

# 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 (<u>http://www.dep.state.fl.us/water/stormwater/npdes/contacts.htm</u>). Files larger than 10MB may be placed on the FTP site at: <u>ftp://ftp.dep.state.fl.us/pub/NPDES\_Stormwater/</u>. 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

SECI	TION I. BACKGROUND INFORMATION				
Α.	Permittee Name: City of Palm Beach Garder	าร			
В.	Permit Name: Palm Beach County MS4				
C.	Permit Number: FLS000018-004 (Cycle 4)				
D.	Annual Report Year: 🗌 Year 1 🛛 Year 2	🛛 Year 3 🛛 [	Year 4	] Year 5 [	Other, specify Year:
E.	Reporting Time Period (month/year): Octobe	er / 2018 through	September /	2019	
	Name of the Responsible Authority: Mr. Todo	d Engle, P.E.			
	Title: City Engineer				
_	Mailing Address: 10500 North Military Trail				
Г.	City: Palm Beach Gardens	Zip Code: 3341	0	County: P	alm Beach
	Telephone Number: 561-804-7012		Fax Number	: 561-799-4	211
	E-mail Address: tengle@pbgfl.com				
	Name of the Designated Stormwater Manage	ement Program C	ontact (if diffe	rent from Se	ection I.F above):
	Title:				
	Department:				
G.	Mailing Address:				
	City:	Zip Code:		County:	
	Telephone Number:		Fax Number	:	
	E-mail Address:		1		

SECT	ION II. MS4 MAJOR OUTFALL INVENTORY (Not Applicable in Year 1)
Α.	Number of outfalls ADDED to the outfall inventory in the current reporting year (insert "0" if none): 1 (Does this number include non-major outfalls? 🛛 Yes 🗌 No 🗌 Not Applicable) <b>District Park</b>
В.	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?
C.	Is the change in the total number of outfalls due to lands annexed or vacated? 🗌 Yes 🛛 No 🗌 Not Applicable

SECT	ION III. PART V.B. ASSESSMENT PROGRAM
	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. <u>DEP Note:</u> If permittee participates in a collaborative monitoring plan, permittee may refer to a joint response as defined by the interlocal agreement.
	Name and date of the approved plan.
А.	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
	Status:
	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 for Palm Beach Gardens. See Attachment 1
	Provide a brief discussion of the monitoring and leading results to date which includes a summary of the water quality
	monitoring data and / or stormwater pollutant loading changes from the reporting year. <u>DEP Note:</u> Results must be specific to the permittee's SWMP.
В.	See attached Annual Assessment Report for Palm Beach Gardens. See Attachment 1
	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. <u>DEP Note:</u> Analysis must be specific to the permittee's SWMP.
C.	See attached Annual Assessment Report for Palm Beach Gardens. See Attachment 1

SECI	TION IV. FISCAL ANALYSIS
А.	Total expenditures for the NPDES stormwater management program for the current reporting year: <u>\$ 3,095,157.</u> for 2018/2019 actual budget
В.	Total budget for the NPDES stormwater management program for the subsequent reporting year: <u>\$ 3,514,947.</u> for 2019/2020 budget year 4
	Did the current reporting year resources decrease from the previous year? Y $\boxtimes$ / N $\square$
	If program resources decreased, provide a discussion of the impacts on the implementation of the SWMP.
c.	One-time capital expenditures such as repairs of non-major outfalls and slip lining /in situ repairs of the existing stormwater system occurred during year 2. In light of this, no negative impacts on the implementation of the SWMP due to the reduced yearly expenditures from year 2 to year 3.

#### 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	<u>N/A</u>	Required Attachments	Permit Citation	Attachment Number/Title
	$\boxtimes$	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	
	$\boxtimes$	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 V.B.3	See Joint Annual Report and PBG Assessment Report Attachment #1
	$\boxtimes$	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 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	See Joint Annual Report and PBG Assessment Report Attachment #1.
	$\boxtimes$	YEAR 3: Summary of TMDL Monitoring Results (if applicable).	Part VIII.B.2	
	$\boxtimes$	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	
		<ul> <li>YEAR 4: Permit re-application information in accordance with Rule 62-624.420(2), F.A.C.</li> <li>The monitoring plan (with revisions, if applicable).</li> <li>If the total annual pollutant loadings have not decreased over the past two permit cycles, revisions to the SWMP, as appropriate.</li> </ul>	Part V.B.3 Part V.A.3	
	$\boxtimes$	YEAR 4: TMDL Supplemental SWMP (if applicable).	Part VIII.B.3	
		DO NOT SUBMIT ANY OTHER MAT	ERIALS	

(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:	1211712019

SECTION VII.	STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMA	RY TABI	щ						
A.	B.				ပ		D.	Ш	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Act	iivity			Number Activiti Perform	· of es ied	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.1	Structural Controls and Stormwater Collection Systems Op	beration							
	Report the current known inventory.								
	Report the number of inspection and maintenance activities cor total inventory of each type of structure inspected and maintainc	nducted field.	or each ;	applicab	le type of	structur	e included in Table	ell.A.1.a, and the pe	rcentage of the
	Note: Delete structures that are not in your MS4's inventory. Th with the unit of measurement in the documentation. Unit option	ne permitt 1s include	tee may ( : miles, l	choose i inear fee	ts own ui et, acres,	nit of me etc.	asurement for eacl	h structural control to	o be consistent
	Type of Structure	Number of Structures	Number of Inspections	Percent Inspected	Mumber 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 (If)	0	0	0	0	0	Public Service Logs	Public Services	None
	Grass treatment swales (miles)	50	50	100	5	10	Public Service Logs	Public Services	Inspected once per year per mile
	Dry detention systems	11	1	100	24	100	Public Service Logs	Public Services	Mowed a min of twice a month
	Wet detention systems	10	10	100	40	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	ο	ο	0	0	Public Service Logs	Public Services	
	Pollution control boxes	-	12	100	0	0	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	41	41	100	41	100	Public Service Logs	Public Services	Inspected once per year
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Ľ	Comments	Inspected once per year	Inspected as needed and during inventory process	-		Inspected annually	All requirements met
ш	Entity Performing the Activity	Public Services	Public Services	Public Services	Public Services	Public Services	
ġ	Documentation / Record	Public Service Logs	Public Service Logs	Public Service Logs	Public Service Logs	Public Service Logs	
	er of ities med	100	100	100	43	100	
U U	Numb Activi Perfor	28	12	7	600	~	
		100	100	100	43	100	
ЯГЕ		14	12	7	600	~	
	tivity	14	12	7	1400	٢	
SI URIWWAI ER MANAGEMEN I PRUGRAM (SWMP) SUMM	Permit Requirement/Quantifiable SWMP A	Weirs or other control structures	pipes / culverts (miles)	Canals	Inlets / catch basins / grates	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.
A.	Permit Citation/ SWMP Element						

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A.	B	ن ن	Ö	ш	Ŀ.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Provide an evaluation of the Stormwater Management Program according to Part VI.E	3.2 of the permit.			
Part III.A.1 Summary	Strengths: The Streets/Stormwater Division has incorporated cleaning and vide infrastructure. The City cleaned and televised 8878 feet of the stormwater syster from the system. The Streets/Stormwater Division is very proactive and conduct City's MS4 system.	eo detection as pa n, repaired 15 nor Is monthly, quarte	rt of the City's mai n-major outfalls, ar rly, and annual ins	intenance of storm nd removed 267 CY spections and main	water of sediment ntenance of the
	Limitations: None.				
	SWMP revisions implemented to address limitations: None.				
Part III.A.2	Areas of New Development and Significant Redevelopment				
	Report the number of significant development projects, including new and redevelopm stormwater considerations.	ient, reviewed and	approved by the pe	rmittee for post-deve	elopment
	Number of significant development projects reviewed	13	Plans/ Reports	Engineering	
	Number of significant development projects approved Provide in the Year 2 Annual Report the summary report of the review activity. Provid	e in the Year 4 Anr	Plans/Reports	Engineering	implementation.
	Vear 2 ONI V: Attach the summary record of the review activity				-
	Year 4 ONLY: Attach the follow-up report on plan implementation				
	Provide an evaluation of the Stormwater Management Program according to Part VI.B	1.2 of the permit.			
Part III.A.2 Summary	Strengths: Our City Program allows for significant review during the site plan a redevelopment within the City.	pproval and desig	yn process to enha	ance the storm wate	er treatment for
	SWMP revisions implemented to address limitations: None.				
Part III.A.3	Roadways				
	Report on the litter control program, including the frequency of litter collection, an estin	nate of the total nui	mber of road miles (	cleaned or amount of	f area covered
	by the activities, and an estimate of the quantity of littler collected.				
	Note: If the permittee does not contract activities, delete CONTRACTOR activities.				
	PERMITTEE Litter Control: Frequency of litter collection				Litter is
		2x monthly	Roadway Trash Collection Reports	Public Services	collected on an as needed basis/min of twice per month
	PERMITTEE Litter Control: Estimated amount of area maintained (If)	63 miles	Roadway Trash Collection Reports	Public Services	63 miles
	PERMITTEE Litter Control: Estimated amount of litter collected (gal)	3300 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	2x daily	Per Citywide Contract	Public Services	
	CONTRACTOR Litter Control: Estimated amount of area maintained (If)	25 miles	Per Citywide Contract	Public Services	25 miles
	CONTRACTOR Litter Control: Estimated amount of litter collected (gal)	369 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 nur collected. If you do not participate in an Adopt-A-Road program, report "0".	nber of road miles	cleaned and an est	imate of the quantity	of litter
	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 total nitrogen and total phosphorus loadings that were removed by the collection of swiexplanation of why not in column F.	miles swept, an es sepings. If no stree	timate of the quanti et sweeping progran	ty of sweepings colls n is implemented, pr	ected, and the ovide the
	Frequency of street sweeping	Bi-weekly	Street Sweeping Log	Public Services	
	Total miles swept	2529	Street Sweeping Log	Public Services	360 non- curbed miles/ 2169 curbed miles swept
	Estimated quantity of sweeping material collected (cy / tons)	53.4	Street Sweeping Log	Public Services	
	Total phosphorous loadings removed (pounds)	87	Quantifying Nutrient Loads	Public Services	FSA Calculator
	Total nitrogen loadings removed (pounds)	139	Quantifying Nutrient Loads	Public Services	FSA Calculator
	Report the equipment yards and maintenances shops that support road maintenance a	ictivities, and the n	umber of inspectior	ns conducted for eac	ch facility.
	Name of Facility	Number of Inspections			
	Public Works Facility	12	Municipal maintenance	Public Works	Monthly inspections
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A.	B	υ	D.	Ü	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
			yard inspection checklist		
	Provide an evaluation of the Stormwater Management Program according to Part VI.B.	2 of the permit.			
Part III.A.3 Summary	Strengths: Street Sweeping, inspections, pipe cleaning, canal and lake maintena activities within the Program.	ince, and pipe re	pair program are v	ery effective and m	easurable
	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 include stormwater treatment. The permittee shall provide a list of the projects where s it was not.	during the report tormwater treatme	ing period and the n int was not included	umber of those proje with an explanation	ects that did NOT for each of why
	Report on any stormwater retrofit planning activities and the associated implementatior drainage systems that do not have treatment BMPs.	l of retrofitting pro	jects to reduce storr	nwater pollutant loac	ls from existing
	Flood control projects completed during the reporting period				Stormwater
		1 - ongoing	Public Services	Public Services	Infrastructure improvement program
	Flood control projects completed that did not include stormwater treatment	N/A	N/A	N/A	N/A
	Stormwater retrofit projects planned/under construction	£	Public Services	Public Services	Stormwater Infrastructure improvement program
	Stormwater retrofit projects completed	7	Engineering	Engineering	Dredge & canal bank stabilization & installation of stormwater
	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.			
Part III.A.4	Strengths: Allows the City to increase storm water quality for known problem ar	eas.			
Summary	Limitations: Some areas within the City have standing water in the roadways aft 48 hours depending on rainfall amounts, as the MS4 is designed to do.	er heavy rain eve	ints; however, star	iding water will dis	sipate within 2-
	SWMP revisions implemented to address limitations: None.				

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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.5	Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an I	<b>NPDES Stormwat</b>	er Permit		
	Report the applicable facilities and the number of the inspections conducted for each fa	acility.			
	Name of Facility	Number of Inspections			
	Public Works Fleet Facility	12	Municipal maintenance yard inspection checklist	Public Works	Oil & water separator and sediment chamber
	Drovido an ovellection of the Cterminiter Manacement Decena consultant to Ded VII D	7:			Cleaned 2018
		z or the permit.			
Part III.A.5	Strengths: City of Palm Beach Gardens has none.				
	Limitations: None.				
	SWIMP REVISIONS IMPREMENTED TO ADDRESS IMPLIFATIONS: NONE.				
Part III.A.6	Pesticides, Herbicides, and Fertilizer Application				
	Report the number of permittee personnel applicators and contracted commercial appl	icators of pesticide	es and herbicides w	ho are FDACS certif	fied / licensed.
	Report the number of permittee personnel who have been trained through the Green Ir applicators of fertilizer who are FDACS certified / licensed.	ndustry BMP Prog	ram and the numbe	er of contracted comr	mercial
	PERSONNEL: FDACS public applicators of pesticides/herbicides	2	HR Personnel Files	Public Services	Licenses on file
	CONTRACTORS: FDACS commercial applicators of pesticides/ herbicides	2	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	2	Contractor Files	Public Services	Licenses on file
	Provide a copy of the adopted ordinance with the Year 2 Annual Report. If this provisio nutrient-impaired water body, indicate that in Column F.	n is not applicable	because the permi	ittee is not within the	e watershed of a
	Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance		Ordinance 20, 2011	City Engineer	See MS4 website
	Report on the public education and outreach activities that are performed or sponsored to reduce their use of pesticides, herbicides and fertilizers including the type and numb and the number of Web site visits (if applicable).	I by the permittee er of activities cor	within the permittee iducted, the type an	e's jurisdiction to enc nd number of materia	courage citizens als distributed,
	Public Education and Outreach Program	The public outrea the Palm Beach C County Joint Anni information.	ch and education pl county Co-permittee Lal Report for the pu	an is carried out as a set. Please see the Fublic education and o	a joint effort by <sup>o</sup> alm Beach outreach
	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
	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				
	Number of visitors to stormwater-related pages				
	Provide an evaluation of the Stormwater Management Program according to Part VI.B.	.2 of the permit.			
Part III.A.b	Strengths: Adopted Florida Friendly Ordinance 20, 2011.				
summary	Limitations: Enforcement during actual application of pesticide, herbicide, and f	fertilizer by reside	nts.		
	SWMP revisions implemented to address limitations: Continuing Public Educati	ion and Outreach	Program.		
Part III.A.7.a	Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforce	ement 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 Disc	charges and/or lm	proper Disposal		
	Report on the proactive inspection program, including the number of inspections conduand type of enforcement actions taken.	ucted by the permit	tee, the number of i	llicit activities found,	and the number
	Proactive inspections for suspected illicit discharges				See
		17	Proactive Inspection Program Illicit Discharge Form	Engineering Department	Attachment 2 Suspected Illicit Discharge
	Illicit discharges found during a proactive inspection		Proactive		220
		0	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 su number of investigations conducted, the number of illicit activities found, and the numb-	uspected illicit dischort and type of enfo	narges, including the rcement actions tak	e number of reports r en.	eceived, 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
	Reports of suspected illicit discharges received	3	Code Enforcement Process	Code Enforcement	Loemanns & Car in Pond & Burger Bar
	Reactive investigations of reports of suspected illicit discharges etc.	С	Code Enforcement Process	Code Enforcement	
	Illicit discharges etc. found during reactive investigation	٢	Code Enforcement Process	Code Enforcement	Burger Bar
	NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation	Ł	Code Enforcement Process	Code Enforcement	Burger Bar
	Report the type of training activities, and the number of permittee personnel and contr	tctors trained (both	in-house and outs	ide training) within th	le reporting year.
	Personnel trained	17 See leist DDC	Sign In sheet	PBC NPDES	
Part III.A.7.d	Illicit Discharges and Improper Disposal — Spill Prevention and Resonse				
	Report on the spill prevention and response activities, including the number of spills a	dressed.			
	Hazardous and non-hazardous material spills responded to	64	Fire Rescue	Fire Rescue	59 Hazardous
	Report the type of training activities, and the number of permittee personnel and contr	actors trained (both	in-house and outs	ide training) within th	le reporting year.
	Personnel trained	See Joint PBC	See Joint PBC	See Joint PBC	See Joint PBC
	Contractors trained	See Joint PBC	See Joint PBC	See Joint PBC	See Joint PBC
Part III.A.7.e	Illicit Discharges and Improper Disposal — Public Reporting				
	Report on the public education and outreach activities that are performed or sponsore reporting of suspected illicit discharges and improper disposal of materials, including t materials distributed, and the number of Web site visits (if applicable).	I by the permittee ie type and numbe	within the permittee of activities condu	e's jurisdiction to enco ucted, the type and n	ourage the public umber of
	Public Education and Outreach Program	The public outread the Palm Beach C County Joint Annu information	ch and education pl ounty Co-permittee lal Report for the pu	an is carried out as a ss. Please see the Pa ublic education and o	a joint effort by alm Beach outreach
	Brochures/Flyers/Fact sheets distributed				
	Neighborhood presentations: Number conducted				
	Neighbornood presentations: Number of participants Newspapers & newsletters: Number of articles/notices published				
	Newsletters: Number of newsletters distributed				
	Public displays (e.g., klosks, storyboards, posters, etc.) Radio or television Public Service Announcements (PSAs) School presentations: Number conducted	$\left  \right  $			
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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	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 Hazardc	ous Waste Contro			
	Report on the public education and outreach activities that are performed or sponsore proper use and disposal of oils, toxics, and household hazardous waste, including the distributed, the amount of waste collected / recycled / properly disposed, and the numt	ed by the permittee v type and number of the site visi	within the permittee if activities conducte ts (if applicable).	's jurisdiction to enco ed, the type and num	urage the ber of materials
	Public Education and Outreach Program	The public outread the Palm Beach C County Joint Annu information.	ch and education pla ounty Co-permittee: al Report for the pu	an is carried out as a s. Please see the Pa Iblic education and o	joint effort by alm Beach utreach
	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 Seepag	ē			
	Report on the type and number of activities undertaken to reduce or eliminate SSOs a found and the number resolved, and the name of the owner of the sanitary sewer systimifiltration incidents into the MS4.	and inflow/ infiltratio tem within the perm	n, the number of SS ittee's jurisdiction. F	sOs or inflow / infiltrai Report only the SSOs	tion incidents and inflow /
	Owner of the sanitary sewer system		Seacoast Uti	lity Authority	
	Activity to reduce/eliminate SSOs and I&I: Repair/lining of sanitary sewer system	0 LF lined	Seacoast Utility Authority	Seacoast Utility Authority	Liner installed
	Activity to reduce/eliminate SSOs and I&I: Emergency Generator added	Added 2 new generators	Seacoast Utility Authority	Seacoast Utility Authority	Seacoast has 35 generators
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SECTION VII.	STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE	c	ſ		I
A.	ń	<u>ز</u>	D.	ц	щ
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
					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	
	For activities required by Part III.A.7: Provide an evaluation of the Stormwater Manage	ment Program a	ccording to Part VI.B.	2 of the permit.	
Part III.A.7 Summary	Strengths: Allows staff to evaluate if there is evidence of illicit discharge for hic	h risk facilities.			
ounnary	Limitations: City can only check for illicit discharges at the time of inspection. SWMP Revisions implemented to address limitations: Varying time of inspectio	ns.			
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 facilitie	es newly added each	ı year.
	Report on the high-risk facilities inspection program, including the number of inspectio	ns conducted an	d the number and typ	e of enforcement act	tions taken.
	Type of Facilities Number of Facilities	Number of Inspections	SHOIDAY		
	Operating municipal landfills 0	• // _/			
	Hazardous waste treatment, storage, disposal and recovery 0 (HWTSDR) facilities				
	EPCRA Title III, Section 313 facilities (TRI) 0	/			
	Facilities determined as high risk by the permittee 17	17			
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	

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SECTION VII.	STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE				
A.	Ö	IJ	Ō.	ш	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Provide an evaluation of the Stormwater Management Program according to Part VI.B	2 of the permit.			
Part III.A.8	Strengths: No high-risk runoff areas in PBG.				
oummary	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	t Management P	ractices		
	Report the number of permittee and private pre-construction site plans reviewed for sto	rmwater, erosion,	and sedimentation	controls, and the nur	mber approved.
	PERMITTEE SITES: Construction site plans reviewed	2	Plans/Notes	Engineering Dept.	District Park/Golf
	PERMITTEE SITES: Construction site plans approved	2	Plans/Notes	Engineering Dept.	District Park/Golf
	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	l the number of ap	oplicants who confirr	ned ERP and CGP o	coverage.
	Notified of ERP stormwater permit requirements	13	Plans/Notes	Engineering Dept.	
	Confirmed ERP coverage	13	Plans/Notes	Engineering Dept.	
	Notified of CGP stormwater permit requirements	13	Plans/Notes	Engineering Dept.	
	Confirmed CGP coverage	13	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 year, the number of inspections of active construction sites, the percentage of enforcement actions / referrals taken.	uction sites, incluc f active constructi	ding the number of a on sites inspected, a	ictive construction sit and the number and t	tes during the type of
	PERMITTEE SITES: Active construction sites	2	Engineering Records	Engineering Dept.	District Park/Golf
	PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	100	Engineering Records	Engineering Dept.	
	PERMITTEE SITES: Percentage of active construction sites inspected	100%	Engineering Records	Engineering Dept.	
	PRIVATE SITES: Active construction sites	11	Engineering Records	Engineering Dept.	
	PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	200	Engineering Records	Engineering Dept.	Site inspections
	PRIVATE SITES: Percentage of active construction sites inspected	100%	Engineering	Engineering	
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SECT	TION VII. ST	TORMWA	.TER MANAGEMENT PROGRAM (SWMP) SUMMARY TABI	Щ				
	A.		B.		с <sup>;</sup>	D.	ш	.F.
Perm SWM	it Citation/ P Element		Permit Requirement/Quantifiable SWMP Activity		Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
						Records	Dept.	
			Enforcen	nent Action	N/A	Engineering Records	Engineering Dept	
Par	t III.A.9.c C	Construct	tion Site Runoff — Site Operator Training					
	R	Report the	s type of training activities, the number of inspectors, site plan	reviewers and	site operators trair	ned (both in-house a	and outside training).	
			Ö	DEP	Annual Training			
			Permittee construction site inspectors	ß	٢	Engineering Public Works Building	Engineering Public Works Building	
			Permittee construction site plan reviewers		1	Engineering Public Works Building	Engineering Public Works Building	
			Permittee construction site operators		11	Engineering Public Works Building	Engineering Public Works Building	Eng Pre-Con onsite meetings
	д.	Provide ar	r evaluation of the Stormwater Management Program accordi	ng to Part VI.B	.2 of the permit.			
Pa	rt III.A.9 S	Strengths followed.	s: City inspects construction runoff on every routine insp	ection of each	individual consti	ruction site to ensu	ure SWPPP and BM	P's are
	N N N N N N N N N N N N N N N N N N N	Limitatior SWMP rev	1s: Cannot be at every site every time it rains. visions implemented to address limitations: Require con	ractors to co	nduct their own ir	nspections after ea	ach rainfall event.	
SECT	ION VIII. CH	HANGES	TO THE STORMWATER MANAGEMENT PROGRAM (SWN	P) ACTIVITIE	S (Not Applicable	in Year 4)		
Ŕ	Permit Citatic SWMP Eleme	ijon/ Pr ient (In AC	oposed Changes to the Stormwater Management Progran cluding the Rationale for the Change) — REQUIRES DEP CTIVITY.	n Activities E	stablished as Spe PRIOR TO CHANG	cific Requirements sE IF PROPOSING	s Under Part III.A of TO REPLACE OR D	the Permit DELETE AN
		SN I	o change					
٥	Permit Citation SWMP Eleme	tion/ Cr tent (In	nanges to the Stormwater Management Program Activitie Including the Rationale for the Change)	s NOT Establi	shed as Specific I	Requirements Und	ler Part III.A of the F	Permit
o i		Th ke	ne City regularly updates a full base map to allow for the r seping process, the City owned MS4.Additionally, the City	nost accurate cleaned 3,10	and complete inv 1 LF with 1217 CF	rentory for the ins of sediments rem	oection, maintenan oved.	ce, and record-

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SE	CTION IX.	TMDL Status Rep	ort						
	YEAR 1 Pr Identificatio	ovide a table summa on number of the outf	trizing the status of th fall prioritized for TMC	ne TMDL process. Inc DL monitoring.	clude a list of prioritiz	ed TMDLs and their i	nonitoring and imple	mentation schedule;	and include the
Ŕ	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
	<b>Ath</b>								
	YEAR 3 ar TMDL wate	nd annually thereafter sr body during the rep	r, provide a summary porting period and cu	r of the estimated load	d reductions that hav date the Supplemen	re occurred for the po tal SVMNP was impler	llutant(s) of concern nented.	being discharged fro	m the MS4 to the
	Year 3: Su	bmit a Monitoring dat	ta summary or BPCP	' (if applicable).					
	Year 4: Su	bmit a Supplemental	SWMP (if applicable	.(1					
ю	WBID Number	Pollutant of Concern	Monitoring Summary / BPCP Submitted	Supplemental SWMP Submitted	<u>L</u>	rojected load reduc	tions OR Actual los	ad reductions to dat	φ
	NHA								
	$\bigwedge$								
C		t of on the other				1			
ز	No discha	rification of the statement as to react the statement of	D at the time of pern	nplementation accord nit issuance.	aing to Part VIII.B of	the permit (e.g. statu	s of monitoring to va	lidate VVLA):	

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# Attachment #2

NPDES Suspected Illicit Discharge Sites Year 3

1. Sears Auto Cleaner	3101 PGA Blvd	Car Maintenance	
2. Prestige Cleaners	4525 PGA Blvd	Cleaners	
3. Cooper	4580 PGA Blvd	Restaurant	CODE
4. Mirabella	Sedona Way	Neighborhood pools	CODE
5. The Anspach Effort	4500 Riverside Dr.	Medical Facility	
6. Biomet	4555 Riverside Drive	Biomedical Facility	
7. Gardens Pool	8780 Burns Rd.	Supply Packing Area	
8. Gardens Pool Supply	3780 Burns Rd	Pool Chemicals	
9. City of PBG	3704 Burns Rd	Fueling Station	
10. Public Works PBG	3704 Burns Rd	Fleet Maintenance	EPA
11. SCP Pool Supply	10335 Ironwood	Pool Chemicals	EPA
12. Lighthouse Sunoco	9730 Highway A1A Alt	Gas Station & Car Wash	
13. Chevron PBG	4109 Northlake	Gas Station & Car Wash	
14. Mobil #12457	4201 Northlake Blvd	Gas Station	EPA
15. Shoppes at PGA west	5530 PGA Blvd	Retail Bldg	CODE
16. Chevron Oil Co #02409	9031 N. Military Trail	Gas Station	
17. Burger Bar	4500 Donald Ross Rd	Restaurant	CODE

SITE

# CITY OF PALM BEACH GARDENS NPDES

# PERMIT PROGRAM – CYCLE 4, YEAR 3

# ATTACHMENT 1

City of Palm Beach Gardens, Florida

Annual NPDES Report

# City of Palm Beach Gardens MS4 Permit No. FLS000018-004 CYCLE 4 – YEAR 3 Water Quality Monitoring Assessment Report

# <u>Purpose</u>

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. A location map is provided in Figure 1.The following table identifies the monitoring station, along with relevant information about each location.

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

**MS4 Monitoring Station Table** 

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	ТР	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	12,865
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 (6%)	2,250	8,505	108	5	20	972
Street Sweeping	0	0	437	0	0	681
Total Loading	35,247	133,240	1,182	72	313	14,545
Percent Reduction	13%	20%	36%	34%	31%	14%

Sources: Table 16 (p. 29), Table 17 (p. 30), Table 23 (p. 36), Table 26 (p. 39) and Table 27 (p. 40) of the 'Summary of Average Annual Pollutant Loading Model Activities' report (2019) prepared by Mock-Roos.

Pollutant loadings estimates for all six (6) parameters in the Palm Beach Gardens MS4 indicate a significant reduction between 2013 and 2018.

## **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. At this time there is no need to develop further stormwater management programs.

# Figure 1



LOCATION MAP OF C17S44 MONITORING LOCATION









# Figure 4

