



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: Palm Beach County		
B.	Permit Name: Palm Beach County MS4		
C.	Permit Number: FLS000018-004		
D.	Annual Report Year: ☐ Year 1 ☒ Year 2 ☐ Year 3 ☐ Year 4 ☐ Year 5 ☐ Other, specify Year:		
E.	Reporting Time Period (month/year): October/ 2017 through September / 2018		
F.	Name of the Responsible Authority: Verdenia C. Baker		
	Title: County Administrator		
	Mailing Address: 301 N. Olive Avenue		
	City: West Palm Beach	Zip Code: 33401	County: Palm Beach County
	Telephone Number: (561) 355-2030		Fax Number: (561) 355-3982
	E-mail Address: VBaker@pbcgov.org		
G.	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Bonnie Finneran		
	Title: Environmental Director		
	Department: Environmental Resources Management		
	Mailing Address: 2300 North Jog Road, 4th Floor		
	City: West Palm Beach	Zip Code: 33411-2743	County: Palm Beach County
	Telephone Number: (561) 233-2400		Fax Number: (561) 233-2414
	E-mail Address: bfinnera@pbcgov.org		

SECTION II. MS4 MAJOR OUTFALL INVENTORY (Not Applicable in Year 1)

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

SECTION III. PART V.B. ASSESSMENT PROGRAM

A.	Provide a brief statement as to the status of 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> Name and date of the approved plan: PBC Group NPDES MS4 Permittees Water Quality Monitoring Plan. 1998. Status: See Joint Annual Report for PBC Group NPDES MS4 Permittees available at the NPDES Group Permittee's website at www.pbco-npdes.org.
B.	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. See the attached NPDES Assessment for the Cycle 4, Year 2 reporting period.
C.	Attach a monitoring data summary as required by the permit. An analysis of the data discussing changes in water quality and/or stormwater pollutant loading from previous reporting years. See Joint Annual Report for PBC Group NPDES MS4 Permittees available at the NPDES Group Permittee's website at www.pbco-npdes.org.

SECTION IV. FISCAL ANALYSIS

A.	Total expenditures for the NPDES stormwater management program for the current reporting year: \$7,843,815
B.	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$6,702,823
C.	Did subsequent program resources decrease from the current reporting period? Y ☐ / N ☒ If program resources decreased, provide a discussion of the impacts on the implementation of the SWMP.

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

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

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

DO NOT SUBMIT ANY OTHER MATERIALS

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

SECTION VI. CERTIFICATION STATEMENT AND SIGNATURE

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

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

Name of Responsible Authority (type or print): Verdenia C. Baker

Title: County Administrator

Signature: 

Date: 3/21/19

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	
	Dry retention systems	0	0	0	0	0	N.A.
	Exfiltration trench / French drains (If)	189,934	67	60%	0	0%	Job Perf. Report
	Grass treatment swales (miles)	12.1	0	0	0	0	Job Perf. Report
	Grass conveyance swales (miles)	1212.4	68	1%	54	1%	Job Perf. Report
	Dry detention systems	28	157	100%	168	100%	Dredge Job Cost
	Wet detention systems	43	247	100%	258	100%	Dredge Job Cost
	pump stations	0					
	Major outfalls	152	46	30%	0	0	Job Perf. Report
							Road &
							Due to historical

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
	Weirs or other control structures MS4 pipes / culverts (miles) 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.				operation records DEP granted a request from PBC to inspect all major outfall during the permit cycle.

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 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: Experienced staff.				
	Limitations: Limited resources				
	SWMP revisions implemented to address limitations: Additional staff funded for Permit Year 2018-2019.				
Part III.A.2	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	56	Project Files	Engineering	
	Number of significant development projects approved	56	Project Files	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	☐			
Part III.A.2 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: Experienced Engineering staff.				
	Limitations: None observed.				
	SWMP revisions implemented to address limitations: None at this time.				
Part III.A.3	Roadways				
	Report on the litter control program, including the frequency of litter collection, an estimate of the total number of road miles cleaned or amount of area covered by the activities, and an estimate of the quantity of litter collected.				
	Note: If the permittee does not contract activities, delete CONTRACTOR activities.				
	CONTRACTOR Litter Control: Frequency of litter collection	16	Vendor Reports and Dept. records	Streetscape Section's Service Vendor	
	CONTRACTOR Litter Control: Estimated amount of area maintained (lf)	666,584	Vendor Reports and Dept. records	Streetscape Section's Service Vendor	
	CONTRACTOR Litter Control: Estimated amount of litter collected (tons)	21.09	Vendor Reports and Dept. records	Streetscape Section's Service Vendor	
	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".				

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
	Trash Pick-up Events: Total miles cleaned	126.23	Event site reports and records	Keep Palm Beach County (KPBC) Beautiful	
	Trash Pick-up Events: Estimated amount of litter collected (tons)	20	Event site reports	KPBC Beautiful	
	Adopt-A-Road: Total miles cleaned	52	Adopt a Road files	PBCENG	
	Adopt-A-Road: Estimated amount of litter collected (bags, 30 gallon)	49	Adopt a Road files	PBCENG	
	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	2 times per year	Job Perf. Report	Road & Bridge	
	Total miles swept	1,807	Job Perf. Report	Road & Bridge	
	Estimated quantity of sweeping material collected (cubic yards)	2,392.00	Road Material cost Employee Report	Road & Bridge	
	Total phosphorous loadings removed (pounds)	1,980	FDEP/FSA Nutrient Load Reduction Assessment tool spreadsheet	PBC ERM	
	Total nitrogen loadings removed (pounds)	3,088	FDEP/FSA Nutrient Load Reduction Assessment tool spreadsheet	PBC ERM	
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			
PBC Vista Fleet Maintenance		1	Inspection Report	PBC Facilities Compliance 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
Part III.A.3 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit. Strengths: Well organized maintenance program Limitations: Occasional equipment maintenance issues. 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 BMP's.				
	Flood control projects completed during the reporting period Flood control projects completed that did not include stormwater treatment Stormwater retrofit projects planned/under construction	0 0 0	Dept. Records Dept. Records	Engineering & Public Works Engineering & Public Works	Funding for MSTUs exhausted. No Flood Control Projects currently under construction.
	Stormwater retrofit projects completed 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.	0 ☐	Dept. Records	Engineering & Public Works	
	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
Part III.A.4 Summary	Strengths: Experienced Engineering staff and contracting methods. Limitations: PBC MSTU funding exhausted which provided 50% of projects costs. SWMP revisions implemented to address limitations: None at this time. MSTU projects may still proceed if property owners agree to the assessments.				

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.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			
	South County Transfer Station	14	Inspection Report	Env. Programs	
	Central County Transfer Station	14	Inspection Report	Env. Programs	
	Glades Regional Transfer Station	14	Inspection Report	Env. Programs	
	West Central Transfer Station	14	Inspection Report	Env. Programs	
	North County Transfer Station	14	Inspection Report	Env. Programs	
	Southwest County Tansfer Station	14	Inspection Report	Env. Programs	
Part III.A.5 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: Well managed facilities designed to retain 100 year storm event.				
	Limitations: None observed				
	SWMP revisions implemented to address limitations: None at this time.				
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	Parks & Recreation IFAS Documentation	PBC UF/IFAS	
	CONTRACTORS: FDACS commercial applicators of pesticides/ herbicides	9	Parks & Recreation IFAS Documentation	PBC UF/IFAS	
	PERSONNEL: Green Industry BMP Program training completed	15	Parks & Recreation IFAS Documentation	FYN	
	CONTRACTORS: FDACS certified / licensed applicators of fertilizer	10	Parks & Recreation IFAS Documentation	FYN	
	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.				

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
	FYN: School presentations: Number of participants	27	IFAS Monthly Reports	FYN	
	FYN: Seminars/Workshops: Number conducted	46	IFAS Monthly Reports	FYN	
	FYN: Seminars/Workshops: Number of participants	1,528	IFAS Monthly Reports	FYN	
	FYN: Special events: Number conducted	12	IFAS Monthly Reports	FYN	
	FYN: Special events: Number of participants	3,063	IFAS Monthly Reports	FYN	
Part III.A.6 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: Extensive range of training, certification and educational programs.				
	Limitations: None observed.				
Part III.A.7.a	SWMP revisions implemented to address limitations: None at this time.				
	Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures				
	Report amendments in Year 4.				
Part III.A.7.c	Year 4 ONLY: Attach a report on amendments to applicable legal authority	☐			
	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	11	Proactive Insp. database	PBC ERM	
	Illicit discharges found during a proactive inspection	0	Proactive Insp. database	PBC ERM	No violations observed.
	NOV/WL/citation/fines issued for illicit discharges found during proactive inspection	0		PBC ERM	No violations observed.
	Year 1 ONLY: Attach the written proactive inspection program plan	☐		PBC ERM	Attached.
	Report on the reactive investigation program as it relates to responding to reports of suspected illicit discharges, including the number of reports received, the number of investigations conducted, the number of illicit activities found, and the number and type of enforcement actions taken.				
	Reactive investigations of reports of suspected illicit discharges etc.	5	Complaint Log.	PBC ERM	
	Illicit discharges etc. found during reactive investigation	5	Complaint Log.	PBC ERM	Diesel escaped secondary containment
	NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation	1	Complaint Log.	PBC ERM	Compliance action taken by DEP
		0		PBC ERM	

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
	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	3	Attendance Log.	PBC NPDES Steering Committee.	
	Contractors trained	N.A.			Contractors are not utilized.
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	402	Special Operations Situation Dispatches	PBC Fire- Rescue	
	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	1,479	HazMat Competency Database	PBC Fire- Rescue	
	Contractors trained	N.A.			Contractors not utilized.
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).				
	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 available at the Group Permittee's website at www.pbco-npdes.org.				
Part III.A.7.f	Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control				
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage the proper use and disposal of oils, toxics, and household hazardous waste, including the type and number of activities conducted, the type and number of materials distributed, the amount of waste collected / recycled / properly disposed, and the number of Web site visits (if applicable).				
	Estimated percentage of the population reached by Palm Beach County Home Chemical Collection Program Brochures/Flyers/Fact sheets distributed	80%		Solid Waste Authority	
		105,600	Brochures	Recycling/ HHW Services/ Public Affairs	
	Household Hazardous Waste (HHW) Collection Day: Events	2,170	Disposal Records	HHW Services	

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	HHW Collection Day: Amount of waste collected/recycled/disposed (tons)	1,848	Disposal Records	HHW Services	
	Neighborhood presentations: Number conducted	168	Samples	Recycling	
	Newspapers & newsletters: Number of articles/notices published	6402	Samples	Recycling	
	Newsletters: Number of newsletters distributed	0	N.A.	Media Arts	
	Public displays (e.g., kiosks, storyboards, posters, etc.)	7	Samples	Public Affairs	
		138	Samples	Recycling/ Community Services	
	Radio or television Public Service Announcements (PSAs)	4000	DVD	Public Affairs	
	School presentations: Number conducted	218	Samples	Recycling	
	School presentations: Number of participants	8320	Samples	Recycling	
	Seminars/Workshops: Number conducted	5	Samples	Recycling	
	Seminars/Workshops: Number of participants	69	Samples	Recycling	
	Special events: Number conducted	38	Samples	Recycling/ Community Services	
	Special events: Number of participants	275,684	Samples	Recycling/ Com. Service	
Part III.A.7.g	Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage				
	Report on the type and number of activities undertaken to reduce or eliminate SSOs and inflow/ infiltration, the number of SSOs or inflow / infiltration incidents found and the number resolved, and the name of the owner of the sanitary sewer system within the permittee's jurisdiction. Report only the SSOs and inflow / infiltration incidents into the MS4.				
	Owner of the sanitary sewer system			Palm Beach County Water Utilities	
	Activity to reduce/eliminate SSOs and I&I: Repair / lining of sanitary sewer system (ft.)	108,994	I & I Monthly Activity Report	WUD Const. Group	
	Activity to reduce/eliminate SSOs and I&I: Lift Station Rehabilitation / Conversion	50	I & I Monthly Activity Report	WUD Const. Group	
	SSO incidents discovered	0	I & I Monthly Activity Report	WUD Const. Group	No SSO to MS4 or water bodies.
	SSO incidents resolved	0	I & I Monthly Activity Report	WUD Const. Group	No SSO to MS4 or water bodies.
	Inflow / infiltration incidents discovered	0	I & I Monthly Activity Report	WUD Const. Group	None reported.
	Inflow / infiltration incidents resolved	0	I & I Monthly Activity Report	WUD Const. Group	None reported.

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.7 Summary	For activities required by Part III.A.7: Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.					
	Strengths: Well trained and motivated staff					
	Limitations: None Observed					
Part III.A.8.a	SWMP Revisions implemented to address limitations: None at this time.					
	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	1	0	0		The PBC Solid Waste Authority has one operating landfill with a NPDES Permit and does not discharge to any MS4.
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	N.A.				None in PBC.
	EPCRA Title III, Section 313 facilities (TRI)	4	4	0	Database	No discrepancies observed.
	Facilities determined as high risk by the permittee	0			PBC ERM	None identified through the proactive inspections.
	Industrial and High-Risk Runoff — Monitoring for High Risk Industries					
	Report the number of high risk facilities sampled.					
Part III.A.8.b	High risk facilities sampled		N.A.			

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.8 Summary	For activities required by Part III.A.8: Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: Lack of industrial activity and High-Risk facilities in PBC.				
	Limitations: None.				
Part III.A.9.a	SWMP revisions implemented to address limitations: None at this time.				
	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	26	List of active PBC job sites during the Permit Year.	PBC Engineering Construction Coordination.	
	PERMITTEE SITES: Construction site plans approved	26	List of active PBC job sites during the Permit Year.	PBC Engineering Construction Coordination.	
	PRIVATE SITES: Construction site plans reviewed	12	Construction Inspection database.	Construction Inspection database.	
	PRIVATE SITES: Construction site plans approved	12	Construction Inspection database.		
	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	56	Project Files	Engineering Land Development Div	
	Confirmed ERP coverage	56	Project Files	Engineering Land Development Div	
	Notified of CGP stormwater permit requirements	101	DRO Comments and ERM Plat reviews	PBC ERM	This is a summation of Development Review Office comments and Plat review comments.
	Confirmed CGP coverage	12	Construction Inspection database		

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.9.b	Construction Site Runoff — Inspection and Enforcement Report on the inspection program for privately-operated and permittee-operated construction sites, including the number of active construction sites during the reporting year, the number of inspections of active construction sites, the percentage of active construction sites inspected, and the number and type of enforcement actions / referrals taken.				
	PERMITTEE SITES: Active construction sites	12	List of active PBC job sites during the Permit Year.	PBC Engineering Construction Coordination	
	PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	251	Inspection Reports	PBC Engineering Construction Coordination	
	PERMITTEE SITES: Percentage of active construction sites inspected	100%	Inspection Reports	PBC Engineering Construction Coordination	
	PRIVATE SITES: Active construction sites	11	Construction Inspection database.	Construction Inspection database.	
	PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	30	Construction Inspection database.	PBC ERM	
	PRIVATE SITES: Percentage of active construction sites inspected	100%	Construction Inspection database.	PBC ERM	
	Enforcement Action	2		PBC ERM	Notices of Non-compliance.
	Year 1 ONLY: Attach the written construction site inspection program plan	☐			
Part III.A.9.c	Construction Site Runoff — Site Operator Training Report the type of training activities, the number of inspectors, site plan reviewers and site operators trained (both in-house and outside training).				
	DEP Certification	Annual Training			
	Permittee construction site inspectors	7	DEP certification training Attendance log and Engineering Coordination pre-construction meetings.	Florida Stormwater Erosion and Sediment Control Inspector Training/ EXCAL Visual	

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
		DEP Certification	Annual Training			
	Permittee construction site plan reviewers		12	PBC Engineering Coordination Preconstruction plan review meetings with construction contractors	PBC Engineering Coordination	All PBC inspectors have received DEP Certification.
	Permittee construction site operators		12	PBC Engineering Coordination Preconstruction plan review meetings with construction contractors	PBC Engineering Coordination	
For activities required by Part III.A.9: Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.						
Part III.A.9 Summary	Strengths: Well trained and experienced inspection staff.					
	Limitations: None.					
	SWMP revisions implemented to address limitations: None.					

SECTION VIII. CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable in Year 4)	
A.	Permit Citation/ SWMP Element
	Proposed Changes to the Stormwater Management Program Activities Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change) ——— REQUIRES DEP APPROVAL PRIOR TO CHANGE IF PROPOSING TO REPLACE OR DELETE AN ACTIVITY.
	No changes proposed.
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)

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
3264A	E-1 Canal	Fecal Coliform	☒ / ☐	97%	1	TBD	(Year 3 AR)	(Year 4 AR; N/A) if BPCP
3262A	Lake Ida	TN & TP	☐ / ☒ ☐ / ☐	TN 20% TP 45%	2	TBD		

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				
		(Year 3 AR)	(Year 4 AR; N/A if BPCP)					

C. Provide a brief statement as to the status of TMDL implementation according to Part VIII.B. of the permit (e.g. status of monitoring to validate WLA):

Monitoring Plan for E-1 Canal Fecal Coliform TMDL is complete and monitoring commenced January 2019.

ATTACHMENTS



**Department of Engineering
and Public Works**

P.O. Box 21229

West Palm Beach, FL 33416-1229

(561) 684-4000

FAX: (561) 684-4050

www.pbcgov.com



**Palm Beach County
Board of County
Commissioners**

Mack Bernard, Mayor

Dave Kerner, Vice Mayor

Hal R. Valeche

Gregg K. Weiss

Robert S. Weinroth

Mary Lou Berger

Melissa McKinlay

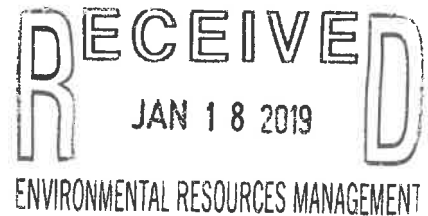
County Administrator

Verdenia C. Baker

*"An Equal Opportunity
Affirmative Action Employer"*



printed on sustainable
and recycled paper



INTEROFFICE MEMORANDUM

DATE: January 18, 2019

TO: Deb Drum, Department Director
Environmental Resources Management

FROM: Joanne M. Keller, PE, Director *JK*
Land Development Division

RE: NPDES Permit Requirements

Based on this year's review of the Palm Beach County (County) Land Development Regulations in relation to potential impediments to low impact design practices for stormwater runoff, we find that no changes to the current regulations are necessary or desirable at this time.

Stormwater discharge limits and water quality treatment requirements consistent with State standards are already applied to all new projects by South Florida Water Management District (SFWMD) regulations. In some SFWMD basins, there are additional discharge limits placed by the County. Incorporation of low impact design practices by the developer is possible and not precluded by current County standards.

In summary, there are no changes to the existing codes and regulations needed to further reduce stormwater impacts of new development or redevelopment.

cc via email: David L. Ricks, PE, County Engineer
Tanya N. McConnell, PE, Deputy County Engineer
David Young, PE, Roadway Production
Brian Gentry, Environmental Program Supervisor

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25

3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

26
27
28
29
30

31
32
33
34

35

36

1 **WHEREAS**, surface water runoff and baseflow runoff leaves residential
2 neighborhoods, commercial centers, industrial areas, and other lands of Palm Beach
3 County and enters into natural and artificial stormwater and drainage conveyances and
4 natural water bodies in Palm Beach County; and

5 **WHEREAS**, phosphorus and nitrogen, the primary nutrients associated with the
6 degradation of groundwater and surface water, are commonly the primary components
7 of fertilizer for turf and landscape application; and

8 **WHEREAS**, the quality of streams, lakes, and wetlands is critical to
9 environmental, economic, and recreational prosperity and to the health, safety, and
10 welfare of the residents of Palm Beach County; and

11 **WHEREAS**, algae blooms and accelerated growth of aquatic weeds in Palm
12 Beach County's water bodies have heightened community concerns about water quality
13 and eutrophication of surrounding waters; and

14 **WHEREAS**, it is generally recognized that Palm Beach County soils naturally
15 have adequate phosphorus content for most vegetative needs and that additional
16 phosphorus is therefore only occasionally needed to create or maintain a vibrant
17 landscape; and

18 **WHEREAS**, it has been recognized that proper application of slow-release
19 nitrogen sources is more efficiently used by plants and less likely to leach or runoff; and

20 **WHEREAS**, this Ordinance is part of a comprehensive plan to address nonpoint
21 sources of nutrient pollution which is scientifically based, and economically and
22 technically feasible; and

23 **WHEREAS**, in the process of adoption of this Ordinance, the Board of County
24 Commissioners has considered all relevant scientific information, including input from
25 the Department of Environmental Protection. the Department of Agriculture and

1 **SECTION II. DEFINITIONS:**

2 For this Ordinance, the following terms shall have the meanings set forth in this
3 section unless the context clearly indicates otherwise.

4 1. "Application" or "Apply" means the actual physical deposition of fertilizer to
5 turf or landscape plants.

6 2. "Applicator" means any person, including but not limited to, residential
7 homeowners, commercial and institutional applicators who apply fertilizer on turf and/or
8 landscape plants in unincorporated Palm Beach County.

9 3. "Approved Test" means a soil test from the University of Florida,
10 government, or other commercial licensed laboratory that regularly performs soil testing
11 and recommendations.

12 4. "Best Management Practices (BMP's)" means turf and landscape
13 practices or combination of practices based on research, field-testing, and expert
14 review, determined to be the most effective and practical site-specific means, including
15 economic and technological considerations, for improving water quality, conserving
16 water supplies and protecting natural resources.

17 5. "Code Enforcement Officer", "Official", or "Inspector" means any
18 designated employee or agent of Palm Beach County whose duty it is to enforce codes
19 and ordinances enacted by Palm Beach County.

20 6. "Commercial Fertilizer Applicator" except as provided in section
21 482.1562(9), F.S., means any person who applies fertilizer for payment or other
22 consideration to property not owned by the person or firm applying the fertilizer or the
23 employer of the applicators.

24 7. "Fertilizing" or "Fertilization" means the act of applying fertilizer to turf,
25 specialized turf, or landscape plants.

1 under the circumstances), that applies fertilizer for the purpose of maintaining turf
2 and/or landscape plants. Institutional Applicators shall include, but shall not be limited
3 to, owners, managers, or employees of public lands, schools, parks, religious
4 institutions, utilities, industrial or business sites and any residential properties
5 maintained in condominium and/or common ownership.

6 10. "Landscape Plant" means any native or non-native tree, shrub, or
7 groundcover (excluding turf).

8 11. "Pasture" means land managed for livestock grazing.

9 12. "Person" means any natural person, business, corporation, limited liability
10 company, partnership, limited partnership, association, club, organization, and/or any
11 group of people acting as an organized entity.

12 13. "Prohibited Application Period" means the time period during which a
13 Flood Watch or Warning, a Tropical Storm Watch or Warning, or a Hurricane Watch or
14 Warning is in effect for any portion of Palm Beach County, issued by the National
15 Weather Service, or if heavy rain (2 inches or more within a twenty-four (24) hour
16 period) is likely.

17 14. "Saturated Soil" means a soil in which the voids are filled with water.
18 Saturation does not require flow. For the purposes of this Ordinance, soils shall be
19 considered saturated if standing water is present or the pressure of a person standing
20 on the soil causes the release of free water.

21 15. "Slow-Release", "Controlled Release", "Timed Release", "Slowly-
22 Available", or "Water Insoluble Nitrogen" means nitrogen in a form which delays its
23 availability for plant uptake and use after application, or which extends its availability to
24 the plant longer than a reference rapid or quick release product.

25 16. "Turf", "Sod", or "Lawn" means an area of grass-covered soil held together

1 **SECTION III. FINDINGS:**

2 As a result of the Florida Department of Environmental Protection's determination
3 that certain water bodies within Palm Beach County are impaired for excessive nutrient
4 levels, the Board of County Commissioners of Palm Beach County finds that the best
5 management practices contained in the most recent edition of the "*Florida-Friendly Best*
6 *Management Practices for Protection of Water Resources by the Green Industries*", are
7 required in this Ordinance.

8 **SECTION IV. PURPOSE AND INTENT:**

9 This Ordinance regulates the proper use of fertilizers by any applicator; requires
10 proper training of commercial and institutional fertilizer applicators; establishes training
11 and licensing requirements; establishes a Prohibited Application Period; and specifies
12 allowable fertilizer application rates and methods, fertilizer-free zones, and exemptions.
13 This Ordinance requires the use of Best Management Practices to minimize negative
14 environmental effects associated with excessive nutrients in our water bodies. These
15 environmental effects have been observed in and on Palm Beach County's natural and
16 constructed stormwater conveyances, rivers, creeks, canals, lakes, estuaries and other
17 water bodies. Collectively, these water bodies are an asset critical to the
18 environmental, recreational, cultural and economic well-being of Palm Beach County
19 residents and the health of the public. Overgrowth of algae and vegetation hinder the
20 effectiveness of flood attenuation provided by natural and constructed stormwater
21 conveyances. Regulation of nutrients, including both phosphorus and nitrogen
22 contained in fertilizer, is anticipated to help improve and maintain water and habitat
23 quality.

24 **SECTION V. APPLICABILITY:**

25 This Ordinance shall be applicable to and shall regulate any and all applicators of

1 **SECTION VI. TIMING OF FERTILIZER APPLICATIONS.**

2 1. No applicator shall apply fertilizers containing nitrogen and/or phosphorus
3 to turf and/or landscape plants during the Prohibited Application Period or to saturated
4 soils.

5 2. Fertilizer containing nitrogen and/or phosphorus shall not be applied
6 before seeding or sodding a site, and shall not be applied for the first thirty (30) days
7 after seeding or sodding, except when hydro-seeding for temporary or permanent
8 erosion control in an emergency situation (wildfire, etc), or in accordance with the
9 Stormwater Pollution Prevent Plan for that site.

10 **SECTION VII. FERTILIZER FREE ZONES:**

11 Fertilizer shall not be applied within ten (10) feet, or three (3) feet if a deflector
12 shield or drop spreader is used, of any pond, stream, water body, lake, canal, or
13 wetland as defined by the Florida Department of Environmental Protection (Chapter 62-
14 340), Florida Administrative Code) or from the top of a seawall or lake bulkhead. Newly
15 planted turf or landscape plants may be fertilized in this zone only for a sixty (60) day
16 period beginning no sooner than thirty (30) days after planting if needed to allow the
17 plants to become well established. Caution shall be used to prevent direct deposition of
18 nutrients into the water.

19 **SECTION VIII. FERTILIZER CONTENT AND APPLICATION RATES:**

20 1. Fertilizers applied to turf within unincorporated Palm Beach County shall
21 be applied in accordance with requirements and directions provided by Rule 5E-
22 1.003(2), Florida Administrative Code, *Labeling Requirements For Urban Turf*
23 *Fertilizers*. Under Rule 5E-1.003(2), Florida Administrative Code, required application
24 rate and frequency maximums, which vary by plant and turf types, are found on the
25 labeled fertilizer bag or container.

1 Environmental Quality on Florida Golf Courses", published by the Florida Department of
2 Environmental Protection, dated January 2007, as may be amended. Fertilizer used at
3 park or athletic fields shall be applied in accordance with Rule 5E-1.003(2), Florida
4 Administrative Code.

5 **SECTION IX. FERTILIZER APPLICATION PRACTICES:**

6 1. As required in Section VII of this Ordinance, spreader deflector shields
7 shall be used when fertilizing via rotary (broadcast) spreaders. Deflectors must be
8 positioned such that fertilizer granules are deflected away from all impervious surfaces,
9 fertilizer-free zones and water bodies, including wetlands. Any fertilizer applied, spilled,
10 or deposited, either intentionally or accidentally, on any impervious surface shall be
11 immediately and completely removed to the greatest extent practicable.

12 2. Fertilizer released on an impervious surface must be immediately
13 contained and either legally applied to turf or any other legal site, or returned to the
14 original or other appropriate container.

15 3. In no case shall fertilizer be washed, swept, or blown off impervious
16 surfaces into stormwater drains, ditches, conveyances, or water bodies.

17 Property owners and managers are encouraged to use an Integrated Pest Management
18 (IPM) strategy as currently recommended by the University of Florida Cooperative
19 Extension Service publications.

20 **SECTION X. MANAGEMENT OF GRASS CLIPPINGS AND VEGETATIVE MATTER:**

21 In no case shall grass clippings, vegetative material, and/or vegetative debris
22 intentionally be washed, swept, or blown on to or into stormwater drains, ditches,
23 conveyances, water bodies, wetlands, sidewalks or roadways. Any material that is
24 accidently so deposited shall be immediately removed to the maximum extent
25 practicable.

1 (c) any lands used for bona fide scientific research, including, but not limited
2 to, research on the effects of fertilizer use on urban stormwater, water quality,
3 agronomics, or horticulture.

4 **SECTION XII. TRAINING:**

5 1. All commercial and institutional applicators of fertilizer within Palm Beach
6 County shall abide by and successfully complete the six-hour training program in the
7 *"Florida-Friendly Best Management Practices for Protection of Water Resources by the*
8 *Green Industries"* offered by the Florida Department of Environmental Protection
9 through the University of Florida/Palm Beach County Cooperative Extension Service
10 *"Florida-Friendly Landscapes"* program or an approved equivalent program.

11 2. Non-commercial and non-institutional applicators not otherwise required to
12 be certified, such as private citizens on their own residential property, are encouraged to
13 follow the recommendations of the University of Florida/IFAS *"Florida-Friendly*
14 *Landscape Program"* and label instructions when applying fertilizers.

15 **SECTION XIII. LICENSING OF COMMERCIAL APPLICATORS:**

16 1. All businesses applying fertilizer to turf or landscape plants (including, but
17 not limited to, residential lawns, golf courses, commercial properties, and multi-family
18 and condominium properties) must ensure that the business owner or his/her designee
19 holds the appropriate *"Florida-Friendly Best Management Practices for Protection of*
20 *Water Resources by the Green Industries"* training certificate prior to the business
21 owner obtaining a Local Business Tax Certificate. Owners for any category of
22 occupation which may apply any fertilizer to Turf and/or Landscape Plants shall provide
23 proof of completion of the program to the Palm Beach County Tax Collector's Office. It
24 is the responsibility of the business owner to maintain the *"Florida-Friendly Best*
25 *Management Practices for Protection of Water Resources by the Green Industries"*

1 3. All businesses applying fertilizer to turf and/or landscape plants (including,
2 but not limited to, residential lawns, golf courses, commercial properties and multi-family
3 and condominium properties) must ensure that at least one (1) employee has an
4 appropriate "Florida-Friendly Best Management Practices for Protection of Water
5 Resources by the Green Industries" training certificate prior to the business owner
6 obtaining a Local Business Tax Certificate. Standard Business Tax Receipt (BTR and
7 transaction fees shall apply).

8 **SECTION XIV. ENFORCEMENT:**

9 The provisions of this Ordinance shall be enforced by the Palm Beach County
10 Code Enforcement Special Master pursuant to the authority granted by Section 162.01
11 et. seq., Florida Statutes, as may be amended and Article 10 of the Unified Land
12 Development Code, as may be amended. The County may also pursue these or any
13 other enforcement remedies available to and applicable to Palm Beach County.

14 **SECTION XV. PENALTIES:**

15 1. Failure to comply with the requirements of this Ordinance shall constitute
16 a violation of this Ordinance and shall be punishable by a fine not to exceed \$1,000 per
17 day for the violation or a fine not exceed \$5,000 per day for a repeat violation, and, in
18 addition, may include all costs of repairs including, but not limited to, administrative,
19 enforcement and Special Master Procedure costs. If the Special Master finds the
20 violation is irreparable or irreversible in nature, a fine not to exceed \$15,000 per
21 violation may be imposed.

22 2. In determining the amount of fines that should be imposed, the Special
23 Master shall consider the following factors: (1) the gravity of the violation; (2) any
24 actions taken by the violator to correct the violation; and (3) any previous violations
25 committed by the violator.

1 **SECTION XVI. APPEAL:**

2 An aggrieved party, including Palm Beach County, may appeal a final
3 administrative order of a Special Master to the circuit court. Such an appeal shall not be
4 a hearing de novo, but shall be limited to appellate review of the record created before
5 the Special Master. An appeal shall be filed within thirty (30) days of the execution of
6 the order to be appealed.

7 **SECTION XVII. SEVERABILITY:**

8 If any section, paragraph, sentence, clause, phrase, or word of this Ordinance is
9 for any reason held by a Court of competent jurisdiction to be unconstitutional,
10 inoperative, or void, such holding shall not affect the remainder of this Ordinance.

11 **SECTION XVIII. INCLUSION IN THE CODE OF LAWS AND ORDINANCES:**

12 The provisions of this Ordinance shall become and be made a part of the Palm
13 Beach County Code. The sections of this Ordinance may be renumbered or relettered
14 to accomplish such, and the word "ordinance" may be changed to "section", "article", or
15 other appropriate word.

16 **SECTION XIX. CAPTIONS:**

17 The captions, section headings, and section designations used in this Ordinance
18 are for convenience only and shall have no effect on the interpretation of the provisions
19 of this Ordinance.

20 **SECTION XX. EFFECTIVE DATE:**

21 The provisions of this Ordinance shall become effective upon filing with the
22 Department of State, with the exception of Section XIV, Enforcement, which shall
23 become effective on January 1, 2014.

1 APPROVED and ADOPTED by the Board of County Commissioners of Palm
2 Beach County, Florida, on this the 30th day of October, 2012.

3
4 **SHARON R. BOCK, CLERK &**
5 **COMPTROLLER**

PALM BEACH COUNTY, FLORIDA BY ITS
 BOARD OF COUNTY COMMISSIONERS

6
7
8
9 By: 

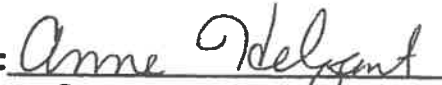
 Deputy Clerk



 By: 

 Shelley Vana, Chair

10
11
12
13 **APPROVED AS TO FORM AND**
14 **LEGAL SUFFICIENCY**

15
16
17 By: 

 County Attorney

18
19 EFFECTIVE DATE: Filed with the Department of State on the 2nd day of
November, 2012.

Permit Year 2017-2018 Annual MS4 Assessment

Annual MS4 Assessment Plan

- Annual geometric mean values are calculated for individual pollutant parameters for each water quality monitoring station.
- Water quality monitoring station annual geometric mean values are assessed by contrasting with the respective 10-12 year geometric means (contemporary water quality aggregate mean or baseline values). The annual geometric mean values of individual pollutant parameter will prove invaluable for annual trend assessments.
- Any decreases in water quality (increase in pollutant parameter values) attributed to the MS4 shall trigger an individual assessment of the nearest PBC MS4 outfalls, including drainage areas, land use, and established pollutant loading Event Mean Concentrations (EMCs) with regard to potential individual parameter values increases.
- The assessment conclusion may include recommendations for increased street sweeping and increased inspections of stormwater treatment components such as control structure operational effectiveness.

(Please see the accompanying map with data.)

C-18 Basin

The C-18 Basin contain no Palm Beach County (PBC) major outfalls and has several County roadways (MS4s). There are two NPDES water quality monitoring stations in this basin. Station 15 had a 17% decrease in total nitrogen, a 56% increase in total phosphorus (but still quite low at 25 ppb) and chlorophyll a concentrations were the same. Station 16 had a 3% decrease in total nitrogen, a 40% decrease in total phosphorus and 57% decrease in chlorophyll a. There was no assessment of the downstream SFWMD station C18S46. There are no PBC outfalls located upstream and between the two NPDES stations and the SFWMD monitoring stations on the C-18, thus no assessment was conducted. The C-18 Basin has the best water quality in Palm Beach County due to the large percentage of natural areas within the basin.

C-17 Basin

The C-17 Basin contain one NPDES water quality station and one SFWMD Station. The C-17 Basin is divided between West Palm Beach and Rivera Beach. This basin has a modest amount of County roadways and 14 PBC major outfalls discharging into the C-17 Canal. NPDES Station 12A had a 17% decrease in total nitrogen, a 7% increase in total phosphorus and a 70% decrease in chlorophyll a. SFWMD Station C17S44 had a 9% decrease in total nitrogen, total phosphorus was approximately the same as the 10-year geometric mean. The C-17 canal water quality for the permit year shows improvement in total nitrogen and chlorophyll a. Water quality is reasonably good for an urbanized basin.

C-51 Basin

The C-51 Basin (East and West) contain two NPDES water quality stations and one SFWMD Station. NPDES Station 38B had a 27% increase in total nitrogen, a 54% increase in total phosphorus and a slight

decrease in chlorophyll a. NPDES Station 37B had a 21% increase in total nitrogen, a 27% increase in total phosphorus and chlorophyll a was the same as the 10-year geometric mean. These increases are a result of regional water management and outside the influence of any Palm Beach County outfalls. SFWMD station C51S155 had a 17% increase TP and a 27% increase in TP. Chlorophyll a is not measured by SFWMD at this site. There are 3 PBC major outfalls into the C-51 Canal downstream of monitoring station 37B and 18 major outfalls into tributary canals of the C-51. The increase in nutrient parameters at the C51S155 (C-51 spillway into the Lake Worth Lagoon) was less than the increases at the western monitoring locations, thus the decrease in water quality is clearly attributed to regional water management and not MS4 outfalls. The C-51 Canal, on occasion, transfers water from Lake Okeechobee to tide. This was the case during the spring and summer of 2018, which resulted in blue-green algae monitoring by the DEP, FWC and Palm Beach County. Lake Okeechobee is impaired for total phosphorus and currently under a Basin Action Management Plan (BMAP). The C-51 Canal discharges to the central segment (WBID) of the Lake Worth Lagoon, which is listed as impaired for nutrients.

C-16 Basin

The C-16 Basin contains contain three NPDES water quality stations and one former SFWMD Station. There are 21 PBC major outfalls in the basin. NPDES Station 27B had a 17% decrease in total nitrogen, a 27% decrease in total phosphorus and a 41% decrease in chlorophyll a. NPDES Station 27A had a 17% decrease in total nitrogen, a 37% decrease in total phosphorus and a 29% decrease in chlorophyll a. NPDES Station 28 had a 15% decrease in total nitrogen, a 10% increase in total phosphorus (although a modest level at 0.077 mg/L). As a former SFWMD site a 10-year geometric mean does not exist for this site, thus no discussion of chlorophyll a change. Overall, the basin water quality during the permit year is improved from the 10-year geometric mean.

C-15 Basin

The C-16 Basin contains contain three NPDES water quality stations and one former SFWMD Station. There are 26 PBC major outfalls in the basin. NPDES Station 31E had a 22% decrease in total nitrogen, a 45% decrease in total phosphorus and a 22% increase in chlorophyll a. (Chlorophyll a is used as a surrogate for nutrients. However, often it is a poor surrogate. As in this case, total nitrogen and phosphorus have decreased, yet chlorophyll a increases.) NPDES Station 31C had a 9% decrease in total nitrogen, a 6 % decrease in total phosphorus and a 62% increase in chlorophyll a. NPDES Station 31B had a 10% decrease in total nitrogen and a 12% decrease in total phosphorus. As a former SFWMD site a 10-year geometric mean does not exist for this site, thus no discussion of chlorophyll a change. Water quality within the primary canal, the L-38/C-15 Canal, is fair to poor due remnant agriculture without structural BMPs in the western portion of the basin.

Hillsboro Basin

The majority of the Hillsboro basin is within Broward County. Water quality data from the two Broward County monitoring stations was not available from the DEP Florida STORET website, thus no assessment of change was possible.

