



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 Palm Beach Gardens		
B.	Permit Name: Palm Beach County MS4		
C.	Permit Number: FLS000018-004 (Cycle 4)		
D.	Annual Report Year: <input type="checkbox"/> Year 1 <input type="checkbox"/> Year 2 <input type="checkbox"/> Year 3 <input checked="" type="checkbox"/> Year 4 <input type="checkbox"/> Year 5 <input type="checkbox"/> Other, specify Year:		
E.	Reporting Time Period (month/year): October / 2019 through September / 2020		
F.	Name of the Responsible Authority: Mr. Todd Engle, P.E.		
	Title: City Engineer		
	Mailing Address: 10500 North Military Trail		
	City: Palm Beach Gardens	Zip Code: 33410	County: Palm Beach
	Telephone Number: 561-804-7012		Fax Number: 561-799-4211
	E-mail Address: tengle@pbgfl.com		
G.	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above):		
	Title:		
	Department:		
	Mailing Address:		
	City:	Zip Code:	County:
	Telephone Number:		Fax Number:
	E-mail Address:		

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? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable)
C.	Is the change in the total number of outfalls due to lands annexed or vacated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable

SECTION III. PART V.B. ASSESSMENT PROGRAM

A.	<p>Provide a brief statement as to the status of water quality monitoring plan implementation. 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></p> <p>Name and date of the approved plan: 5/15/2018 (via email)</p> <p>Current approval of the Group Monitoring Plan is September 8, 2016 (with issuance of the Cycle 4 permit). Individual Assessment Plan was approved on 3/25/19</p> <p>Status:</p> <p>The monitoring program is carried out by PBC permittees. See the PBC Joint Annual Report. The information relevant to the permittee's outfalls is addressed within the Annual Assessment Report documents, provided herewith. Stormwater Management Programs (SWMP) show reductions in pollutant loadings.</p>
B.	<p>Provide a brief discussion of the monitoring and loading results 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></p> <p>See provided Annual Assessment Report and Permittee's Year 4 Pollutant Loading Report updated. Current Annual Joint Report shows significant decreasing trend for monitored pollutants.</p>
C.	<p>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></p> <p>See provided Annual Assessment Report and Permittee's Year 4 Pollutant Loading Report updated. Current Annual Joint Report shows significant decreasing trend for monitored pollutants.</p>

SECTION IV. FISCAL ANALYSIS

A.	Total expenditures for the NPDES stormwater management program for the current reporting year: \$ 3,514,947.00 for 2019/2020 actual budget
B.	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$ 4,103,851.00. for 2020/2021 budget year
C.	<p>Did the current reporting year resources decrease from the previous year? Y <input type="checkbox"/> / N <input checked="" type="checkbox"/></p> <p>If program resources decreased, provide a discussion of the impacts on the implementation of the SWMP.</p>

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
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	An explanation of why the minimum inspection frequency in Table II.A.1.a. was not met, if applicable.	Part II.A.1	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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 V.B.3	See Joint Annual Report and Assessment Report
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 2: A summary review of codes and regulations to reduce the stormwater impact from development.	Part III.A.2	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 3: Summary of TMDL Monitoring Results (if applicable).	Part VIII.B.2	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 3: Bacteria Pollution Control Plan (if applicable).	Part VIII.B.3	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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	See Land Development Regulations (LDRs) Report
<input checked="" type="checkbox"/>	<input type="checkbox"/>	YEAR 4: A report on any amendments to the applicable legal authority (if applicable).	Part III.A.7.a	Modify Legal Authority by next reporting cycle
<input checked="" type="checkbox"/>	<input type="checkbox"/>	YEAR 4: Permit re-application information in accordance with Rule 62-624.420(2), F.A.C. <ul style="list-style-type: none">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	See Joint Annual Report and Assessment Report
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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): Todd Engle, P.E.

Title: City Engineer

Signature: 

Date: 2 / 10 / 2021

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 Performing the Activity	Comments				
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.								
	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.								
	Type of Structure	Number of Structures	Number of Inspections	Percent Inspected	Number of Maintenance Activities	Percent Maintained	Document/ Record	Entity Performing the Activity	Comments
	Dry retention systems	10	10	100	41	100	Public Service Logs	Public Services	Mowed a min of twice a month
	Underdrain filter systems	0	0	0	0	0	Public Service Logs	Public Services	
	Exfiltration trench / French drains (lf)	0	0	0	0	0	Public Service Logs	Public Services	None
	Grass treatment swales (miles)	50	50	100	20	40	Public Service Logs	Public Services	Inspected once per year per mile
	Dry detention systems	11	11	100	41	100	Public Service Logs	Public Services	Mowed a min of twice a month
	Wet detention systems	10	7	70	41	100	Public Service Logs	Public Services	Inspected once per year
	Detention with filtration systems	0	0	0	0	0	Public Service Logs	Public Services	
	Alum Injection systems	0	0	0	0	0	Public Service Logs	Public Services	
	Pollution control boxes	4	12	100	2	100	Public Service Logs	Public Services	Inspected once per month
pump stations	0	0	0	0	0	Public Service Logs	Public Services	None owned	
Major outfalls	29	29	100	29	100	Public Service Logs	Public Services	Inspected once per year, removed	

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity					Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Weirs or other control structures pipes / culverts (miles)								culverts from count.
		14	14	100	14	100	Public Service Logs	Public Services	Inspected once per year
		12	12	100	12	100	Public Service Logs	Public Services	Inspected as needed and during inventory process
		7	7	100	7	100	Public Service Logs	Public Services	Inspected annually
	Inlets / catch basins / grates	1400	500	35	500	35	Public Service Logs	Public Services	
		1	1	100	1	100	Public Service Logs	Public Services	Inspected annually
	Ditches / conveyance swales (miles)								
	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.		<input type="checkbox"/>						All requirements met

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.1 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit. Strengths: The Streets/Stormwater Division has incorporated cleaning and video detection as part of the City's maintenance of stormwater infrastructure. The City cleaned and televised 8878 feet of the stormwater system, repaired 0 non-major outfalls, and removed 230.2 CY of sediment from the system. The Streets/Stormwater Division is very proactive and conducts monthly, quarterly, and annual inspections and maintenance of the City's MS4 system. Limitations: None.				
Part III.A.2	SWMP revisions implemented to address limitations: None. Areas of New Development and Significant Redevelopment Report the number of significant development projects, including new and redevelopment, reviewed and approved by the permittee for post-development stormwater considerations.				
	Number of significant development projects reviewed	17	Plans/ Reports	Engineering	
	Number of significant development projects approved	11	Plans/Reports	Engineering	
	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				
	Year 4 ONLY: Attach the follow-up report on plan implementation	<input checked="" type="checkbox"/>	LDRs Report	Planning	
	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
Part III.A.2 Summary	Strengths: Our City Program allows for significant review during the site plan approval and design process to enhance the storm water treatment for redevelopment within the City. Limitations: None.				
Part III.A.3	SWMP revisions implemented to address limitations: None.				
	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. Note: If the permittee does not contract activities, delete CONTRACTOR activities.				
	PERMITTEE Litter Control: Frequency of litter collection	2x monthly	Roadway Trash Collection Reports	Public Services	Litter is collected on an as needed basis/min of twice per month
	PERMITTEE Litter Control: Estimated amount of area maintained (lf)	50 miles	Roadway Trash Collection Reports	Public Services	50 miles
	PERMITTEE Litter Control: Estimated amount of litter collected (gal)	2,700 gallons	Roadway Trash Collection Reports	Public Services	City Files

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	CONTRACTOR Litter Control: Frequency of litter collection				
	CONTRACTOR Litter Control: Estimated amount of area maintained (lf)	2x daily	Per Citywide Contract	Public Services	
	CONTRACTOR Litter Control: Estimated amount of litter collected (gal)	25 miles	Per Citywide Contract	Public Services	25 miles
		6,600 gallons	Per Citywide Contract	Public Services	Estimate 2.0 CY per mile
	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".				
	Keep PBC Beautiful Trash Pick-up events: Total miles cleaned	See County Joint Annual Report	See County Joint Annual Report	See County Joint Annual Report	See County Joint Annual Report
	Keep PBC Beautiful Trash Pick-up Events: Estimated amount of litter collected (cy)	See County Joint Annual Report	See County Joint Annual Report	See County Joint Annual Report	See County Joint Annual Report
	Adopt-A-Road: Total miles cleaned	0	City's Adopt A Street Program	Public Services	Currently no participants
	Adopt-A-Road: Estimated amount of litter collected (cy)	0	City's Adopt A Street Program	Public Services	Currently no participants
	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	Street Sweeping Log	Public Services	
	Total miles swept	2169.12	Street Sweeping Log	Public Services	360 non- curbed miles/ 2169 curbed miles swept
	Estimated quantity of sweeping material collected (cy / tons)	32.33 CY	Street Sweeping Log	Public Services	
	Total phosphorous loadings removed (pounds)	25	Quantifying Nutrient Loads	Public Services	FSA Calculator
	Total nitrogen loadings removed (pounds)	45	Quantifying Nutrient Loads	Public Services	FSA Calculator
	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			
	Public Works Facility	12	Municipal maintenance	Public Works	Monthly inspections

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
			yard inspection checklist		
Part III.A.3 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit. Strengths: Street Sweeping, inspections, pipe cleaning, canal and lake maintenance, and pipe repair program are very effective and measurable activities within the Program. Limitations: None. SWMP revisions implemented to address limitations: None.				
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 Flood control projects completed that did <u>not</u> include stormwater treatment Stormwater retrofit projects planned/under construction Stormwater retrofit projects completed	1 - ongoing	Public Services CIP	Public Services	Stormwater Infrastructure improvement program
		0	Public Services CIP	Public Services	Stormwater Infrastructure improvement program
		1	Public Services	Public Services	Dredge & canal bank stabilization & installation of stormwater infrastructure
		2	Engineering	Engineering	
		<input type="checkbox"/>			
Part III.A.4 Summary	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.				
	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Allows the City to increase storm water quality for known problem areas.				
	Limitations: Some areas within the City have standing water in the roadways after heavy rain events; however, standing water will dissipate within 2-48 hours depending on rainfall amounts, as the MS4 is designed to do. SWMP revisions implemented to address limitations: None.				

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Part III.A.5	Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an NPDES Stormwater Permit				
	Report the applicable facilities and the number of the inspections conducted for each facility.				
	Name of Facility	Number of Inspections			
	Public Works Fleet Facility	12	Municipal maintenance yard inspection checklist	Public Works	Oil & water separator and sediment chamber Cleaned 2020
Part III.A.5 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit. Strengths: City of Palm Beach Gardens has none. Limitations: None. SWMP revisions implemented to address limitations: None.				
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	4	HR Personnel Files	Public Services	Licenses on file
	CONTRACTORS: FDACS commercial applicators of pesticides/ herbicides	3	Contractor Files	Public Services	Licenses on file
	PERSONNEL: Green Industry BMP Program training completed	0	HR Personnel Files	Public Services	
	CONTRACTORS: FDACS certified / licensed applicators of fertilizer	3	Contractor Files	Public Services	Licenses on file
	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	<input type="checkbox"/>			
	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).				
	Public Education and Outreach Program				The public outreach and education plan is carried out as a joint effort by the Palm Beach County Co-permittees. Please see the Palm Beach County Joint Annual Report for the public education and outreach information.
	Brochures/Flyers/Fact sheets distributed				
	Neighborhood presentations: Number conducted				
	Neighborhood presentations: Number of participants				

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	<p>Newspapers & newsletters: Number of articles/notices published</p> <p>Newsletters: Number of newsletters distributed</p> <p>Public displays (e.g., kiosks, storyboards, posters, etc.)</p> <p>Radio or television Public Service Announcements (PSAs)</p> <p>School presentations: Number conducted</p> <p>School presentations: Number of participants</p> <p>Seminars/Workshops: Number conducted</p> <p>Seminars/Workshops: Number of participants</p> <p>Special events: Number conducted</p> <p>Special events: Number of participants</p> <p>Number of visitors to stormwater-related pages</p>				
Part III.A.6 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Adopted Florida Friendly Ordinance 20, 2011.				
	Limitations: Enforcement during actual application of pesticide, herbicide, and fertilizer by residents.				
	SWMP revisions implemented to address limitations: Continuing Public Education and Outreach Program.				
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	<input checked="" type="checkbox"/>			Modify Legal Authority by next reporting cycle
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	17	Proactive Inspection Program Illicit Discharge Form	Engineering Department	See Attachment 1 Suspected Illicit Discharge Sites
	Illicit discharges found during a proactive inspection	0	Proactive Inspection Program Illicit Discharge Form	Engineering Department	
	NOV/WL/citation/fines issued for illicit discharges found during proactive inspection	0	Code Enforcement Process	Code Enforcement	
	Report on the reactive investigation program as it relates to responding to reports of suspected illicit discharges, including the number of reports received, the				

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	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	2	Code Enforcement Process	Code Enforcement	2 residential homes
	Reactive investigations of reports of suspected illicit discharges etc.	2	Code Enforcement Process	Code Enforcement	2 residential homes
	Illicit discharges etc. found during reactive investigation	0	Code Enforcement Process	Code Enforcement	None found after investigation
	NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation	0	Code Enforcement Process	Code Enforcement	Educated residents
	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	14	Sign In sheet	PBC NPDES	See agenda 3/11/2020
	Contractors trained	0	Sign In sheet	PBC NPDES	
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	68	Fire Rescue	Fire Rescue	64 Hazardous
	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	14	Sign in Sheet	PBC NPDES	
	Contractors trained	0	Sign in Sheet	PBC NPDES	
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).				
	Public Education and Outreach Program				The public outreach and education plan is carried out as a joint effort by the Palm Beach County Co-permittees. Please see the Palm Beach County Joint Annual Report for the public education and outreach information.
	Brochures/Flyers/Fact sheets distributed				
	Neighborhood presentations: Number conducted				
	Neighborhood presentations: Number of participants				
	Newspapers & newsletters: Number of articles/notices published				
	Newsletters: Number of newsletters distributed				
	Public displays (e.g., kiosks, storyboards, posters, etc.)				

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	Radio or television Public Service Announcements (PSAs) School presentations: Number conducted School presentations: Number of participants Seminars/Workshops: Number conducted Seminars/Workshops: Number of participants Special events: Number conducted Special events: Number of participants Number of visitors to stormwater-related pages				
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 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).				
	Public Education and Outreach Program				
	Brochures/Flyers/Fact sheets distributed				
	Neighborhood presentations: Number conducted				
	Neighborhood presentations: Number of participants				
	Newspapers & newsletters: Number of articles/notices published				
	Newsletters: Number of newsletters distributed				
	Public displays (e.g., kiosks, storyboards, posters, etc.)				
	Radio or television Public Service Announcements (PSAs)				
	School presentations: Number conducted				
	School presentations: Number of participants				
	Seminars/Workshops: Number conducted				
	Seminars/Workshops: Number of participants				
	Special events: Number conducted				
	Special events: Number of participants				
	Storm sewer inlets newly marked/replaced				
	Number of visitors to stormwater-related pages				
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.				
	Activity to reduce/eliminate SSOs and I&I: Repair/lining of sanitary sewer system				
	Owner of the sanitary sewer system	7821 LF lined	Seacoast Utility Authority	Seacoast Utility Authority	Liner installed

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	Activity to reduce/eliminate SSOs and I&I: Emergency Generator added	Added 0 new generators	Seacoast Utility Authority	Seacoast Utility Authority	Seacoast has 35 generators to use if there is a power loss
	SSO incidents discovered	0	Seacoast Utility Authority	Seacoast Utility Authority	
	SSO incidents resolved	0	Seacoast Utility Authority	Seacoast Utility Authority	
	Inflow / infiltration incidents discovered	0	Seacoast Utility Authority	Seacoast Utility Authority	
	Inflow / infiltration incidents resolved	0	Seacoast Utility Authority	Seacoast Utility Authority	
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.2 of the permit.				
	Strengths: Allows staff to evaluate if there is evidence of illicit discharge for high risk facilities.				
	Limitations: City can only check for illicit discharges at the time of inspection.				
	SWMP Revisions implemented to address limitations: Varying time of inspections.				
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.				
	Type of Facility	Number of Facilities	Number of Inspections	Enforcement Actions	
	Operating municipal landfills	0	0	0	Public Works
				https://florida dep.gov/waste /permitting- compliance/con sent/solid- waste-section	

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 Performing the Activity	Comments
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	0	0	0	Public Works
	EPCRA Title III, Section 313 facilities (TRI)	0	0	0	Public Works
	Facilities determined as high risk by the permittee	0	0	0	Public Works
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			Public Works
Part III.A.8 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: No high-risk runoff areas in PBG.				
	Limitations: N/A				
	SWMP revisions implemented to address limitations: N/A				
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	0	Plans/Notes	Engineering Dept.	
	PERMITTEE SITES: Construction site plans approved	0	Plans/Notes	Engineering Dept.	
	PRIVATE SITES: Construction site plans reviewed	11	Plans/Notes	Engineering Dept.	Infrastructure
	PRIVATE SITES: Construction site plans approved	11	Plans/Notes	Engineering Dept.	Infrastructure
	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	11	Plans/Notes	Engineering Dept.	
	Confirmed ERP coverage	11	Plans/Notes	Engineering Dept.	
	Notified of CGP stormwater permit requirements	11	Plans/Notes	Engineering Dept.	
	Confirmed CGP coverage	11	Plans/Notes	Engineering Dept.	
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				

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 Performing the Activity	Comments
	enforcement actions / referrals taken.				
	<p>PERMITTEE SITES: Active construction sites</p> <p>PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs</p> <p>PERMITTEE SITES: Percentage of active construction sites inspected</p> <p>PRIVATE SITES: Active construction sites</p> <p>PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs</p> <p>PRIVATE SITES: Percentage of active construction sites inspected</p> <p>Enforcement Action</p>	<p>0</p> <p>100</p> <p>100%</p> <p>11</p> <p>165</p> <p>100%</p> <p>0</p>	<p>Engineering Records</p> <p>Engineering Records</p> <p>Engineering Records</p> <p>Engineering Records</p> <p>Engineering Records</p> <p>Engineering Records</p> <p>Engineering Records</p>	<p>Engineering Dept.</p> <p>Engineering Dept.</p> <p>Engineering Dept.</p> <p>Engineering Dept.</p> <p>Engineering Dept.</p> <p>Engineering Dept.</p> <p>Engineering Dept.</p>	<p></p> <p></p> <p></p> <p></p> <p>Site inspections</p> <p></p> <p></p>
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	3	1	Engineering Public Works Building	
	Permittee construction site plan reviewers		1	Engineering Public Works Building	
	Permittee construction site operators		11	Engineering Public Works Building	Eng. Pre-Con onsite meetings
	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
Part III.A.9 Summary	<p>Strengths: City inspects construction runoff on every routine inspection of each individual construction site to ensure SWPPP and BMP's are followed.</p> <p>Limitations: Cannot be at every site every time it rains.</p> <p>SWMP revisions implemented to address limitations: Require contractors to conduct their own inspections after each rainfall event.</p>				

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.
	N/A	No change
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)
		<i>The City regularly updates a full base map to allow for the most accurate and complete inventory for the inspection, maintenance, and record-keeping process, the City owned MS4. Additionally, the City cleaned 6946 LF with 6215.43CF of sediments removed.</i>

SECTION IX. TMDL Status Report

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
No TMDL'S			<input type="checkbox"/> / <input type="checkbox"/>		1			
			<input type="checkbox"/> / <input type="checkbox"/>					
			<input type="checkbox"/> / <input type="checkbox"/>					

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
NO TMDL'S				

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):

No discharge to a TMDL WBID at the time of permit issuance.

City of Palm Beach Gardens MS4 SWMP CYCLE 4 – YEAR 4 update Water Quality Monitoring Assessment Report

Purpose

The purpose of this Water Quality Monitoring Assessment Report is to provide information for the City of Palm Beach Gardens to determine the overall effectiveness of its stormwater management program in reducing stormwater nutrient pollutant loadings from its Municipal Separate Sewer System (MS4) to receiving water bodies.

The following items and concerns are examined as part of this water quality monitoring report:

- A. **Impaired Water Bodies** – The Florida Department of Environmental Protection (FDEP) assessment program for water body impairments will be reviewed for Palm Beach Gardens, if any are found, those impairments will be evaluated.
- B. **Water Quality Monitoring Program** – The water quality monitoring program is intended to identify local sources where urban stormwater is affecting surface water resources.
- C. **Pollutant Loading Estimates/Results** – Pollutant loadings and results are reported.
- D. **Conclusions** – Final conclusions are determined concerning water quality and nutrient loading impacts.

Impaired Water Bodies

The Florida Department of Environmental Protection (FDEP) has an ambient water quality and assessment program for water body impairments. The State is divided into five (5) working groups, with each group cycling through a 5-year assessment cycle. The 5-year cycle includes planning, water quality, monitoring, preliminary evaluation, public meetings, final evaluation, and Secretarial (State) adoption of the verified lists. Impairments for C-17 WBID 3242A include TN nutrients (Cycle 1) and Dissolved oxygen (Cycle 2). Currently, there are no TMDLs for water bodies in Palm Beach Gardens.

Water Quality Monitoring Program

As a co-permittee, the City of Palm Beach Gardens uses the ambient water quality data provided by Palm Beach County MS4 Group.

Based on the location of the outfalls of our MS4, 1 monitoring station has been established. Station C17S44 is a South Florida Water Management District Monitoring site station adjacent to the S44 water control structure located in Palm Beach Gardens, Florida. The S44 water control structure is approximately a mile north of the intersection of Northlake Boulevard and Alternate A1A. The following table identifies the monitoring station, along with relevant information about each location.

MS4 Monitoring Station Table

Monitoring Station Number	Location Description	Latitude/ Longitude	Receiving Water Body	Verified Impaired?	Adopted TMDL?
C17S44	Palm Beach Gardens	903830.19/ 955552.70	C17	Yes (Dissolved Oxygen and Nutrients (Chlorophyll-a))	No

The primary interest that FDEP has regarding the stormwater permitting program is related to nutrients and what impacts these loads create by the introduction of nutrients into the stormwater system. The City of Palm Beach Gardens has reviewed nutrient monitoring data results at the above location. C-17 Nutrient Trend graphs (C17S44 1990-2017) is provided on the Palm Beach county MS4 website (www.pbco-npdes.org) under Group/Joint Activities, WQ Monitoring. Nutrient trend graphics (refer to attached Figures 2, 3, and 4) for TN, TP and Chlorophyll show a decreasing trend.

Pollutant Loading Estimates/Results

The municipal separate storm sewer system (MS4) National Pollutant Discharge Elimination System (NPDES) Cycle 4 permit, issued September 8, 2016, requires in PART V. - Monitoring Requirements that average annual pollutant loading, and event mean concentration (EMC) estimates be provided for six (6) parameters. The six (6) parameters identified are: 1) five-day biochemical oxygen demand (BODs); 2) total copper (Cu); 3) Total nitrogen (TN); 4) total phosphorus (TP); 5) total suspended solids (TSS); and, 6) total zinc (Zn), all in the unit of mg/l . It is assumed by the FDEP that pollutant loading generated within a watershed flows through MS4 outfalls and directly affects the receiving bodies. An option is provided in the permit to provide the average annual pollutant loading estimates based on major outfalls watersheds. Since the pollutant loading estimates for permit Cycles 1 through 3 were provided on a watershed basis, it was agreed with the FDEP that the Cycle 4 loading estimates would also be provided on a watershed basis. In addition to meeting the requirements of the permit, modeling the average annual pollutant loading generated by a watershed or a MS4's watershed can assist in planning for future improvements in stormwater quality treatment, regulations or stormwater management.

The City of Palm Beach Gardens is contiguous to the following watersheds: *C-17, C-18, ICCWN, and the Lake Worth Lagoon*. All stormwater runoff from the Palm Beach Gardens MS4 system discharges into the combined watershed system. All six (6) parameters are analyzed in the Cycle 4, Year 3 'Summary of Average Annual Pollutant Loading Model Activities' report (2019) as prepared by Mock-Roos for the co-permittees reference for the contiguous watersheds to Palm Beach Gardens. All parameters indicate decreases between the Cycle 3, Year 3 and Cycle 4, Year 3 reporting period within all four (4) watersheds.

**Pollutant Loadings (lbs/year) –
City of Palm Beach Gardens**

Parameter	BODs	TSS	TP	CU	ZN	TN
2013 Loads to C-17	32,623	144,133	1,452	87	378	13,512
2013 Loads to C-18	2,339	8,114	124	6	21	969
2013 Loads to ICCWN	1,832	4,070	95	5	17	871
2013 Loads to LW Lagoon	3,807	9,410	164	11	36	1,505
2013 Total Loading	40,601	165,727	1,835	109	452	16,857
2018 Loads to C-17	29,683	121,974	1,349	58	268	12,685
2018 Loads to C-18	2,340	8,115	124	6	21	969
2018 Loads to ICCWN	1,778	4,061	94	5	17	860
2018 Loads to LW Lagoon	3,696	7,595	160	8	27	1,504
2018 Total Loading	37,497	141,745	1,727	77	333	16,198
Public Education Reduction	2,250	8,505	108	5	20	972
<u>FY19-20</u>						
Street Sweeping Reduction	0	0	25	0	0	32
Total Amount	35247	133,240	1,594	72	313	15,194
Percent Reduction	13%	20%	13%	34%	31%	9.9%

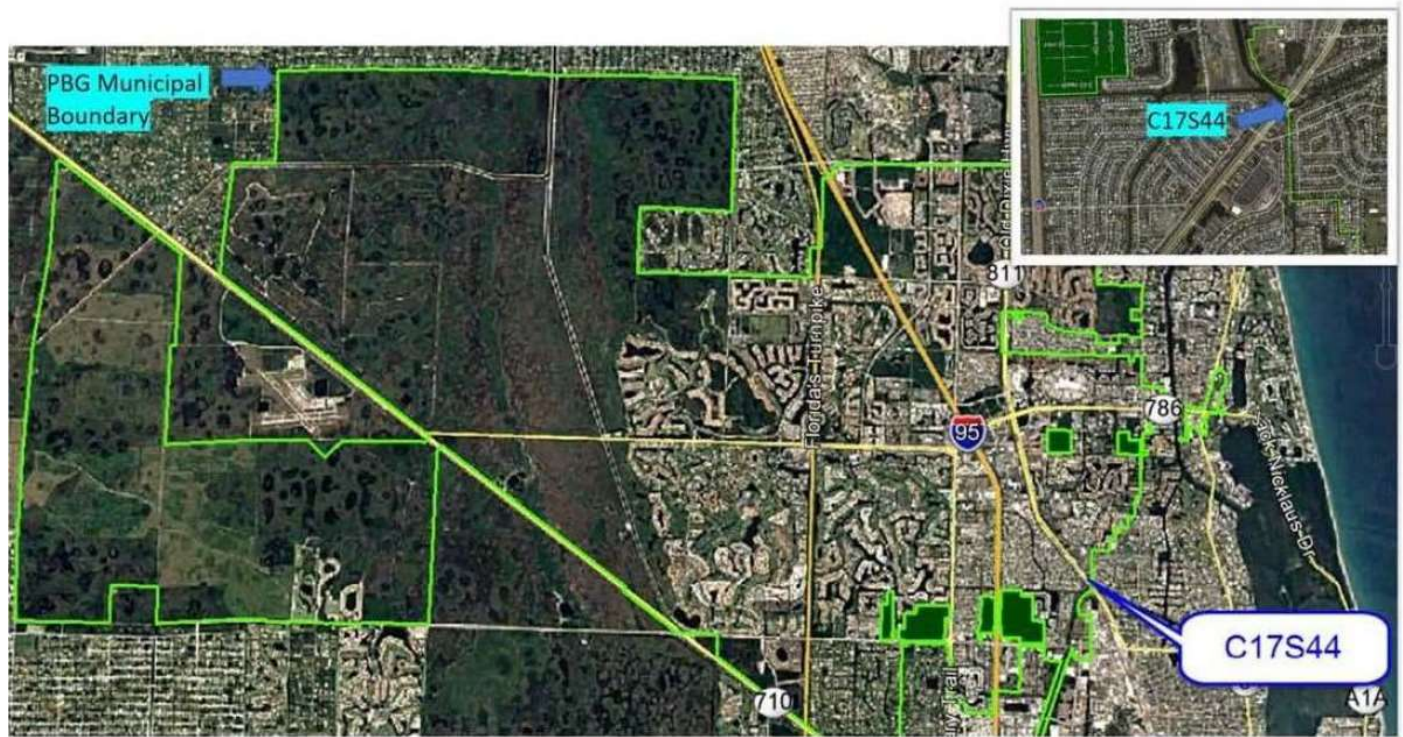
Sources: Table 16 (p. 29) of the 'Summary of Average Annual Pollutant Loading Model Activities' report (2019) prepared by Mock-Roos.

Reductions in pollutant loadings for the six (6) parameters in the Palm Beach Gardens MS4 indicate reductions between 2013 and 2018 for all four (4) contiguous watersheds within Palm Beach Gardens.

Conclusions

The City of Palm Beach Gardens stormwater management programs are effective in reducing nutrient loadings. This is supported by the water quality monitoring program (both FDEP and the MS4 group information) and pollutant loading information. Currently there is no need to develop further stormwater management programs.

Figure 1



LOCATION MAP OF C17S44 MONITORING LOCATION

Figure 2

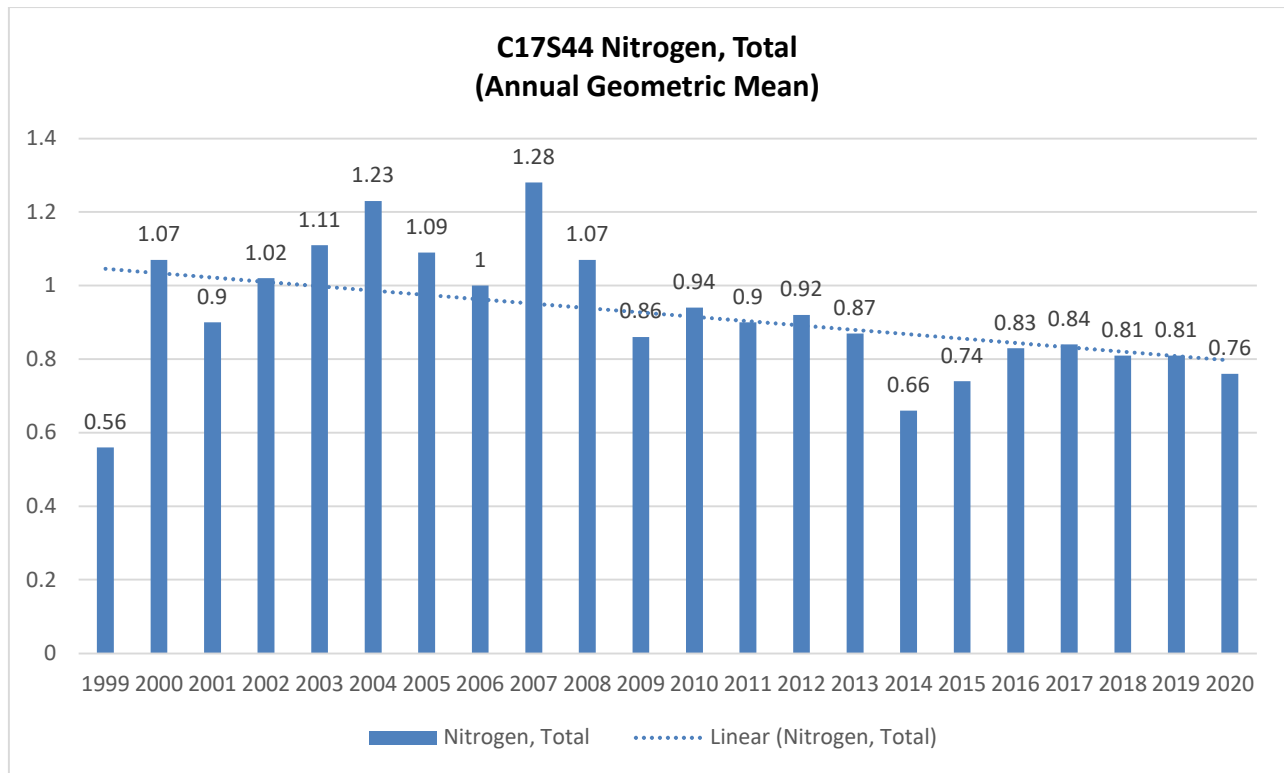


Figure 3

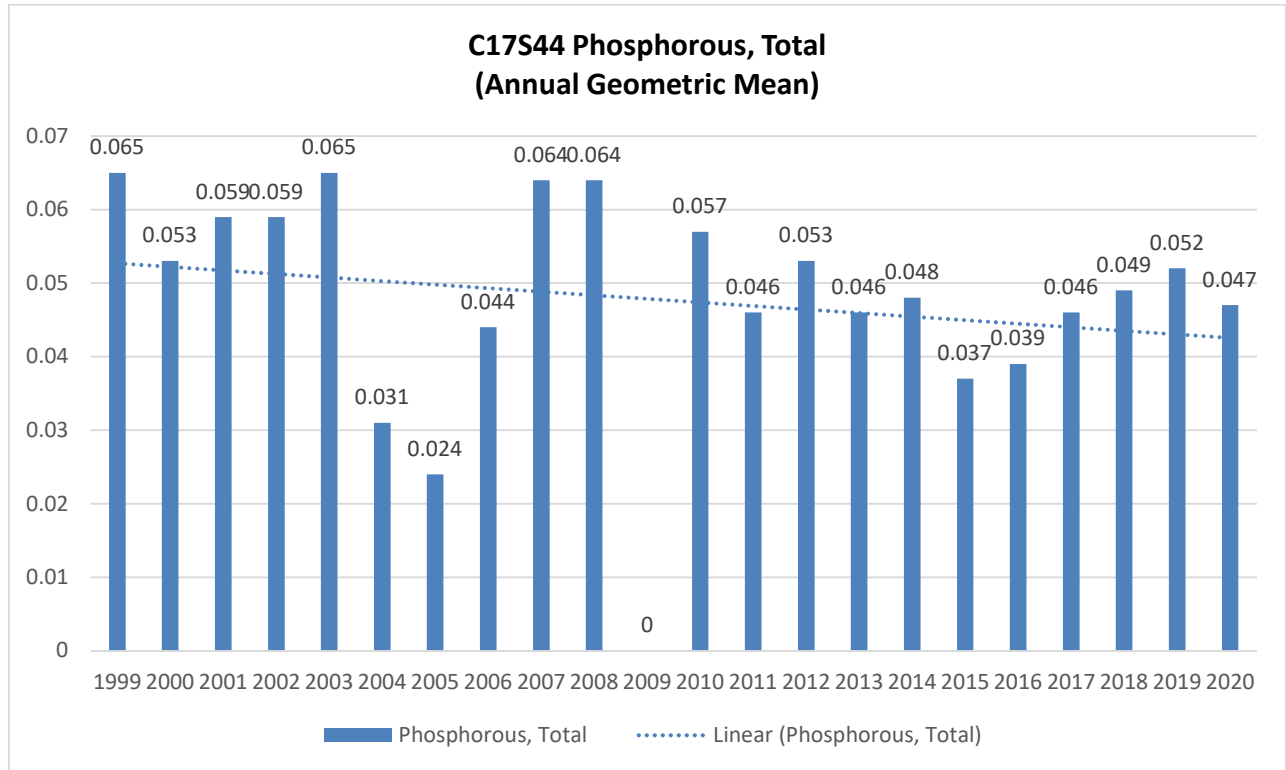
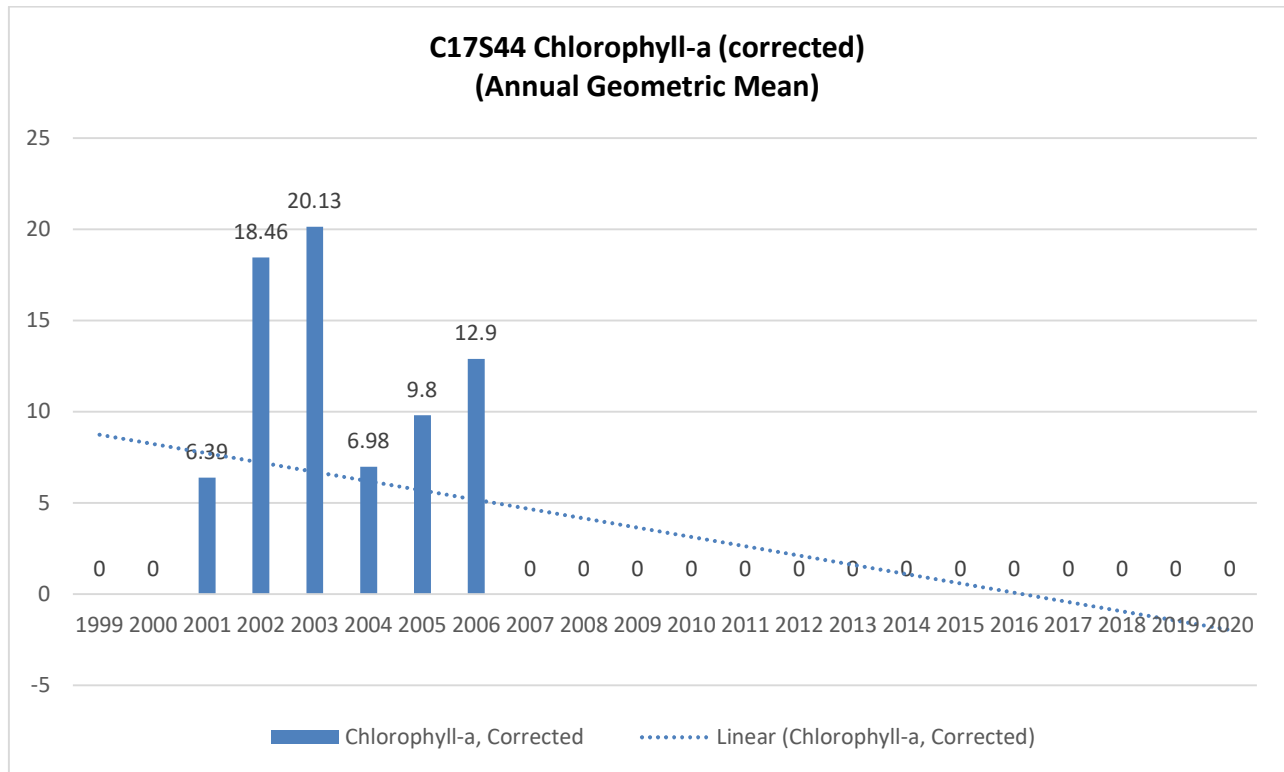


Figure 4



REVIEW OF LOCAL CODES
CITY OF PALM BEACH GARDENS

<u>Code Section</u>	<u>Title</u>	<u>Description</u>	<u>Reviewed 2020</u>	<u>Recommended Improvements</u>
34-35	Pollution Control: Legislative findings	Florida friendly best management practices for protection of water resources by green industries	<u>X</u>	No revisions to code at this time.
34-36	Legislative findings	Regulate the proper use of fertilizers by any applicator; requires proper training of commercial and institutional fertilizer applicators; establishes training and licensing requirements; establishes a prohibited application period;	<u>X</u>	No revisions to code at this time.
34-39	Fertilizer-free zones	Fertilizer applications defined by FDEP Chapter 62-340, FAC	<u>X</u>	No revisions to code at this time.
34-42	Management of grass clippings and vegetative matter	Regulate grass and vegetative clippings in accordance with best management practices	<u>X</u>	No revisions to code at this time.
34-44	Training	All fertilizer applicators shall complete the six-hour training program in the "Florida-Friendly Best Management Practices for Protection of Water Resources by the Green Industries" program or an approved equivalent program.	<u>X</u>	No revisions to code at this time.
54-3	Solid Waste: Burial of garbage	No person shall deposit on or bury in or cause to be deposited on or buried in any land, public square, street, alley, vacant or unoccupied lot, or any lake, canal, creek, or watercourse	<u>X</u>	No revisions to code at this time.
62-7	Streets, Sidewalk. and certain other public places: Right-of-way blockage prohibited	The blocking, filling, altering, or obstructing of any swale, drainage course, stream, canal, canal maintenance platform, retention or detention areas, or any type of storm water management area	<u>X</u>	No revisions to code at this time.

62-9	Boating and bathing	Operation of motorized watercraft is prohibited in any city-owned canal or lake	<u>X</u>	No revisions to code at this time.
74-37	Applicability	To enhance the city's water resources and provide a permanent water conservation measure	<u>X</u>	No revisions to code at this time.
74-38	Purpose	To establish a water and landscape irrigation conservation will be consistent throughout the city.	<u>X</u>	No revisions to code at this time.
74-39	Hours restricted	Irrigation of any residential, commercial, institutional, governmental or industrial landscape areas shall be restricted to the hours of 5:00 p.m. to 9:00 a.m.	<u>X</u>	No revisions to code at this time.
74-40	Waste prohibited	Unlawful to operate or cause the operation of any irrigation system or device in a manner causing water to be wasted.	<u>X</u>	No revisions to code at this time.
74-41	Water sensing devices	New installations of automatic irrigation systems providing coverage of greater than one acre of irrigated area shall be equipped with a water sensing devices	<u>X</u>	No revisions to code at this time.
74-42	Exemptions	Certain items such as hand watering, wastewater effluent watering, and maintenance and repair of irrigation systems are exempt.	<u>X</u>	No revisions to code at this time.
74-63	Inspections and monitoring	Whenever necessary to make an inspection exists any condition constituting a violation of any discharge	<u>X</u>	No revisions to code at this time.
74-64	Industrial activity	Any discharge into the stormwater system in violation of any federal, state, county, municipal or other law, rule, regulation or permit is prohibited.	<u>X</u>	No revisions to code at this time.

74-65	Illicit discharges	In accordance with a valid NPDES permit, any discharge to the stormwater system that is not composed entirely of stormwater is prohibited.	<u>X</u>	No revisions to code at this time.
74-66	Spills and dumping	Any discharge to the stormwater system that is not composed entirely of stormwater is prohibited.	<u>X</u>	No revisions to code at this time.
74-71	Intent and purpose	Protect the water resources of the City of Palm Beach Gardens from the harmful effects of over utilization during periods of water shortage.	<u>X</u>	No revisions to code at this time.
74-75	Declaration of water shortage	All water use restrictions or other measures adopted by SFWMD for the City of Palm Beach Gardens, shall be subject to enforcement action pursuant to this article.	<u>X</u>	No revisions to code at this time.
78-75	Adopted levels of service	Designed to ensure that the adopted levels of service for specific public facilities will be maintained upon issuance by the city of any development order.	<u>X</u>	No revisions to code at this time.
78-120	Purpose and intent	To protect the health, safety, and welfare providing criteria for regulating and prohibiting the use, handling, production, and storage of certain hazardous substances which may impair present and future public potable water supply wells and wellfields.	<u>X</u>	No revisions to code at this time.
78-248	Review procedures for proposed land alterations	Outline of requirements for environmental issues in City and other agencies that review environmental or wetland areas.	<u>X</u>	No revisions to code at this time.

78-249	Approval criteria for proposed land alteration	Approval of land alteration requests. The growth management department may approve requests for land alteration consistent with the approved development order.	<u>X</u>	No revisions to code at this time.
78-250	Preserve area requirements	Preserve area requirements for environmentally significant lands in the City.	<u>X</u>	No revisions to code at this time.
78-251	Management plan	Management plan for the preserve area or any other conservation areas within the city shall be prepared by the property owner or entity responsible for management of the area.	<u>X</u>	No revisions to code at this time.
78-252	Forms of mitigation	Allowing mitigation in lieu of on-site preservation is to provide a public benefit to the city that equals or exceeds the expected benefit that would have been derived from on-site preservation.	<u>X</u>	No revisions to code at this time.
86-35	Floodplain ordinance	Adopts the Floodplain Management Ordinance conforming to the format of the Florida Building Code.	<u>X</u>	No revisions to code at this time.



MEMORANDUM

CITY OF PALM BEACH GARDENS

DATE:	January 7, 2021
TO:	File
FROM:	Michael Morrow, Operations Director
SUBJECT:	NPDES Annual Report Year 4, Cycle 4 Legal Authority

This memorandum is regarding the legal authority information for the NPDES Annual Report Year 4, Cycle 4. City legislation of legal authority enactment was handled on a case-by-case basis through the City's resolution process for development, redevelopment, and future developments because in Ordinance 3, 1993 adopted the City of Palm Beach Gardens did not include the construction site BMP provision. In order to meet the requirement for Part 9a of the Annual Report going forward as recommended by FDEP in our recent audit, the City will begin the legislative process to modify Ordinance 3,1993 to include construction site BMP's. This process is rather lengthy, and the City will provide draft copies to all parties involved for review and approval of the required language. Upon adoption of the revised ordinance, we will forward the documentation to your office.

Should you have any questions, please feel free to contact me.

attachments