highlights and shadows, giving them a three-dimensional appearance.

NATIONAL POLLUTANT DISCHARGE AND ELIMINATION SYSTEM (NPDES)

CITY OF WINTER PARK

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)

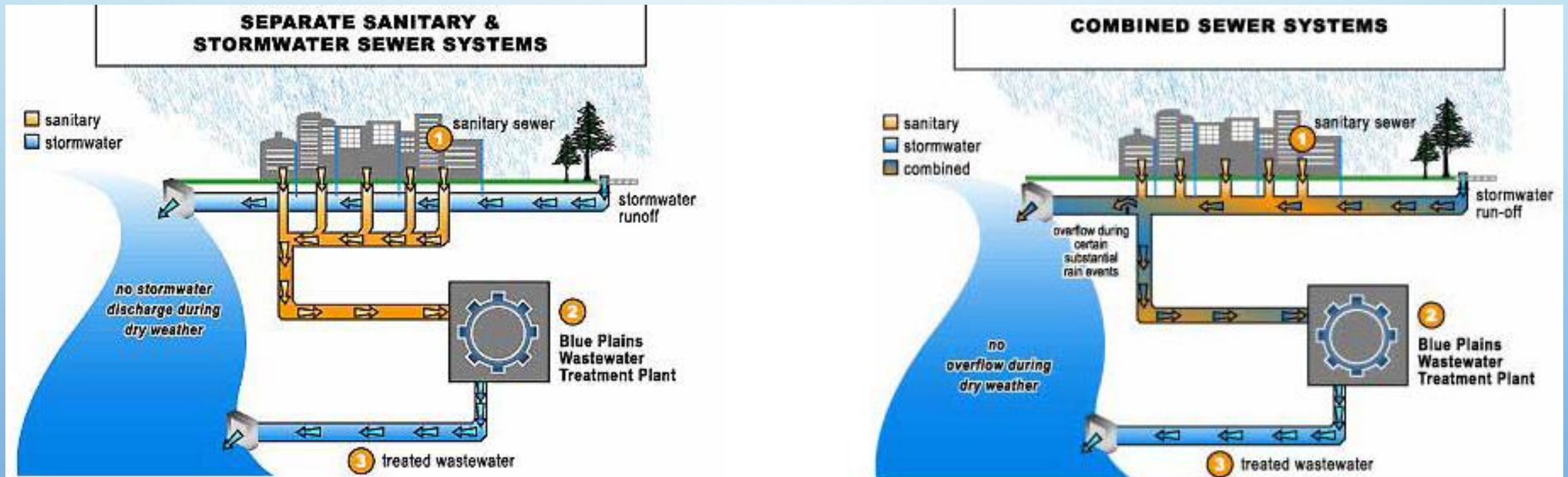


Image: NOAA

WHAT IS NPDES?

- CREATED IN 1972 BY THE CLEAN WATER ACT
- NATIONAL PROGRAM ADDRESSING WATER POLLUTION
- ENSURES STATE WATER QUALITY STANDARDS FOR CLEAN WATER ARE MET
- REGULATES POINT SOURCE POLLUTION FROM MS4



If it goes in here...



It ends up here!

POINT VS. NONPOINT POLLUTION SOURCES

POINT SOURCES

- PIPE
- DITCH
- CHANNEL
- WELL
- FLOATING CRAFT

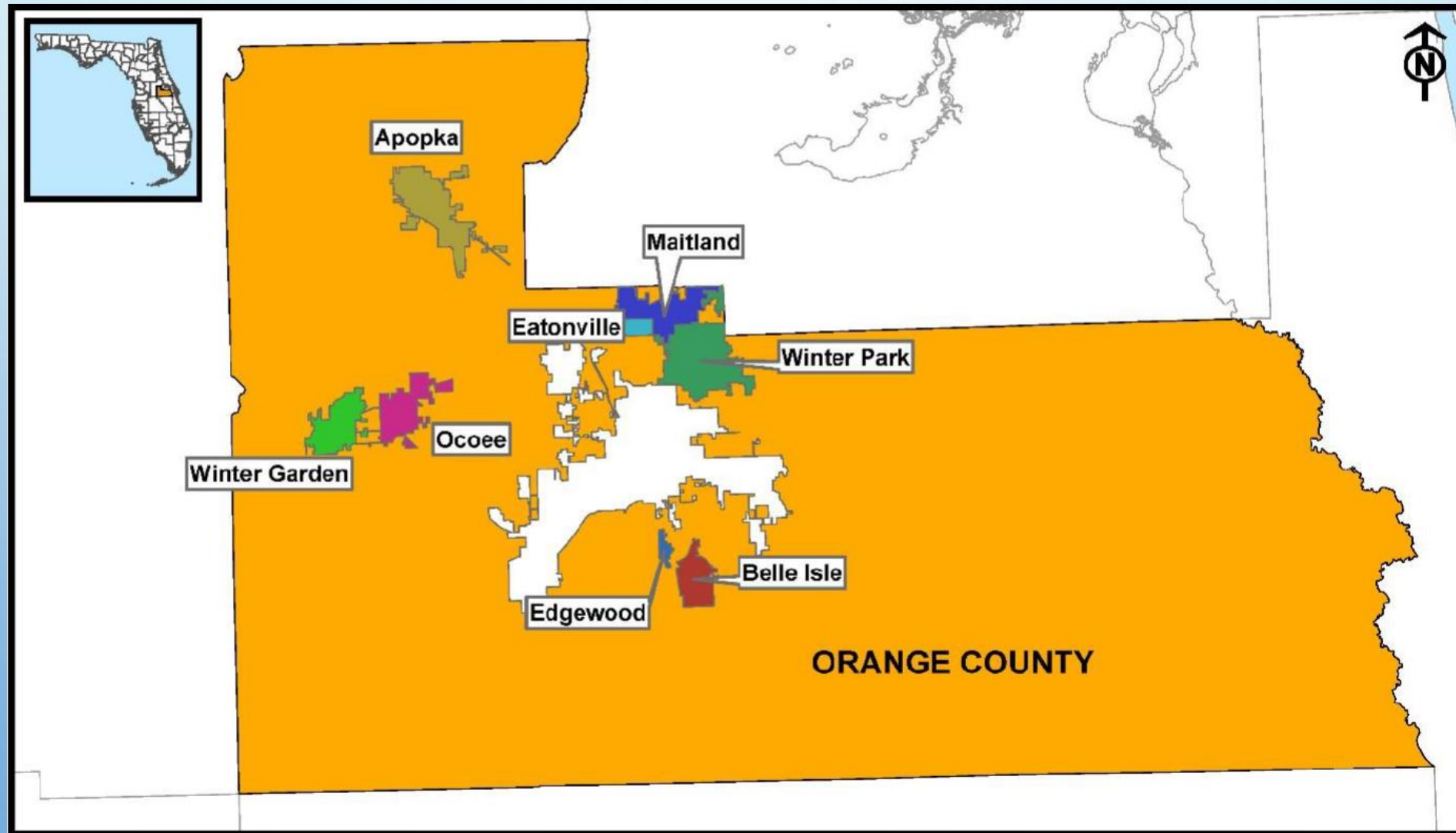


NONPOINT SOURCES

- EXCESS FERTILIZERS, HERBICIDES AND INSECTICIDES
- OIL AND GREASE FROM URBAN RUNOFF
- SEDIMENT FROM CONSTRUCTION SITES
- BACTERIA FROM PET WASTES
- FAULTY SEPTIC SYSTEMS



ORANGE COUNTY NPDES PERMIT CO-PERMITTEES



CITY PROGRAMS TO PREVENT POLLUTANT DISCHARGE VIA MS4

- STORM SEWER INSPECTIONS AND MAINTENANCE
 - 2,814 INSPECTIONS IN YEAR 7
- INSTALLATION OF POLLUTION CONTROL BOXES (BMPS)
 - CDS UNITS, BAFFLE BOXES, LEAF TRAPS, RETENTION PONDS
 - 809 INSPECTIONS IN YEAR 7
- PROACTIVE ILLICIT DISCHARGE INSPECTIONS
- PROPER LAKES MANAGEMENT



CITY PROGRAMS TO PREVENT POLLUTANT DISCHARGE VIA MS4

- SANITARY SEWER LINING
- CONSTRUCTION SITE BEST MANAGEMENT PRACTICES
 - INSPECTIONS AND ENFORCEMENT
- STREET SWEEPING
 - 1,738 LBS OF PHOSPHOROUS AND 2,711 LBS OF NITROGEN REMOVED FROM MS4
- PUBLIC INVOLVEMENT
 - LAKE CLEANUPS, LITTER CONTROL, EDUCATIONAL INFORMATION



CITY OF WINTER PARK

NUMERIC NUTRIENT CRITERIA (NNC)

Table 1. Average Alkalinity, Color, Secchi Disk, E. Coli, and Fecal Coliform Values for W.P. Lakes

	Virginia	Mizell	Osceola	Maitland	Sue	Berry	Killarney	Baldwin
Alkalinity (mg/L as CaCO ₃)	58.1	38.2	53.8	51.6	57.4	38.5	63.1	60.4
Color (PT-CO)	7.4	8.1	8.2	7.0	8.1	10.2	5.4	13.1
Secchi Disk (m)	2.0	3.8	1.8	2.3	2.0	2.4	3.2	2.8
E. Coli (mpn)*	2.5	31.2	2.1	1.6	3.0	2.8	1.7	1.4
Lake Type**	clear/alk.	clear/alk.	clear/alk.	clear/alk.	clear/alk.	clear/alk.	clear/alk.	clear/alk.

Table 2. Annual Geometric Mean Chlorophyll a Values for Large (>60 acres) Winter Park Lakes (mg/L)

	Virginia	Mizell	Osceola	Maitland	Sue	Berry	Killarney	Baldwin
2020	0.007	0.006	0.009	0.005	0.013	0.006	0.004	0.008
2021	0.006	0.003	0.009	0.004	0.016	0.007	0.003	0.006
2022	0.006	0.003	0.010	0.005	0.012	0.006	0.003	0.005
Meets standard?†	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

CITY OF WINTER PARK

NUMERIC NUTRIENT CRITERIA (NNC)

Table 3. Annual Geometric Mean Total Phosphorus Values for Large (>60 acres) Winter Park Lakes (mg/L)

	Virginia	Mizell	Osceola	Maitland	Sue	Berry	Killarney	Baldwin
2020	0.012	0.011	0.010	0.011	0.017	0.012	0.008	0.011
2021	0.013	0.009	0.011	0.010	0.016	0.014	0.008	0.011
2022	0.014	0.008	0.011	0.010	0.018	0.013	0.008	0.013
Meets standard?†	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Table 4. Annual Geometric Mean Total Nitrogen Values for Large (> 60 acres) Winter Park Lakes (mg/L)

	Virginia	Mizell	Osceola	Maitland	Sue	Berry	Killarney	Baldwin
2020	0.475	0.494	0.516	0.492	0.553	0.463	0.410	0.579
2021	0.523	0.475	0.544	0.528	0.777	0.564	0.528	0.598
2022	0.542	0.404	0.561	0.426	0.678	0.546	0.468	0.553
Meets standard?†	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

QUESTIONS?



Annual Report Form For Individual NPDES Permits For Municipal Separate Storm Sewer Systems (RULE 62-624.600(2), F.A.C.)

- This Annual Report Form must be completed and submitted to the Department to satisfy the annual reporting requirements established in Rule 62-621.600, F.A.C.
- Submit this fully completed and signed form and any REQUIRED attachments by email to the NPDES Stormwater Program Administrator or to the MS4 coordinator (<http://www.dep.state.fl.us/water/stormwater/npdes/contacts.htm>). Files larger than 10MB may be placed on the FTP site at: ftp://ftp.dep.state.fl.us/pub/NPDES_Stormwater/. After uploading files, email the MS4 coordinator or NPDES Program Administrator to notify them the report is ready for downloading; or by mail to the address in the box at right.
- Refer to the Form Instructions for guidance on completing each section.
- **Please print or type information in the appropriate areas below.**

Submit the form and attachments to:
 Florida Department of Environmental Protection
 Mail Station 3585
 2600 Blair Stone Road
 Tallahassee, Florida 32399-2400

SECTION I. BACKGROUND INFORMATION			
A.	Permittee Name: City of Winter Park		
B.	Permit Name: Orange County MS4		
C.	Permit Number: FLS000011-004		
D.	Annual Report Year: ☐ Year 1 ☐ Year 2 ☐ Year 3 ☐ Year 4 ☐ Year 5 ☒ Other, specify Year: 7		
E.	Reporting Time Period (month/year): 05/2022 through 04/2023		
F.	Name of the Responsible Authority: Donald Marcotte, P.E.		
	Title: City Engineer/Assistant Director of Public Works		
	Mailing Address: 401 S. Park Avenue		
	City: Winter Park	Zip Code: 32789	County: Orange
	Telephone Number: 407-599-3424		Fax Number: 407-599-3417
	E-mail Address: dmarcotte@cityofwinterpark.org		
G.	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Shannon Monahan		
	Title: Engineer I		
	Department: Public Works		
	Mailing Address: 401 S. Park Avenue		
	City: Winter Park	Zip Code: 32789	County: Orange
	Telephone Number: 407-599-3260		Fax Number: N/A
E-mail Address: smonahan@cityofwinterpark.org			

SECTION II. MS4 MAJOR OUTFALL INVENTORY (Not Applicable In Year 1)	
A.	Number of outfalls ADDED to the outfall inventory in the current reporting year (insert "0" if none): 0 (Does this number include non-major outfalls? ☐ Yes ☐ No ☒ Not Applicable
B.	Number of outfalls REMOVED from the outfall inventory in the current reporting year (insert "0" if none): 0 (Does this number include non-major outfalls? ☐ Yes ☐ No ☒ Not Applicable
C.	Is the change in the total number of outfalls due to lands annexed or vacated? ☐ Yes ☐ No ☒ Not Applicable

SECTION III. PART V.B. ASSESSMENT PROGRAM

A.	Provide a brief statement as to the status of <u>water quality monitoring plan implementation</u>. Status may include sampling frequency changes, monitoring location changes, or sampling waiver conditions. <i>DEP Note: If permittee participates in a collaborative monitoring plan, permittee may refer to a joint response as defined by the interlocal agreement.</i> Name and date of the approved plan: City of Winter Park MS4 Stormwater Management Program Assessment Plan Status: Monthly sampling of the major lakes in the City has not changed. The City has continued a quarterly sampling of all smaller lakes in the City which are not directly connected to the main Lake Chain or are not part of the data reported in the NPDES permit.
B.	Provide a brief discussion of the <u>monitoring and loading results</u> to date which includes a summary of the water quality monitoring data and / or stormwater pollutant loading changes from the reporting year. <i>DEP Note: Results must be specific to the permittee's SWMP.</i> Monitoring results from Year 7 are provided in the attached Monitoring Data Summary. State nutrient criteria reference 3 years of data. For this reason, the monitoring summary is based on calendar years (2020-2022 for nutrients). Data was collected in accordance with our approved monitoring/assessment plan for this permit cycle. All of the monitored lakes meet State water quality standards.
C.	Attach a monitoring data summary as required by the permit. An analysis of the data discussing changes in water quality and/or stormwater pollutant loading from previous reporting years. <i>DEP Note: Analysis must be specific to the permittee's SWMP.</i> See the attached.

SECTION IV. FISCAL ANALYSIS

A.	Total expenditures for the NPDES stormwater management program for the current reporting year: \$3,873,817.47
B.	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$4,422,836
C.	Did subsequent program resources decrease from the current reporting period? Y ☐ / N ☒ If program resources decreased, provide a discussion of the impacts on the implementation of the SWMP. N/A

SECTION V. MATERIALS TO BE SUBMITTED WITH THIS ANNUAL REPORT FORM

Only the following materials are to be submitted to the Department along with this fully completed and signed Annual Report Form (check the appropriate box to indicate whether the item is attached or is not applicable):

Attached	N/A	Required Attachments	Permit Citation	Attachment Number/Title
☐	☒	Any additional information required to be submitted in this current annual reporting year in accordance with Part III.A of your permit that is not otherwise included in Section VII below.	Part III.A	
☐	☒	If program resources have decreased from the previous year, a discussion of the impacts on the implementation of the SWMP.	Part II.F	
☐	☒	An explanation of why the minimum inspection frequency in Table II.A.1.a. was not met, if applicable.	Part II.A.1	
☐	☒	A list of the flood control projects that did not include stormwater treatment and an explanation for each of why it did not (if applicable).	Part III.A.4	
☒	☐	A monitoring data summary as directed in Section III.C above and in accordance with Rule 62-624.600(2)(c), F.A.C.	Part VI.B.2.	Attachment 1 – Monitoring Summary
☐	☒	YEAR 1 ONLY: An inventory of all known major outfalls and a map depicting the location of the major outfalls (hard copy or CD-ROM) in accordance with Rule 62-624.600(2)(a), F.A.C.	Part III.A.1	
☐	☒	YEAR 1: A proactive illicit discharge inspection program plan. [For approval by DEP]	Part III.A.7.c	
☐	☒	YEAR 1: A construction site inspection program plan. [For approval by DEP]	Part III.A.9.b	
☐	☒	YEAR 2: A summary review of codes and regulations to reduce the stormwater impact from development.	Part III.A.2	
☐	☒	Year 3 ONLY: The estimates of pollutant loadings and event mean concentrations for each major outfall or each major watershed in accordance with Rule 62-624.600(2)(b), F.A.C.	Part V.A	
☐	☒	YEAR 3: Summary of TMDL Monitoring Results (if applicable).	Part VIII.B.2	
☐	☒	YEAR 3: Bacteria Pollution Control Plan (if applicable).	Part VIII.B.3	
☐	☒	YEAR 4: A follow-up report on plan implementation of changes to codes and regulations to reduce the stormwater impact from development.	Part III.A.2	
☐	☒	YEAR 4: A report on any amendments to the applicable legal authority (if applicable).	Part III.A.7.a	
☐	☒	YEAR 4: Permit re-application information in accordance with Rule 62-624.420(2), F.A.C. • The monitoring plan (with revisions, if applicable). • If the total annual pollutant loadings have not decreased over the past two permit cycles, revisions to the SWMP, as appropriate.	Part V.B.3 Part V.A.3	
☐	☒	YEAR 4: TMDL Supplemental SWMP (if applicable).	Part VIII.B.3	

DO NOT SUBMIT ANY OTHER MATERIALS

(such as records and logs of activities, monitoring raw data, public outreach materials, etc.)

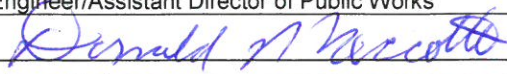
SECTION VI. CERTIFICATION STATEMENT AND SIGNATURE

The Responsible Authority listed in Section I.F above must sign the following certification statement, as per Rule 62-620.305, F.A.C:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Responsible Authority (type or print): Donald J. Marcotte

Title: City Engineer/Assistant Director of Public Works

Signature:  Date: 11-9-23

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE								
A.	B.					C.	D.	E.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity					Number of Activities Performed	Documentation / Record	Entity Perform ing the Activity
Part III.A.1	Structural Controls and Stormwater Collection Systems Operation							
	Report the current known inventory.							
	Report the number of inspection and maintenance activities conducted for each applicable type of structure included in Table II.A.1.a, and the percentage of the total inventory of each type of structure inspected and maintained.							
	<i>Note: Delete structures that are not in your MS4's inventory. The permittee may choose its own unit of measurement for each structural control to be consistent with the unit of measurement in the documentation. Unit options include: miles, linear feet, acres, etc.</i>							
	Type of Structure	Number of Structures	Number of Inspections	Percent Inspected	Number of Maintenance Activities	Percent Maintained		
	Dry retention systems	0	N/A	N/A	N/A	N/A	N/A	N/A
	Underdrain filter systems	0	N/A	N/A	N/A	N/A	N/A	N/A
	Exfiltration trench / French drains (lf)	19	117	100	65	100	Retrofit Inspection Form and Retrofit Maintenance Form	Streets Division
	Grass treatment swales (miles)	0	N/A	N/A	N/A	N/A	N/A	N/A
	Dry detention systems	15	32	46	28	46	Pond Inspection Form and Site Maintenance Form	Lakes Division
	Wet detention systems	14	104	71	73	71	Pond Inspection Form and Site Maintenance Form	Lakes Division
	Detention with filtration systems	1	8	100	1	100	Retrofit Inspection Maintenance Form	Lakes Division Howard Drive pond

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE										
A.	B.					C.		D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity					Number of Activities Performed		Documentation / Record	Entity Perform ing the Activity	Comments
	Alum Injection systems	8	60	100	8	13		Alum Use Form and Retrofit Maintenance Form	Lakes Division	3 out of 8 systems offline for P4Y7, all online systems maintained
	Pollution control boxes	62	488	100	326	100		Retrofit Inspection Log and Retrofit Maintenance Form	Lakes Division	CDS, Suntime and Custom
	pump stations	0	N/A	N/A	N/A	N/A		N/A	N/A	
	Major outfalls	20	122	100	120	100		Outfall Inspection Log, GIS Data Collection & Site Maintenance Form	Stormw ater, GIS & Lakes Division s	
	Weirs or other control structures	4	4	100	0	0		Site Maintenance Form	Lakes Division	
	pipes / culverts (miles)	54	15.0	28	6.3	12		Daily Work Logs	Streets Division	Estimated based on number of inlet inspections. Procedure outlined in Structural Controls SOP
	Canals (each)	6	89	100	19	100		Site Maintenance Form	Lakes Division	
	Inlets / catch basins / grates	2329	2454	100	1142	49		Daily Work Logs	Streets Division	
	Ditches / conveyance swales	17	234	100	200	100		Ditch Inspection Form and Site Maintenance Form	Lakes Division	
	If the minimum inspection frequencies set forth in Table II.A.1.a. were not met, provide as an attachment an explanation of why they were not and a description of the actions that will be taken to ensure that they will be met.									

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Perform ing the Activity	Comments
Part III.A.1 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: Frequent inspections and cleaning of retrofits allowed by dedicated staff positions and equipment				
	Limitations: Added structures increase demand on manpower, large number of underground systems are time consuming to maintain.				
	SWMP revisions implemented to address limitations: Continued emphasis on following Standard Operating Procedures.				
Part III.A.2	Areas of New Development and Significant Redevelopment				
	Report the number of significant development projects, including new and redevelopment, reviewed by the permittee for post-development stormwater considerations.				
	Number of significant development projects reviewed	0	Energov Records	Building and Permitting Services	New Commercial, Residential, Sitework over 1 acre
	Provide in the Year 2 Annual Report the summary report of the review activity. Provide in the Year 4 Annual Report the follow-up report on plan implementation.				
	Year 2 ONLY: Attach the summary report of the review activity	☐	HTE Permit Statistics Report	Building Dept.	Year 2 included only
	Year 4 ONLY: Attach the follow-up report on plan implementation	☐			
Part III.A.2 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: All permit applications are reviewed by Public Works (or the Super Permitter) using a software that tracks all permit information.				
	Limitations: None				
	SWMP revisions implemented to address limitations: No SWMP revisions implemented.				
Part III.A.3	Roadways				
	Report on the litter control program, including the frequency of litter collection, an estimate of the total number of road miles cleaned or amount of area covered by the activities, and an estimate of the quantity of litter collected. <i>Note: If the permittee does not contract activities, delete CONTRACTOR activities.</i>				
	PERMITTEE Litter Control: Frequency of litter collection	Monthly	Watershed cleanup data collection spreadsheet	Sustain ability Planner	

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Perform ing the Activity	Comments
	PERMITTEE Litter Control: Estimated amount of area maintained (acres)	180	Watershed cleanup data collection spreadsheet	Sustain ability Planner	
	PERMITTEE Litter Control: Estimated amount of litter collected (lbs)	971.67	Watershed cleanup data collection spreadsheet	Sustain ability Planner	
	OPTIONAL: If an Adopt-A-Road or similar program is implemented, report the total number of road miles cleaned and an estimate of the quantity of litter collected. If you do not participate in an Adopt-A-Road program, report "0".				
	Trash Pick-up Events: Total miles cleaned	0	N/A	N/A	
	Trash Pick-up Events: Estimated amount of litter collected (cy)	0	N/A	N/A	
	Adopt-A-Road: Total miles cleaned	0	N/A	N/A	
	Adopt-A-Road: Estimated amount of litter collected (cy)	0	N/A	N/A	
	Report on the street sweeping program, including the frequency of the sweeping, total miles swept, an estimate of the quantity of sweepings collected, and the total nitrogen and total phosphorus loadings that were removed by the collection of sweepings. If no street sweeping program is implemented, provide the explanation of why not in column F.				
	Frequency of street sweeping	Bi-weekly	Contractor sweeping logs and dumpster count	Streets Division	
	Total miles swept	2145.6	Contractor sweeping logs and dumpster count	Streets Division	
	Estimated quantity of sweeping material collected (cy / tons)	2,100	Contractor sweeping logs and dumpster count	Streets Division	Cubic Yards
	Total phosphorous loadings removed (pounds)	1738	FSA Load Reduction Tool	Stormw ater Division	
	Total nitrogen loadings removed (pounds)	2711	FSA Load Reduction Tool	Stormw ater Division	
	Report the equipment yards and maintenances shops that support road maintenance activities, and the number of inspections conducted for each facility.				
Name of Facility		Number of Inspections			

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Perform ing the Activity	Comments
	Central Utilities Compound	1	Site Maintenance Form & Central Inspection Form	Stormw ater & Lakes Division s	
	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: Frequent sweeping, community involvement in litter control, educational component included in litter control events				
	Limitations: Heavy tree canopy produces a large volume of leaf litter. Multiple departments and divisions utilize the same maintenance yard.				
	SWMP revisions implemented to address limitations: Sweeping contracted out. Leaves are not stockpiled.				
Part III.A.4	Flood Control Projects				
	Report the total number of flood control projects that were constructed by the permittee during the reporting period and the number of those projects that did NOT include stormwater treatment. The permittee shall provide a list of the projects where stormwater treatment was not included with an explanation for each of why it was not.				
	Report on any stormwater retrofit planning activities and the associated implementation of retrofitting projects to reduce stormwater pollutant loads from existing drainage systems that do not have treatment BMPs.				
	Flood control projects completed during the reporting period	0	N/A	N/A	
	Flood control projects completed that did <u>not</u> include stormwater treatment	0	N/A	N/A	
	Stormwater retrofit projects planned/under construction	2	Stormwater 5 Year CIP	Enginee ring Division	
	Stormwater retrofit projects completed	0	N/A	N/A	
	If there were projects that did not include stormwater treatment, provide as an attachment a list of the projects and an explanation for each of why it did not.	☐	N/A	N/A	
Part III.A.4 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: In house design capabilities provide cost effective means of including treatment components to flood control projects that can accommodate them.				
	Limitations: High groundwater conditions in some areas of the City limit the ability to provide effective treatment.				
	SWMP revisions implemented to address limitations: None				

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Perform ing the Activity	Comments
Part III.A.5	Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an NPDES Stormwater Permit				
	Report the facilities and the number of the inspections conducted for each facility.				
	Name of Facility	Number of Inspections			
	Central Utilities Compound	1	Central Inspection Form	Stormw ater Division	
	Turner Road Parcel	1	Site Maintenance Form	Lakes Division	
Part III.A.5 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: No offsite drainage from Turner Road site, material stockpiling only at both sites, space limits amount of material that can be held.				
	Limitations: Used by multiple departments with relatively uncontrolled access and minimal supervision.				
	SWMP revisions implemented to address limitations: Increased communication between departments on expectations and proper use.				
Part III.A.6	Pesticides, Herbicides, and Fertilizer Application				
	Report the number of permittee personnel applicators and contracted commercial applicators of pesticides and herbicides who are FDACS certified / licensed.				
	Report the number of permittee personnel who have been trained through the Green Industry BMP Program and the number of contracted commercial applicators of fertilizer who are FDACS certified / licensed.				
	PERSONNEL: FDACS public applicators of pesticides/herbicides	6	NPDES Training File	Lakes Dept	
	CONTRACTORS: FDACS commercial applicators of pesticides/ herbicides	0	NPDES Training File	Stormw ater Division	
	PERSONNEL: Green Industry BMP Program training completed	2	NPDES Training File	Stormw ater Division	
	CONTRACTORS: FDACS certified / licensed applicators of fertilizer	0	NPDES Training File	Stormw ater Division	
	Provide a copy of the adopted ordinance with the Year 2 Annual Report. If this provision is not applicable because the permittee is not within the watershed of a nutrient-impaired water body, indicate that in Column F.				
	Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance	☐			
Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage citizens to reduce their use of pesticides, herbicides and fertilizers including the type and number of activities conducted, the type and number of materials distributed, and the number of Web site visits (if applicable).					

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Perform ing the Activity	Comments
	Brochures/Flyers/Fact sheets distributed	0	N/A	N/A	Digital flyers only.
	Neighborhood presentations: Number conducted	6	N/A	N/A	
	Neighborhood presentations: Number of participants	300	N/A	N/A	
	Newspapers & newsletters: Number of articles/notices published	1	Newsletter & Mail Receipt	Stormw ater Division	
	Newsletters: Number of newsletters distributed	1	Newsletter & Mail Receipt	Stormw ater Division	
	Public displays (e.g., kiosks, storyboards, posters, etc.)	3	N/A	N/A	
	Radio or television Public Service Announcements (PSAs)	0	N/A	N/A	
	School presentations: Number conducted	0	Education Outreach Summary	Lakes Division	
	School presentations: Number of participants	0	Education Outreach Summary	Lakes Division	
	Seminars/Workshops: Number conducted	1	N/A	N/A	
	Seminars/Workshops: Number of participants	27	N/A	N/A	
	Special events: Number conducted	0	Education Outreach Summary	Lakes Division	
	Special events: Number of participants	0	Education Outreach Summary	Lakes Division	
	Number of visitors to stormwater-related pages	1,008	Activity Query	Communi cation s Departm ent	Unique Page View
	FYN: Brochure/Flyers/Fact sheets distributed			FYN	
	FYN: Neighborhood presentations: Number conducted			FYN	
	FYN: Neighborhood presentations: Number of participants			FYN	
	FYN: Public displays (e.g., kiosks, storyboards, posters, etc.)			FYN	
	FYN: Radio or television Public Service Announcements (PSAs)			FYN	
	FYN: School presentations: Number conducted			FYN	
	FYN: School presentations: Number of participants			FYN	
	FYN: Seminars/Workshops: Number conducted			FYN	
	FYN: Seminars/Workshops: Number of participants			FYN	

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Perform ing the Activity	Comments
	FYN: Special events: Number conducted			FYN	
	FYN: Special events: Number of participants			FYN	
Part III.A.6 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: Web pages have full time manager and cover relevant topics.				
	Limitations: None.				
	SWMP revisions implemented to address limitations: No SWMP revisions implemented.				
Part III.A.7.a	Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures				
	Report amendments in Year 4.				
	Year 4 ONLY: Attach a report on amendments to applicable legal authority	☐			
Part III.A.7.c	Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit Discharges and/or Improper Disposal				
	Report on the proactive inspection program, including the number of inspections conducted by the permittee, the number of illicit activities found, and the number and type of enforcement actions taken.				
	Proactive inspections for suspected illicit discharges	831	Retrofit Maintenance Forms, Pond and Ditch Inspection Forms,	Lakes Division	
	Inspections performed by Orange County SQG Program	134	SQG inspection database	Orange County	
	Illicit discharges found during a proactive inspection	0	N/A	N/A	N/A
	NOV/WL/citation/fines issued for illicit discharges found during proactive inspection	0	N/A	N/A	N/A
	Year 1 ONLY: Attach the written proactive inspection program plan	N/A	City of Winter Park Code Review	Stormw ater Division	N/A
	Report on the reactive investigation program as it relates to responding to reports of suspected illicit discharges, including the number of reports received, the number of investigations conducted, the number of illicit activities found, and the number and type of enforcement actions taken.				
	Reports of suspected illicit discharges received	4	Illicit discharge forms, warning letter, violation letters, Inspection records	Stormw ater, Enginee ring & Lakes Division s	

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Perform ing the Activity	Comments
	Reactive investigations of reports of suspected illicit discharges etc.	4	Illicit discharge forms, warning letter, violation letters, Inspection records	Stormw ater, Enginee ring & Lakes Division s	
	Illicit discharges etc. found during reactive investigation	4	Illicit discharge file	Stormw ater Division	
	NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation	3	Illicit discharge file	Stormw ater Division	Cleanup fees enforced
	Report the type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training) within the reporting year.				
	Personnel trained	27	Stormwater Coordination MeetingMinutes	Stormw ater Division	Hurricane Ian/ Nicole reduced availability for training.
	Contractors trained	0	N/A	N/A	See III. A. 7. Evaluaton
Part III.A.7.d	Illicit Discharges and Improper Disposal — Spill Prevention and Response				
	Report on the spill prevention and response activities, including the number of spills addressed.				
	Hazardous and non-hazardous material spills responded to	33	Incident response database	Fire-Rescue Dept.	
	Report the type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training) within the reporting year.				
	Personnel trained	69	Training records	Fire-Rescue Dept.	
	Contractors trained	0	N/A	N/A	Interlocal agreement with City of Orlando F.D. used for spills beyond the WPFDD's capabilities

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Perfor ming the Activity	Comments
Part III.A.7.e	Illicit Discharges and Improper Disposal — Public Reporting				
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage the public reporting of suspected illicit discharges and improper disposal of materials, including the type and number of activities conducted, the type and number of materials distributed, and the number of Web site visits (if applicable).				
	Brochures/Flyers/Fact sheets distributed	0	Communications Department	Storm water Divisio n	Digital flyers only.
	Neighborhood presentations: Number conducted	0	N/A	N/A	N/A
	Neighborhood presentations: Number of participants	0	N/A	N/A	N/A
	Newspapers & newsletters: Number of articles/notices published	0	Newsletter & Mail Receipt	Stormw ater Division	
	Newsletters: Number of newsletters distributed	0	Newsletter & Mail Receipt	Stormw ater Division	
	Public displays (e.g., kiosks, storyboards, posters, etc.)	0	N/A	N/A	N/A
	Radio or television Public Service Announcements (PSAs)	0	N/A	N/A	N/A
	School presentations: Number conducted	0	Educational Outreach Summary	Lakes Division Stormw ater Div.	
	School presentations: Number of participants	0	Educational Outreach Summary	Lakes Division Stormw ater Div.	
	Seminars/Workshops: Number conducted	0	Educational Outreach Summary	Lakes Division Stormw ater Div.	
	Seminars/Workshops: Number of participants	0	Educational Outreach Summary	Lakes Division Stormw ater Div.	
	Special events: Number conducted	10	Educational Outreach Summary	Lakes Division Stormw ater Div.	Earth Day Event, Dock Parties

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Perform ing the Activity	Comments
	Special events: Number of participants	353	Educational Outreach Summary	Lakes Division Stormw ater Div.	
	Number of visitors to stormwater-related pages	1,008	Activity Query	Communi cation s Departm ent	Unique Page Views
	Contribute to Water Atlas?	Yes	Water Atlas agreement	Reporte d by Orange County	N/A
Part III.A.7.f	Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control				
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage the proper use and disposal of oils, toxics, and household hazardous waste, including the type and number of activities conducted, the type and number of materials distributed, the amount of waste collected / recycled / properly disposed, and the number of Web site visits (if applicable).				
	Brochures/Flyers/Fact sheets distributed	0	Communication s Department	Stormw ater Division	Digital handouts only
	Neighborhood presentations: Number conducted	0	N/A	N/A	N/A
	Neighborhood presentations: Number of participants	0	N/A	N/A	N/A
	Newspapers & newsletters: Number of articles/notices published	0	Newsletter & Mail Receipt	Stormw ater Division	
	Newsletters: Number of newsletters distributed	0	Newsletter & Mail Receipt	Stormw ater Division	
	Public displays (e.g., kiosks, storyboards, posters, etc.)	0	N/A	N/A	N/A
	Radio or television Public Service Announcements (PSAs)	0	N/A	N/A	N/A
	School presentations: Number conducted	0	Educational Outreach Summary	Lakes Division Stormw ater Div.	
	School presentations: Number of participants	0	Educational Outreach Summary	Lakes Division Stormw ater Div.	

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Perform ing the Activity	Comments
	Seminars/Workshops: Number conducted	0	Educational Outreach Summary	Lakes Division Stormw ater Div.	
	Seminars/Workshops: Number of participants	0	Educational Outreach Summary	Lakes Division Stormw ater Div.	
	Special events: Number conducted	10	Sustainability Planner's Files	Building and Permitti ng Services Dept.	
	Special events: Number of participants	353	Sustainability Planner's Files	Building and Permitti ng Services Dept.	
	Storm sewer inlets newly marked/replaced	41	Inlet Marker Log Sheets	Stormw ater Division	
	Number of visitors to stormwater-related pages	1,008	Activity Query	Commu nication s Departm ent	Unique Page Views
	Contribute to Water Atlas?	Yes	Interlocal Agreement	Reporte d by Orange County	N/A
	Part III.A.7.g	Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage			
	Report on the type and number of activities undertaken to reduce or eliminate SSOs and inflow/ infiltration, the number of SSOs or inflow / infiltration incidents found and the number resolved, and the name of the owner of the sanitary sewer system within the permittee's jurisdiction. Report only the SSOs and inflow / infiltration incidents into the MS4.				
	Owner of the sanitary sewer system	City of Winter Park			

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Perform ing the Activity	Comments
	Activity to reduce/eliminate SSOs and I&I: (description)	TV inspection	CCTV Inspection Reports	Wastew ater Collectio n Division	
	Activity to reduce/eliminate SSOs and I&I: (description)	Pipe lining	FY21 Quarterly Reports	Wastew ater Collectio n Division	
	SSO incidents discovered	19	Overflow Reports	Utility Mainten ance Division	
	SSO incidents resolved	19	Overflow Reports	Utility Mainten ance Division	
	Inflow / infiltration incidents discovered	N/A	CCTV Inspection Report	Wastew ater Collectio n Division	Reduction in personnel resulted in shortage of documentation. New SOPs may be developed.
	Inflow / infiltration incidents resolved	All Plus additional from pipe lining	Sewer Main/Manholes Contractor Invoices	Wastew ater Collectio n Division	Lining work is performed following inspections and does not always fall in the same permit year
Part III.A.7 Summary	For activities required by Part III.A.7: Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: Aggressive inspection and lining program, proactive installation/stationing of alternative power during emergencies.				
	Limitations: Training program not robust.				
	SWMP Revisions implemented to address limitations: Continued emphasis on following training SOPs.				
Part III.A.8.a	Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections				
	Report on the high risk facilities inventory, including the type and total number of high risk facilities and the number of facilities newly added each year.				
	Report on the high risk facilities inspection program, including the number of inspections conducted and the number and type of enforcement actions taken.				

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE								
A.	B.			C.		D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity			Number of Activities Performed		Documentation / Record	Entity Perform ing the Activity	Comments
	Type of Facility	Number of Facilities	Number of Inspections	Enforcement Actions				
	Operating municipal landfills	0	0	0	N/A	N/A	N/A	
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	0	0	0	N/A	N/A	N/A	
	EPCRA Title III, Section 313 facilities (TRI)	0	0	0	N/A	N/A	N/A	
	Areas determined as high risk by the permittee	3	6	0	Retrofit Inspection Form and SW Division inspection reports	Lakes & Stormw ater Division s	List contained in SOP's, 11/24/2020	
Part III.A.8.b	Industrial and High-Risk Runoff — Monitoring for High Risk Industries							
	Report the number of high risk facilities sampled.							
	High risk facilities sampled		0		N/A	N/A		
Part III.A.8 Summary	For activities required by Part III.A.8: Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.							
	Strengths: Frequent inspections of the High Risk areas allow for the identification of any items which may cause non-stormwater discharges more frequently.							
	Limitations: Limited interaction between Public Works and other field staff may have hindered reporting.							
	SWMP revisions implemented to address limitations: Improved training of field/inspection staff from other disciplines.							
Part III.A.9.a	Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices							
	Report the number of permittee and private pre-construction site plans reviewed for stormwater, erosion, and sedimentation controls, and the number approved.							
	PERMITTEE SITES: Construction site plans reviewed		5		EnerGov Permit Records	Building and Permitting Services Dept.		
	PERMITTEE SITES: Construction site plans approved		5		EnerGov Permit Records	Building and Permitting Services Dept.		
	PRIVATE SITES: Construction site plans reviewed		1754		EnerGov Permit Records	Building and Permitting		

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Perform ing the Activity	Comments
	PRIVATE SITES: Construction site plans approved			Services Dept.	
		1186	EnerGov Permit Records	Building and Permitting Services Dept.	
	Report the number of development permit applicants notified of the ERP and CGP, and the number of applicants who confirmed ERP and CGP coverage.				
	Notified of ERP stormwater permit requirements	0	EnerGov Permit Records	Building and Permitti ng Services Dept.	
	Confirmed ERP coverage	0	SJRWMD Permit Search	Stormw ater Div.	
	Notified of CGP stormwater permit requirements	0	EnerGov Permit Records	Building and Permitti ng Services Dept.	
	Confirmed CGP coverage	0	NOI's	Stormw ater Div.	
Part III.A.9.b	Construction Site Runoff — Inspection and Enforcement				
	Report on the inspection program for privately-operated and permittee-operated construction sites, including the number of active construction sites during the reporting year, the number of inspections of active construction sites, the percentage of active construction sites inspected, and the number and type of enforcement actions / referrals taken.				
	PERMITTEE SITES: Active construction sites	5	EnerGov Permit Records	Building and Permitting Services Dept.	
	PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	12	EnerGov Permit Records	Building and Permitting Services Dept.	
	PERMITTEE SITES: Percentage of active construction sites inspected	100			
	PRIVATE SITES: Active construction sites	691	EnerGov Permit Records	Building and Permitting Services	

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE						
A.	B.		C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity		Number of Activities Performed	Documentation / Record	Entity Perform ing the Activity	Comments
	PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs		1246	EnerGov Inspection Records	Engineer ing Div	
	PRIVATE SITES: Percentage of active construction sites inspected		100	Site Inspection Forms	Engineer ing Div	
	Enforcement Action		2	SWO/EnerGov	Engineer ing Div.	
	Year 1 ONLY: Attach the written construction site inspection program plan			City of Winter Park NPDES Permit 4 SOP's	Stormw ater Division	
Part III.A.9.c	Construction Site Runoff — Site Operator Training					
	Report the type of training activities, the number of inspectors, site plan reviewers and site operators trained (both in-house and outside training).					
		DEP Certification	Annual Training			
	Permittee construction site inspectors	7	7	NPDES Training File	Stormw ater Division	
	Permittee construction site plan reviewers		1	Continuing education credits	Engineer I, II, III	
	Permittee construction site operators		6	NPDES Training File	Stormw ater Division	
Part III.A.9 Summary	For activities required by Part III.A.9: Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.					
	Strengths: Experienced, professional review staff, low turnover rate, automated permit tracking system.					
	Limitations: Annual training not robust, permit reviewers stretched thin					
	SWMP revisions implemented to address limitations: Personnel in various departments have been cross trained to spot illicit discharge and erosion control issues.					

SECTION VIII. CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable In Year 4)

A.	Permit Citation/ SWMP Element	Proposed Changes to the Stormwater Management Program Activities Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change) — REQUIRES DEP APPROVAL PRIOR TO CHANGE IF PROPOSING TO REPLACE OR DELETE AN ACTIVITY.
		No changes.
B.	Permit Citation/ SWMP Element	Changes to the Stormwater Management Program Activities NOT Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change)
		No changes.

SECTION IX. TMDL Status Report

A.	YEAR 1 Provide a table summarizing the status of the TMDL process. Include a list of prioritized TMDLs and their monitoring and implementation schedule; and include the Identification number of the outfall prioritized for TMDL monitoring.								
	WBID Number	Segment/ Waterbody/ Basin	Pollutant of Concern	TMDL DEP / EPA	Percent Reduction (WLA)	Priority Rank	Priority Outfall	Monitoring Summary / BPCP Due Date	Supplemental SWMP Due Date
	3014	Crane Strand	Bacteria	X / ☐	N/A	1	N/A	(Year 3 AR)	Year 4 Report
	3023	Crane Strand	Bacteria	X / ☐	N/A	2	N/A	N/A	N/A
	3014	Crane Strand	BCOD	X / ☐	N/A	3	N/A	N/A	N/A
B.	YEAR 3 and annually thereafter, provide a summary of the estimated load reductions that have occurred for the pollutant(s) of concern being discharged from the MS4 to the TMDL water body during the reporting period and cumulatively since the date the Supplemental SWMP was implemented.								
	Year 3: Submit a Monitoring data summary or BPCP (if applicable).								
	Year 4: Submit a Supplemental SWMP (if applicable).								
	WBID Number	Pollutant of Concern	Monitoring Summary / BPCP Submitted	Supplemental SWMP Submitted	Projected load reductions OR Actual load reductions to date				
	3014	Bacteria	(Year 3 AR)	(Year 4 AR; N/A if BPCP)	No calculations have been performed. The City is working to acquire valid samples.				
C.	Provide a brief statement as to the status of TMDL implementation according to Part VIII.B. of the permit (e.g. status of monitoring to validate WLA): The City is continuing to verify the validity of sampling areas and has implemented public education and inspections per the Management Action Plan attached to the P4Y4 Annual Report. No load estimates have been performed to date due to lack of valid sampling areas.								

November 10, 2023



MS4 Coordinator - NPDES Stormwater Program
Division of Water Resource Management
Florida Department of Environmental Protection
2600 Blair Stone Road MS 3550
Tallahassee, Florida 32399

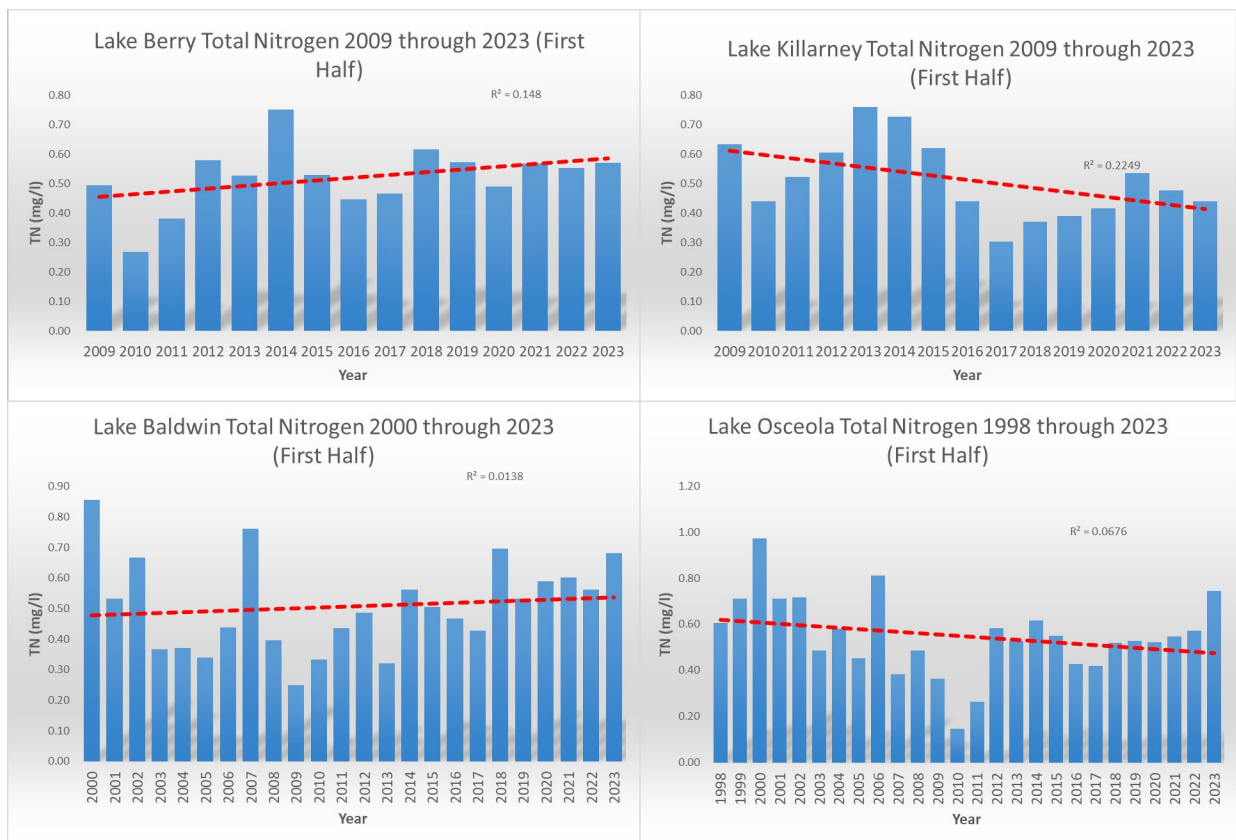
City of Winter Park
401 S Park Avenue
Winter Park, FL 32789
Cityofwinterpark.org

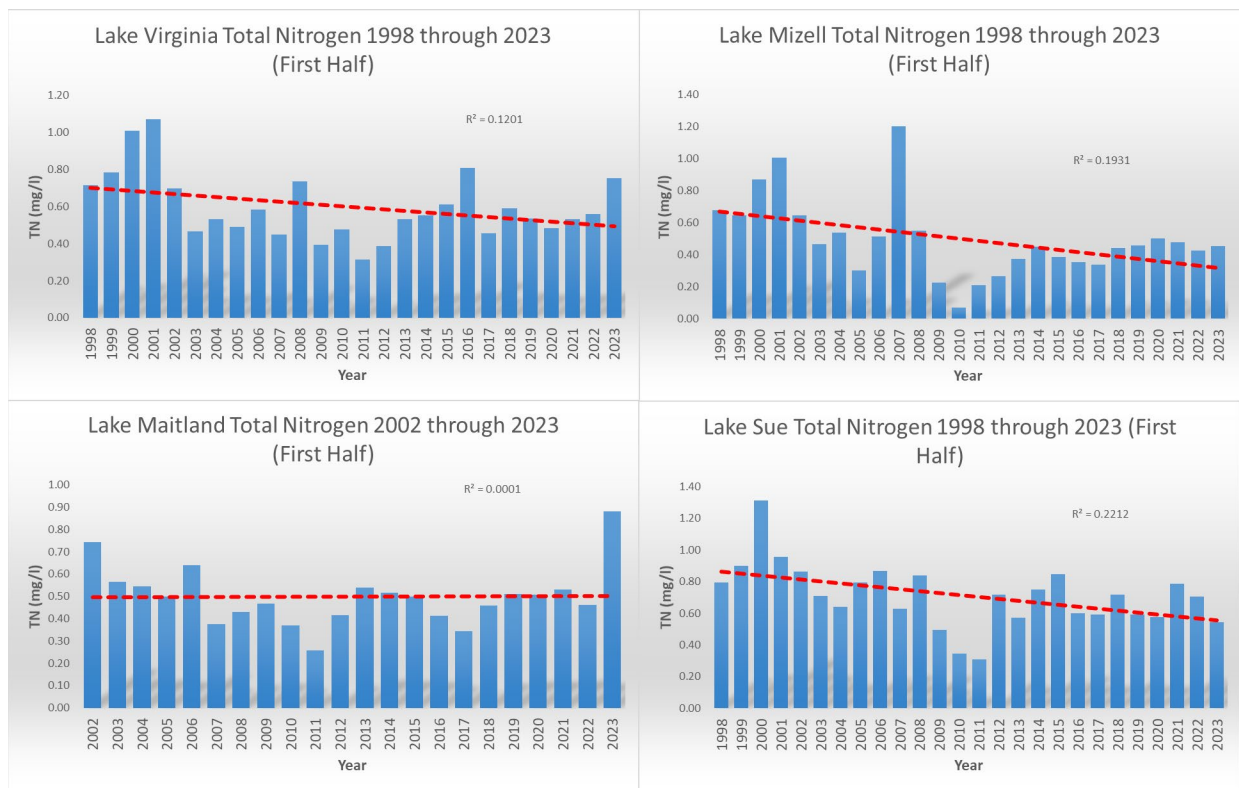
Subject: NPDES Permit 4 Year 7 Monitoring Summary

The City of Winter Park has reviewed the monitoring data (1998-April 2022) for the major lakes within the City limits and analyzed the data for total nitrogen, total phosphorus, chlorophyll a, and secchi depth as approved in the City's SWMP for trends as seen below:

Total Nitrogen:

The annual average for total nitrogen can be seen below:

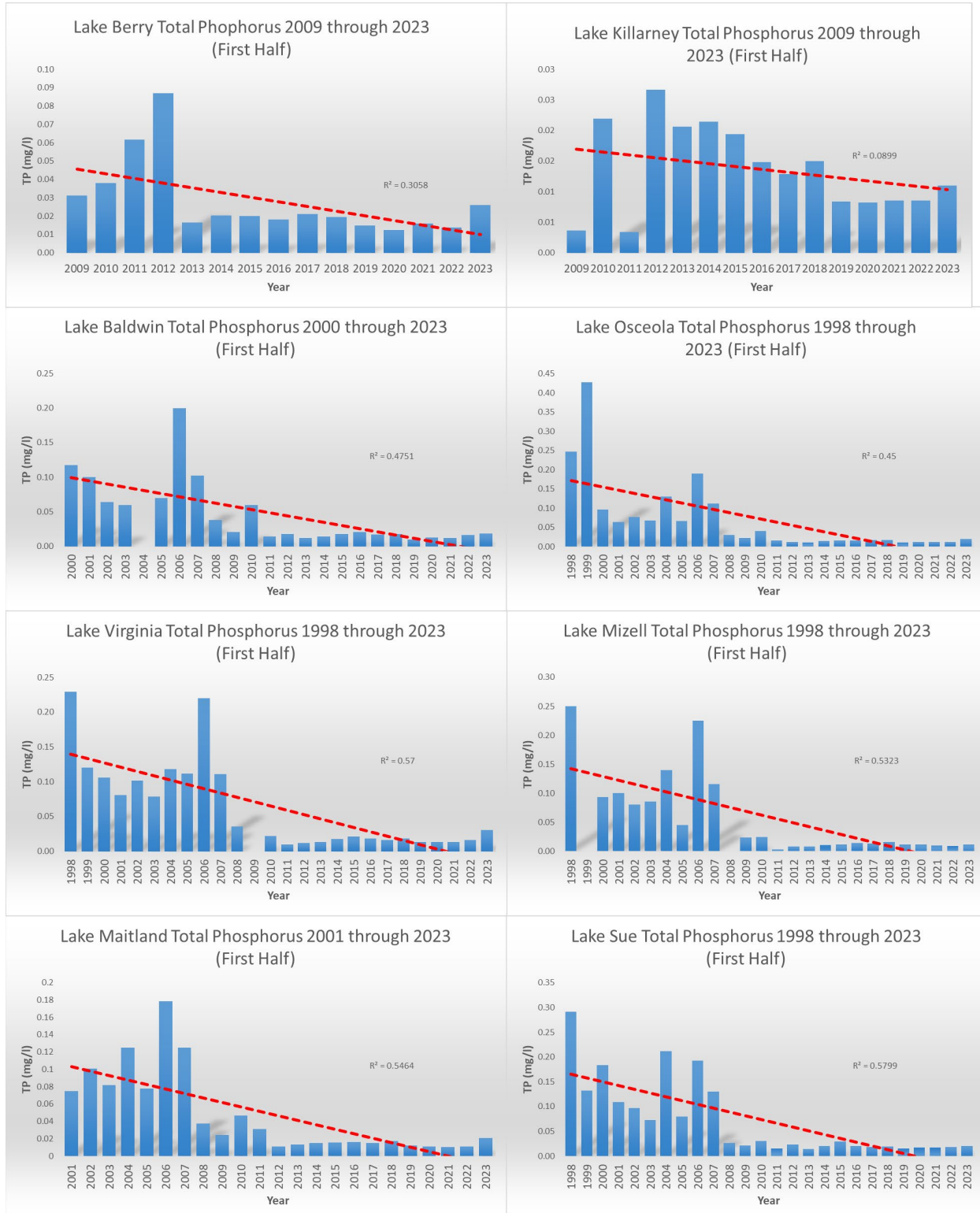




The overall trend in all of the lakes above except Lakes Berry, Baldwin and Maitland is a decline in total nitrogen concentration. The spikes seen in 2023 for Lakes Baldwin, Osceola, Virginia, and Maitland are likely due to an incomplete data set for the year and reduced aquatic vegetation from Hurricanes Ian and Nicole.

Total Phosphorus:

The annual average for total phosphorus can be seen below:



The total phosphorus values in the lakes within the City boundaries experienced a steep decline around 2008 in all of the lakes, due to improvements in stormwater BMPs. After this point the levels of phosphorus in the water have reached a “plateau” and have not demonstrated a significant change in the recent years. The values have fluctuated slightly within acceptable limits. The mild spikes in lakes Berry, Killarney, Virginia and Maitland are likely due to an incomplete data set for the year and reduced aquatic vegetation from Hurricanes Ian and Nicole.

Chlorophyll a:

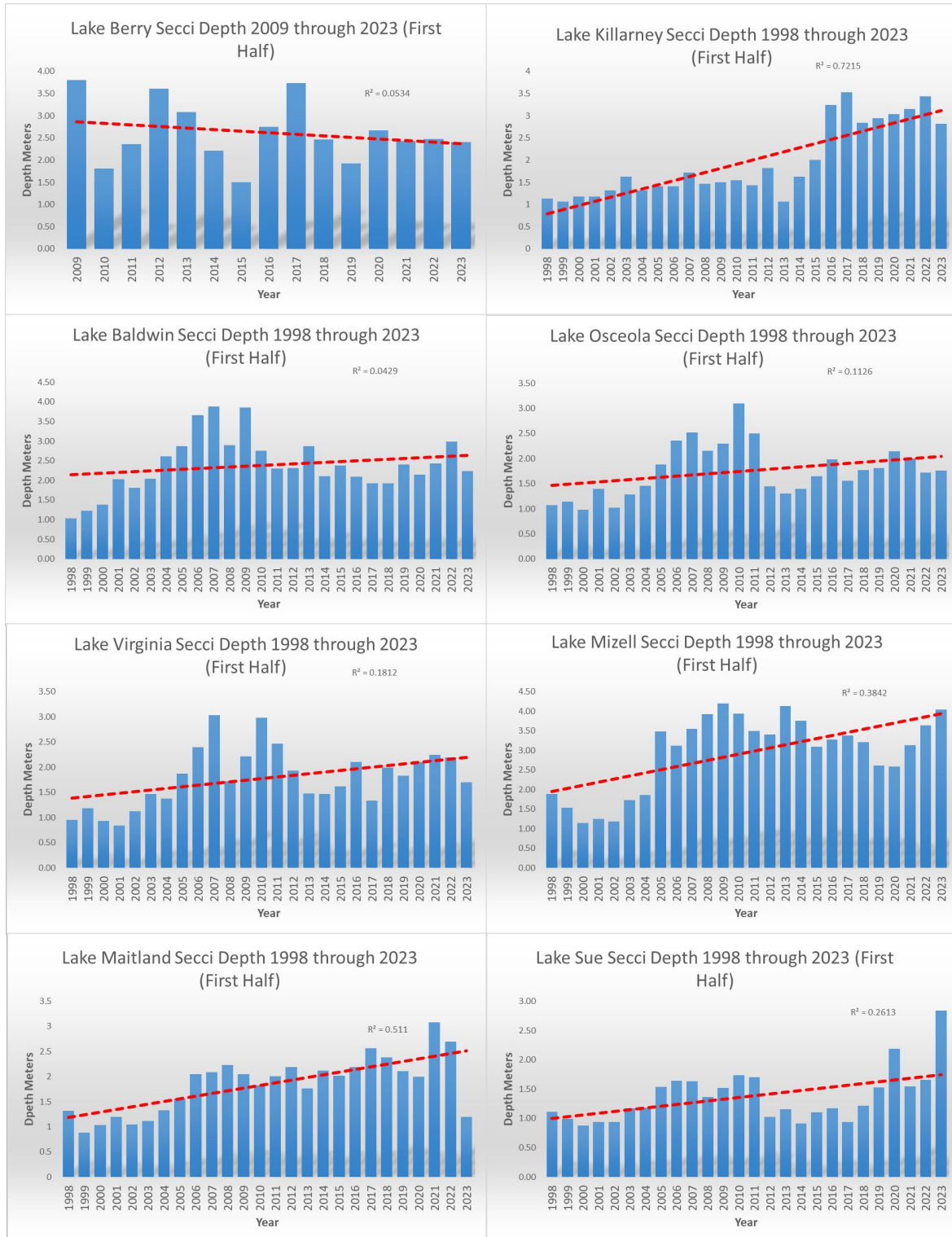
The annual average for chlorophyll a can be seen below:



On average, the chlorophyll a value for most of the lakes have demonstrated a declining trend. However, Lake Baldwin's trend is heavily influenced by a few extreme spikes, including an algal bloom that affected several Winter Park lakes between February and April 2023. This bloom likely contributed to the spikes observed in 2023 for Lakes Baldwin, Virginia and Maitland. A complete data set for the remainder of 2023 may result in a lower average for these lakes, as well as Lake Osceola.

Secchi Depth

The annual average for secchi depth can be seen below:



The secchi depth in most lakes have followed an increasing trend. Lake Berry, which has a decreasing overall trend, has had relatively consistent annual averages throughout recent years. The algal blooms observed in 2023 between February and April likely contributed to the drop in secchi depth for Lakes Baldwin, Virginia and Maitland. As these lakes recover for the remainder of 2023, the average secchi depths will likely increase.

Permit 4, Year 7 Monitoring Summary

Table 1. Average Alkalinity, Color, Secchi Disk, E. Coli, and Fecal Coliform Values for W.P. Lakes

	Virginia	Mizell	Osceola	Maitland	Sue	Berry	Killarney	Baldwin
Alkalinity (mg/L as CaCO ₃)	58.1	38.2	53.8	51.6	57.4	38.5	63.1	60.4
Color (PT-CO)	7.4	8.1	8.2	7.0	8.1	10.2	5.4	13.1
Secchi Disk (m)	2.0	3.8	1.8	2.3	2.0	2.4	3.2	2.8
E. Coli (mpn)*	2.5	31.2	2.1	1.6	3.0	2.8	1.7	1.4
Lake Type**	clear/alk.	clear/alk.	clear/alk.	clear/alk.	clear/alk.	clear/alk.	clear/alk.	clear/alk.

* Bacterial analysis based on E. coli per inter-local agreement with Orange County

** Clear Lakes - color is < 40 PT-CO units Alkaline Lakes - Alkalinity > 20 mg/L

Table 2. Annual Geometric Mean Chlorophyll a Values for Large (>60 acres) Winter Park Lakes (mg/L)

	Virginia	Mizell	Osceola	Maitland	Sue	Berry	Killarney	Baldwin
2020	0.007	0.006	0.009	0.005	0.013	0.006	0.004	0.008
2021	0.006	0.003	0.009	0.004	0.016	0.007	0.003	0.006
2022	0.006	0.003	0.010	0.005	0.012	0.006	0.003	0.005
Meets standard?†	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Table 3. Annual Geometric Mean Total Phosphorus Values for Large (>60 acres) Winter Park Lakes (mg/L)

	Virginia	Mizell	Osceola	Maitland	Sue	Berry	Killarney	Baldwin
2020	0.012	0.011	0.010	0.011	0.017	0.012	0.008	0.011
2021	0.013	0.009	0.011	0.010	0.016	0.014	0.008	0.011
2022	0.014	0.008	0.011	0.010	0.018	0.013	0.008	0.013
Meets standard?†	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Table 4. Annual Geometric Mean Total Nitrogen Values for Large (> 60 acres) Winter Park Lakes (mg/L)

	Virginia	Mizell	Osceola	Maitland	Sue	Berry	Killarney	Baldwin
2020	0.475	0.494	0.516	0.492	0.553	0.463	0.410	0.579
2021	0.523	0.475	0.544	0.528	0.777	0.564	0.528	0.598
2022	0.542	0.404	0.561	0.426	0.678	0.546	0.468	0.553
Meets standard?†	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

†FL Numeric Nutrient Criteria Standards

Clear, Alkaline Lakes

Chl a: 0.020 mg/L

TP: 0.030 mg/L

TN: 1.050 mg/L

Colored Lakes

Chl a: 0.020 mg/L

TP: 0.05 mg/L

TN: 1.27 mg/L

The City of Winter Park chain of lakes is within the acceptable limits for all categories in the nutrient criteria standards. The goal is to reduce all nutrient loads and increase lake health over time with the current permit. Based on the data analyzed in this report, the health of the lakes has either increased or remained at a consistent, acceptable level. The trends in the data suggest the nutrient loadings are decreasing over time and the parameters for lake health are improving concurrently.

Sincerely,

Donald J. Marcotte, P.E.

Donald Marcotte, P.E.
Assistant Director/City Engineer

CC: Shannon Monahan, Engineer I