



# 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/](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**

<b>A.</b>	Permittee Name: Town of Hypoluxo		
<b>B.</b>	Permit Name: Palm Beach County MS4		
<b>C.</b>	Permit Number: FLS000018-004		
<b>D.</b>	Annual Report Year: <input type="checkbox"/> Year 1 <input type="checkbox"/> Year 2 <input type="checkbox"/> Year 3 <input checked="" type="checkbox"/> Year 4 <input type="checkbox"/> Year 5 <input type="checkbox"/> Other, specify Year:		
<b>E.</b>	Reporting Time Period (month/year): October / 2019 through September / 2020		
<b>F.</b>	Name of the Responsible Authority: Michael C. Brown		
	Title: Mayor		
	Mailing Address: 7580 South Federal Highway		
	City: Hypoluxo	Zip Code: 33462	County: Palm Beach
	Telephone Number: (561) 582-0155		Fax Number: (561) 582-0703
	E-mail Address: mcbrown@hypoluxo.org		
<b>G.</b>	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Leonard G. Rubin		
	Title: Town Attorney		
	Department: Torcivia, Donlon, Goddeau & Rubin, P.A.		
	Mailing Address: 701 Northpoint Parkway, Suite 209		
	City: West Palm Beach	Zip Code: 33407	County: Palm Beach
	Telephone Number: (561) 686-8700		Fax Number: (561) 686-8764
E-mail Address: len@torcivialaw.com			

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

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

**SECTION III. PART V.B. ASSESSMENT PROGRAM**

<b>A.</b>	<p>Provide a brief statement as to the status of water quality monitoring plan implementation. Status may include sampling frequency changes, monitoring location changes, or sampling waiver conditions. <i>DEP Note: If permittee participates in a collaborative monitoring plan, permittee may refer to a joint response as defined by the interlocal agreement.</i></p> <p>Name and date of the approved plan: Current approved plan for the Group Monitoring Plan is September 8, 2016 (with issuance of the Cycle 4 permit).</p> <p>Status: The Group Monitoring Report is included in the Cycle 4, Year 1 Joint Annual Report. The Town's individual Assessment Plan was approved by FDEP on January 9, 2019.</p>
<b>B.</b>	<p>Provide a brief discussion of the monitoring and loading results to date which includes a summary of the water quality monitoring data and / or stormwater pollutant loading changes from the reporting year. <i>DEP Note: Results must be specific to the permittee's SWMP.</i></p> <p>See attached Annual Assessment Report (Attachment 1)</p>
<b>C.</b>	<p>Attach a monitoring data summary as required by the permit. An analysis of the data discussing changes in water quality and/or stormwater pollutant loading from previous reporting years. <i>DEP Note: Analysis must be specific to the permittee's SWMP.</i></p> <p>See attached Annual Assessment Report (Attachment 1)</p>

**SECTION IV. FISCAL ANALYSIS**

<b>A.</b>	Total expenditures for the NPDES stormwater management program for the current reporting year: \$9,500.00
<b>B.</b>	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$10,000.00
<b>C.</b>	<p>Did the current reporting year resources decrease from the previous year? Y <input type="checkbox"/> / N <input checked="" type="checkbox"/></p> <p>If program resources decreased, provide a discussion of the impacts on the implementation of the SWMP.</p>

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

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

Attached	N/A	Required Attachments	Permit Citation	Attachment Number/Title
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Any additional information required to be submitted in this current annual reporting year in accordance with Part III.A of your permit that is not otherwise included in Section VII below.	Part III.A	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	An explanation of why the minimum inspection frequency in Table II.A.1.a. was not met, if applicable.	Part II.A.1	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	A list of the flood control projects that did not include stormwater treatment and an explanation for each of why it did not (if applicable).	Part III.A.4	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	A monitoring data summary as directed in Section III.C above and in accordance with Rule 62-624.600(2)(c), F.A.C.	Part V.B.3	See Joint Annual Report and attached Assessment Report (Attachment 1)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 1 ONLY: An inventory of all known major outfalls and a map depicting the location of the major outfalls (hard copy or CD-ROM) in accordance with Rule 62-624.600(2)(a), F.A.C.	Part III.A.1	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 2: A summary review of codes and regulations to reduce the stormwater impact from development.	Part III.A.2	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Year 3 ONLY: The estimates of pollutant loadings and event mean concentrations for each major outfall or each major watershed in accordance with Rule 62-624.600(2)(b), F.A.C.	Part V.A	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 3: Summary of TMDL Monitoring Results (if applicable).	Part VIII.B.2	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 3: Bacteria Pollution Control Plan (if applicable).	Part VIII.B.3	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	YEAR 4: A follow-up report on plan implementation of changes to codes and regulations to reduce the stormwater impact from development.	Part III.A.2	Attachment 2
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: A report on any amendments to the applicable legal authority (if applicable).	Part III.A.7.a	No amendments
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: Permit re-application information in accordance with Rule 62-624.420(2), F.A.C. <ul style="list-style-type: none"> <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	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: TMDL Supplemental SWMP (if applicable).	Part VIII.B.3	

**DO NOT SUBMIT ANY OTHER MATERIALS**  
(such as records and logs of activities, monitoring raw data, public outreach materials, etc.)

**SECTION VI. CERTIFICATION STATEMENT AND SIGNATURE**

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

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

Name of Responsible Authority (type or print): Michael C. Brown

Title: Mayor

Signature: Michael Brown Date: 03 / 01 / 21

**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	<b>Structural Controls and Stormwater Collection Systems Operation</b>						
	Report the current known inventory.						
	Report the number of inspection and maintenance activities conducted for each applicable type of structure included in Table II.A.1.a, and the percentage of the total inventory of each type of structure inspected and maintained.						
	<i>Note: Delete structures that are not in your MS4's inventory. The permittee may choose its own unit of measurement for each structural control to be consistent with the unit of measurement in the documentation. Unit options include: miles, linear feet, acres, etc.</i>						
	<b>Type of Structure</b>	Number of Structures	Number of Inspections	Percent Inspected	Number of Maintenance Activities	Percent Maintained	
	Pipes / culverts (miles)	300 feet	2	100	0	0	FY 19/20 Log
	Inlets / catch basins / grates	6	12	100	0	0	FY 19/20 Log
	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.						

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.1 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.  Strengths: Routine inspections assist in identifying areas that may be developing a problem Limitations: None SWMP revisions implemented to address limitations: N/A				
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 0 Building Official No projects Number of significant development projects approved 0 Building Official No projects 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 <input type="checkbox"/> Year 4 ONLY: Attach the follow-up report on plan implementation <input checked="" type="checkbox"/>  Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				Attachment 2
Part III.A.2 Summary	Strengths: Works in conjunction with South Water Management District requirements to upgrade system when necessary Limitations: None SWMP revisions implemented to address limitations: N/A				
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.	Monthly	Inspection Form	Individual Property Owners and Residents	Property owners are responsible for removal of trash in swales per Town Code
	PERMITTEE Litter Control: Frequency of litter collection	1.5 miles	Town Map	Town Officials	No litter collected
	PERMITTEE Litter Control: Estimated amount of area maintained (lf) PERMITTEE Litter Control: Estimated amount of litter collected (cy)	0	Inspection Form	Town Officials	No litter collected
	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".	0	None	None	No events
	Trash Pick-up Events: Total miles cleaned	0	None	None	No events
	Trash Pick-up Events: Estimated amount of litter collected (cy)	0	None	None	No program needed
	Adopt-A-Road: Total miles cleaned	0	None	None	No program
	Adopt-A-Road: Estimated amount of litter collected (cy)	0	None	None	No program



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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	<p>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.</p>	0	Field Inspection	Town Staff	Roadway system within MS4 has no curb and gutter needed
	<p>Frequency of street sweeping</p>	0	Field Inspection	Town Staff	Roadway system within MS4 has no curb and gutter needed
	<p>Report the equipment yards and maintenances shops that support road maintenance activities, and the number of inspections conducted for each facility.</p>	Number of Inspections	Field Inspection	Town Staff	No facilities
	<p>No facilities</p>	0	Field Inspection	Town Staff	No facilities

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
<p><b>II.A.3 Summary</b></p>	<p>Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.</p> <p><b>Strengths:</b> Town performs litter clean up on monthly basis. No street sweeping program due to lack of curbing within MS4</p> <p><b>Limitations:</b> None</p> <p><b>SWMP revisions implemented to address limitations:</b> N/A</p>				
<p><b>Part III.A.4</b></p>	<p><b>Flood Control Projects</b></p> <p>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.</p> <p>Report on any stormwater retrofit planning activities and the associated implementation of retrofitting projects to reduce stormwater pollutant loads from existing drainage systems that do not have treatment BMPs.</p>				
	<p><b>Flood control projects completed during the reporting period</b></p> <p>Flood control projects completed that did <u>not</u> include stormwater treatment</p> <p>Stormwater retrofit projects planned/under construction</p> <p>Stormwater retrofit projects completed</p> <p>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.</p>	<p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p>	<p>Schedule of Capital Improvements</p> <p>Schedule of Capital Improvements</p> <p>Schedule of Capital Improvements</p> <p>Schedule of Capital Improvements</p> <p>Schedule of Capital Improvements</p>	<p>Town Administration</p> <p>Town Administration</p> <p>Town Administration</p> <p>Town Administration</p> <p>Town Administration</p>	<p>Town essentially built-out – no projects or retrofits planned</p> <p>No flood control projects</p> <p>No retrofits planned/under construction</p> <p>No retrofits completed</p> <p>No projects</p>
<p><b>Part III.A.4 Summary</b></p>	<p>Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.</p> <p><b>Strengths:</b> MS4 has functioning stormwater system within built-out single-family neighborhoods</p> <p><b>Limitations:</b> None</p> <p><b>SWMP revisions implemented to address limitations:</b> N/A</p>				

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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 NPDES Stormwater Permit				
	Report the applicable facilities and the number of the inspections conducted for each facility.	Number of Inspections			
	No facilities	0	Field Inspection	Town Staff	No facilities
Part III.A.5 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit. Strengths: N/A (Town has no such facilities) Limitations: N/A SWMP revisions implemented to address limitations: N/A				
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 CONTRACTORS: FDACS commercial applicators of pesticides/herbicides PERSONNEL: Green Industry BMP Program training completed CONTRACTORS: FDACS certified / licensed applicators of fertilizer	0 1 0 1	Personnel Manual State license Personnel Manual State license	Town Staff Gonzalez Lawn and Landscape Town Staff Gonzalez Lawn and Landscape	Service contracted out Service contracted out Service contracted out
	Provide a copy of the adopted ordinance with the Year 2 Annual Report. If this provision is not applicable because the permittee is not within the watershed of a nutrient-impaired water body, indicate that in Column F.				
	Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance	<input type="checkbox"/>			
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage citizens to reduce their use of pesticides, herbicides and fertilizers including the type and number of activities conducted, the type and number of materials distributed, and the number of Web site visits (if applicable). <b>Public Education and Outreach Program</b>  Newspapers & newsletters: Number of articles/notices published  Newsletters: Number of newsletters distributed  Public displays (e.g., kiosks, storyboards, posters, etc.)			Town of Hypoluxo Town of Hypoluxo Town Clerk	Mailed to residents Mailed to residents



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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments																																							
	Number of visitors to stormwater-related pages	Unknown	Display Rack  Website	Town Clerk	Link to Fertilizer Ordinance on Website																																							
Part III.A.6 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.  Strengths: Ensures applicators have received training in proper application Limitations: None SWMP revisions implemented to address limitations: N/A																																											
Part III.A.7.a	Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures  Report amendments in Year 4.																																											
	Year 4 ONLY: Attach a report on amendments to applicable legal authority	<input type="checkbox"/>			No Amendments																																							
Part III.A.7.c	<p><b>Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit Discharges and/or Improper Disposal</b></p> <p>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.</p> <table border="1" data-bbox="812 903 925 1816"> <thead> <tr> <th>Proactive inspections for suspected illicit discharges Illicit discharges found during a proactive inspection</th> <th>Inspection Form</th> <th>Town Staff</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>Inspection Form</td> <td>Town Staff</td> </tr> <tr> <td>0</td> <td>Inspection Form</td> <td>Town Staff</td> </tr> <tr> <td>0</td> <td>Inspection Form</td> <td>Town Staff</td> </tr> </tbody> </table> <p>NOV/WL/citation/fines issued for illicit discharges found during proactive inspection</p> <p>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.</p> <table border="1" data-bbox="990 903 1136 1816"> <thead> <tr> <th>Reactive investigations of reports of suspected illicit discharges etc. Illicit discharges etc. found during reactive investigation</th> <th>Phone Log</th> <th>Town Staff</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Phone Log</td> <td>Town Staff</td> </tr> <tr> <td>0</td> <td>Phone Log</td> <td>Town Staff</td> </tr> <tr> <td>0</td> <td>Phone Log</td> <td>Town Staff</td> </tr> <tr> <td>0</td> <td>Phone Log</td> <td>Town Staff</td> </tr> </tbody> </table> <p>NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation</p> <p>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.</p> <table border="1" data-bbox="1185 903 1331 1816"> <thead> <tr> <th>Personnel trained</th> <th>Attendance Sheet</th> <th>PBC Steering Committee</th> <th>Power Point and Video Presentation</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Attendance Sheet</td> <td>PBC Steering Committee</td> <td>Power Point and Video Presentation</td> </tr> <tr> <th>Contractors trained</th> <td>Attendance Sheet</td> <td>PBC Steering Committee</td> <td></td> </tr> </tbody> </table>					Proactive inspections for suspected illicit discharges Illicit discharges found during a proactive inspection	Inspection Form	Town Staff	12	Inspection Form	Town Staff	0	Inspection Form	Town Staff	0	Inspection Form	Town Staff	Reactive investigations of reports of suspected illicit discharges etc. Illicit discharges etc. found during reactive investigation	Phone Log	Town Staff	0	Phone Log	Town Staff	0	Phone Log	Town Staff	0	Phone Log	Town Staff	0	Phone Log	Town Staff	Personnel trained	Attendance Sheet	PBC Steering Committee	Power Point and Video Presentation	1	Attendance Sheet	PBC Steering Committee	Power Point and Video Presentation	Contractors trained	Attendance Sheet	PBC Steering Committee	
Proactive inspections for suspected illicit discharges Illicit discharges found during a proactive inspection	Inspection Form	Town Staff																																										
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Part III.A.7.d	<p><b>Illicit Discharges and Improper Disposal — Spill Prevention and Response</b></p> <p>Report on the spill prevention and response activities, including the number of spills addressed.</p>																																											

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	<p>Hazardous and non-hazardous material spills responded to</p> <p>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.</p>	0	Confirmation e-mail from City of Boynton Beach	Boynton Beach Fire Rescue	None		
	<p><b>Personnel trained</b></p>	1	Attendance Sheet	PBC Steering Committee	Power Point and Video Presentation		
	<p><b>Contractors trained</b></p>	0	Attendance Sheet	PBC Steering Committee			
<p><b>Part III.A.7.e</b></p>	<p><b>Illicit Discharges and Improper Disposal — Public Reporting</b></p> <p>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).</p>						
	<p><b>Public Education and Outreach Program</b></p> <p><b>Newspapers &amp; newsletters: Number of articles/notices published</b></p> <p><b>Newsletters: Number of newsletters distributed</b></p> <p><b>Public displays (e.g., kiosks, storyboards, posters, etc.)</b></p> <p><b>Number of visitors to stormwater-related pages</b></p>	<p>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.</p> <p>1</p> <p>2,000</p> <p>1</p> <p>Unknown</p>	<p>Newsletter</p> <p>Newsletter</p> <p>Town Hall Display Rack</p> <p>Website</p>	<p>Town of Hypoluxo</p> <p>Town of Hypoluxo</p> <p>Town Clerk</p> <p>Town Clerk</p>	<p>Mailed to Residents</p> <p>Mailed to residents</p> <p>Public Reporting information and telephone number on Town Website</p>		

Part III.A.7.f	<p><b>Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control</b></p> <p>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).</p>												
	<p><b>Public Education and Outreach Program</b></p> <p>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.</p> <table border="1" data-bbox="381 73 576 892"> <tr> <td>1</td> <td>Newsletter</td> <td>Town of Hypoluxo</td> <td>Mailed to Residents</td> </tr> <tr> <td>2,000</td> <td>Newsletter</td> <td>Town of Hypoluxo</td> <td>Mailed to residents</td> </tr> <tr> <td>1</td> <td>Town Hall Display Rack</td> <td>Town Clerk</td> <td></td> </tr> </table> <p><b>Newspapers &amp; newsletters: Number of articles/notices published</b></p> <p><b>Newsletters: Number of newsletters distributed</b></p> <p><b>Public displays (e.g., kiosks, storyboards, posters, etc.)</b></p> <p><b>Number of visitors to stormwater-related pages</b></p>	1	Newsletter	Town of Hypoluxo	Mailed to Residents	2,000	Newsletter	Town of Hypoluxo	Mailed to residents	1	Town Hall Display Rack	Town Clerk	
1	Newsletter	Town of Hypoluxo	Mailed to Residents										
2,000	Newsletter	Town of Hypoluxo	Mailed to residents										
1	Town Hall Display Rack	Town Clerk											
Part III.A.7.g	<p><b>Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage</b></p> <p>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.</p>												
	<p><b>Owner of the sanitary sewer system</b></p> <p>City of Boynton Beach</p> <table border="1" data-bbox="730 73 1388 892"> <tr> <td>0</td> <td>Confirmation e-mail from City of Boynton Beach</td> <td>City of Boynton Beach</td> <td>Sanitary sewers along Park Lane East installed approximately 12 years ago and sanitary sewers installed along Lucina, Neptune and Periwinkle Drives approximately 16 years ago</td> </tr> <tr> <td>0</td> <td>Confirmation e-mail from City of Boynton Beach</td> <td>City of Boynton Beach</td> <td>None</td> </tr> <tr> <td>0</td> <td>Confirmation e-mail from City of Boynton Beach</td> <td>City of Boynton Beach</td> <td>None</td> </tr> </table> <p><b>Activity to reduce/eliminate SSOs and I&amp;I: (description)</b></p> <p><b>Activity to reduce/eliminate SSOs and I&amp;I: (description)</b></p> <p><b>SSO incidents discovered</b></p>	0	Confirmation e-mail from City of Boynton Beach	City of Boynton Beach	Sanitary sewers along Park Lane East installed approximately 12 years ago and sanitary sewers installed along Lucina, Neptune and Periwinkle Drives approximately 16 years ago	0	Confirmation e-mail from City of Boynton Beach	City of Boynton Beach	None	0	Confirmation e-mail from City of Boynton Beach	City of Boynton Beach	None
0	Confirmation e-mail from City of Boynton Beach	City of Boynton Beach	Sanitary sewers along Park Lane East installed approximately 12 years ago and sanitary sewers installed along Lucina, Neptune and Periwinkle Drives approximately 16 years ago										
0	Confirmation e-mail from City of Boynton Beach	City of Boynton Beach	None										
0	Confirmation e-mail from City of Boynton Beach	City of Boynton Beach	None										

SSO incidents resolved	0	Confirmation e-mail from City of Boynton Beach	City of Boynton Beach	None discovered
	0	Confirmation e-mail from City of Boynton Beach	City of Boynton Beach	None
	0	Confirmation e-mail from City of Boynton Beach	City of Boynton Beach	None discovered

Inflow / infiltration incidents discovered

Inflow / infiltration incidents resolved

For activities required by Part III.A.7: Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.

**Strengths:** System in place to discover illicit discharges. Reporting information at Town Hall and on website.

**Limitations:** Difficult to identify violators

**SWMP Revisions implemented to address limitations:** N/A

**Part III.A.8.a Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections**

Report on the high-risk facilities inventory, including the type and total number of high risk facilities and the number of facilities newly added each year.

Report on the high-risk facilities inspection program, including the number of inspections conducted and the number and type of enforcement actions taken.

Type of Facility	Number of Facilities	Number of Inspections	Enforcement Actions			
Operating municipal landfills	0	0	0	Field Inspection/SOP	Town Staff	No landfills
Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	0	0	0	EPA Website	Town Staff	No hazardous waste facilities
EPCRA Title III, Section 313 facilities (TRI)	0	0	0	EPA Website	Town Staff	No EPCRA facilities
Facilities determined as high risk by the permittee	0	0	0	Field Inspection/SOP	Town Staff	None

Part III.A.8.b	<p><b>Industrial and High-Risk Runoff — Monitoring for High Risk Industries</b></p> <p>Report the number of high risk facilities sampled.</p> <table border="1" data-bbox="170 73 251 1816"> <tr> <td data-bbox="170 1543 219 1816">High risk facilities sampled</td> <td data-bbox="170 1333 219 1543">0</td> <td data-bbox="170 1123 219 1333">None</td> <td data-bbox="170 913 219 1123">None</td> <td data-bbox="170 73 219 913">N/A</td> </tr> </table>	High risk facilities sampled	0	None	None	N/A																																			
High risk facilities sampled	0	None	None	N/A																																					
Part III.A.8 Summary	<p>Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.</p> <p><b>Strengths:</b> No facilities</p> <p><b>Limitations:</b> No facilities</p> <p><b>SWMP revisions implemented to address limitations:</b> No facilities</p>																																								
Part III.A.9.a	<p><b>Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices</b></p> <p>Report the number of permittee and private pre-construction site plans reviewed for stormwater, erosion, and sedimentation controls, and the number approved.</p> <table border="1" data-bbox="430 73 820 1816"> <tr> <td data-bbox="430 913 479 1816"><b>PERMITTEE SITES: Construction site plans reviewed</b></td> <td data-bbox="430 703 479 913">0</td> <td data-bbox="430 493 479 703">Building Permit Log</td> <td data-bbox="430 283 479 493">Building Official</td> <td data-bbox="430 73 479 283">No construction plans reviewed during permit period</td> </tr> <tr> <td data-bbox="479 913 527 1816"><b>PERMITTEE SITES: Construction site plans approved</b></td> <td data-bbox="479 703 527 913">0</td> <td data-bbox="479 493 527 703">Building Permit Log</td> <td data-bbox="479 283 527 493">Building Official</td> <td data-bbox="479 73 527 283">None</td> </tr> <tr> <td data-bbox="527 913 576 1816"><b>PRIVATE SITES: Construction site plans reviewed</b></td> <td data-bbox="527 703 576 913">0</td> <td data-bbox="527 493 576 703">Building Permit Log</td> <td data-bbox="527 283 576 493">Building Official</td> <td data-bbox="527 73 576 283">No private construction plans reviewed</td> </tr> <tr> <td data-bbox="576 913 625 1816"><b>PRIVATE SITES: Construction site plans approved</b></td> <td data-bbox="576 703 625 913">0</td> <td data-bbox="576 493 625 703">Building Permit Log</td> <td data-bbox="576 283 625 493">Building Official</td> <td data-bbox="576 73 625 283">None</td> </tr> </table> <p>Report the number of development permit applicants notified of the ERP and CGP, and the number of applicants who confirmed ERP and CGP coverage.</p> <table border="1" data-bbox="625 73 820 1816"> <tr> <td data-bbox="625 913 673 1816"><b>Notified of ERP stormwater permit requirements</b></td> <td data-bbox="625 703 673 913">0</td> <td data-bbox="625 493 673 703">Building Permit Log</td> <td data-bbox="625 283 673 493">Building Official</td> <td data-bbox="625 73 673 283">None</td> </tr> <tr> <td data-bbox="673 913 722 1816"><b>Confirmed ERP coverage</b></td> <td data-bbox="673 703 722 913">0</td> <td data-bbox="673 493 722 703">Building Permit Log</td> <td data-bbox="673 283 722 493">Building Official</td> <td data-bbox="673 73 722 283">None</td> </tr> <tr> <td data-bbox="722 913 771 1816"><b>Notified of CGP stormwater permit requirements</b></td> <td data-bbox="722 703 771 913">0</td> <td data-bbox="722 493 771 703">Building Permit Log</td> <td data-bbox="722 283 771 493">Building Official</td> <td data-bbox="722 73 771 283">None</td> </tr> <tr> <td data-bbox="771 913 820 1816"><b>Confirmed CGP coverage</b></td> <td data-bbox="771 703 820 913">0</td> <td data-bbox="771 493 820 703">Building Permit Log</td> <td data-bbox="771 283 820 493">Building Official</td> <td data-bbox="771 73 820 283">None</td> </tr> </table>	<b>PERMITTEE SITES: Construction site plans reviewed</b>	0	Building Permit Log	Building Official	No construction plans reviewed during permit period	<b>PERMITTEE SITES: Construction site plans approved</b>	0	Building Permit Log	Building Official	None	<b>PRIVATE SITES: Construction site plans reviewed</b>	0	Building Permit Log	Building Official	No private construction plans reviewed	<b>PRIVATE SITES: Construction site plans approved</b>	0	Building Permit Log	Building Official	None	<b>Notified of ERP stormwater permit requirements</b>	0	Building Permit Log	Building Official	None	<b>Confirmed ERP coverage</b>	0	Building Permit Log	Building Official	None	<b>Notified of CGP stormwater permit requirements</b>	0	Building Permit Log	Building Official	None	<b>Confirmed CGP coverage</b>	0	Building Permit Log	Building Official	None
<b>PERMITTEE SITES: Construction site plans reviewed</b>	0	Building Permit Log	Building Official	No construction plans reviewed during permit period																																					
<b>PERMITTEE SITES: Construction site plans approved</b>	0	Building Permit Log	Building Official	None																																					
<b>PRIVATE SITES: Construction site plans reviewed</b>	0	Building Permit Log	Building Official	No private construction plans reviewed																																					
<b>PRIVATE SITES: Construction site plans approved</b>	0	Building Permit Log	Building Official	None																																					
<b>Notified of ERP stormwater permit requirements</b>	0	Building Permit Log	Building Official	None																																					
<b>Confirmed ERP coverage</b>	0	Building Permit Log	Building Official	None																																					
<b>Notified of CGP stormwater permit requirements</b>	0	Building Permit Log	Building Official	None																																					
<b>Confirmed CGP coverage</b>	0	Building Permit Log	Building Official	None																																					
Part III.A.9.b	<p><b>Construction Site Runoff — Inspection and Enforcement</b></p> <p>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.</p> <table border="1" data-bbox="868 73 1096 1816"> <tr> <td data-bbox="868 913 917 1816"><b>PERMITTEE SITES: Active construction sites</b></td> <td data-bbox="868 703 917 913">0</td> <td data-bbox="868 493 917 703">Building Permit Log</td> <td data-bbox="868 283 917 493">Building Official</td> <td data-bbox="868 73 917 283">No active construction sites</td> </tr> <tr> <td data-bbox="917 913 966 1816"><b>PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&amp;S and waste control BMPs</b></td> <td data-bbox="917 703 966 913">0</td> <td data-bbox="917 493 966 703">Building Permit Log</td> <td data-bbox="917 283 966 493">Building Official</td> <td data-bbox="917 73 966 283">None</td> </tr> <tr> <td data-bbox="966 913 1015 1816"><b>PERMITTEE SITES: Percentage of active construction sites inspected</b></td> <td data-bbox="966 703 1015 913">0</td> <td data-bbox="966 493 1015 703">Building Permit Log</td> <td data-bbox="966 283 1015 493">Building Official</td> <td data-bbox="966 73 1015 283">None</td> </tr> </table>	<b>PERMITTEE SITES: Active construction sites</b>	0	Building Permit Log	Building Official	No active construction sites	<b>PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&amp;S and waste control BMPs</b>	0	Building Permit Log	Building Official	None	<b>PERMITTEE SITES: Percentage of active construction sites inspected</b>	0	Building Permit Log	Building Official	None																									
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<b>PERMITTEE SITES: Percentage of active construction sites inspected</b>	0	Building Permit Log	Building Official	None																																					



	<b>PRIVATE SITES: Active construction sites</b>				0	Building Permit Log	Building Official	No active construction sites
	<b>PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&amp;S and waste control BMPs</b>				0	Building Permit Log	Building Official	None
	<b>PRIVATE SITES: Percentage of active construction sites inspected</b>				0	Building Permit Log	Building Official	None
	<b>Enforcement Action</b>				0	Notice of Violation	Building Official	None
<b>Part III.A.9.c</b>	<b>Construction Site Runoff — Site Operator Training</b>							
	Report the type of training activities, the number of inspectors, site plan reviewers and site operators trained (both in-house and outside training).							
		<b>DEP Certification</b>	<b>Annual Training</b>					
	Permittee construction site inspectors	0	1		Sign-in-sheet	PBC Steering Committee		
	Permittee construction site plan reviewers		1		Certificate*	PBC Steering Committee		Course completed by Mike Crisafulle (2013) *Because documentation cannot be located, Manny Palacios will become certified at the next available training session.
	Permittee construction site operators		0		Sign-in-Sheet	PBC Steering Committee		No such activities within the Town
<b>Part III.A.9 Summary</b>	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.							
	<b>Strengths:</b> Program in place to address site runoff; however, no construction activities within MS4							
	<b>Limitations:</b> None							
	<b>SWMP revisions implemented to address limitations:</b> N/A							

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

A.	Proposed Changes to the Stormwater Management Program Activities Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change) — REQUIRES DEP APPROVAL PRIOR TO CHANGE IF PROPOSING TO REPLACE OR DELETE AN ACTIVITY.
	N/A
B.	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)
	N/A

**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
A.	N/A		□ / □	1		(Year 3 AR)	(Year 4 AR; N/A) if BPCP	
			□ / □					
			□ / □					

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
B.	N/A	(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): No discharge to a TMDL WBID at the time of permit issuance.			

# **Attachment 1**

## **Town of Hypoluxo (NPDES Stormwater Permitting Program)**

### ***'Water Quality Monitoring Assessment Report'*** (submitted as **Attachment 1** to the Town of Hypoluxo, Florida Cycle 4, Year 4 Annual NPDES Report)

Prepared by the Town of Hypoluxo  
And JLH Associates  
January, 2021

## 'Water Quality Monitoring Report'

### Introduction

The Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) permit is part of a federal program designed to reduce stormwater pollutant discharges to receiving waters of the United States. In 1987, the United States Environmental Protection Agency (EPA) was required under Section 402(p) of the Clean Water Act to develop the NPDES. In 1997, the first 5-year permit (No. FL000018) was issued by EPA to Palm Beach County's permittees. Hypoluxo is one of the joint permittees of this permit under an Interlocal Agreement with Northern Palm Beach County Improvement District. In 2001, the Florida Department of Environmental Protection (FDEP) received 'delegation' from EPA for the MS4 programs. In November 2002, the Cycle 2 MS4 Permit was issued by FDEP. The Cycle 3 permit was issued on March 2, 2011 and the Cycle 4 permit was issued on September 8, 2016. This Report is to document the assessment results under this most current permit.

### Goal/Purpose

The fundamental goal of the Town with respect to the NPDES MS4 permit is to reduce the pollutant loadings to the receiving water bodies to the maximum extent reasonable. To this end, the Report discusses the water quality monitoring program and trends of the ambient quality that the Town's MS4 discharges so that the overall effectiveness of Hypoluxo's NPDES Stormwater Permitting Program can be evaluated. Also discussed herein estimates of pollutant loads that flow into receiving waters and water quality trends from which conclusions can be drawn,

The purpose of the 'Water Quality Monitoring Report' is to provide information for the Town of Hypoluxo to determine the overall effectiveness of its stormwater management program in reducing stormwater pollutant loadings from its Municipal Separate Sewer System (MS4) to receiving 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 analyzed and Hypoluxo's contribution, if any, to those impairments will be assessed.
- 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. **Water Quality Trend Analysis** – Using the water quality monitoring results trends can be identified and evaluated.
- D. **Pollutant Loading Estimates/Results** - Pollutant loadings and results are reported.
- E. **Conclusions** - Final conclusions are made regarding 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 'Basin 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. The Town of Hypoluxo is in Group 3. The latest (Cycle 3) assessment occurred in 2017. The goal of FDEP's assessment is to update the comprehensive listing system within each Basin Group and Water Boundary Identifications (WBIDs). By reviewing the water quality data for a WBID in comparison to Chapters 62-302, 62-303, 62-303.720 and 62.303.390 of the Florida Administration Code (F.A.C.), impaired WBIDs are added or removed from the lists. WBIDs can be de-listed if a previously identified impairment cannot be verified or a Total Maximum Daily Load (TMDL) has been adopted. A TMDL represents the maximum amount of pollutant loading that can be discharged to a water body and have its designated uses still be met. The listing of impaired waters within the City's MS4 (from 2016 Cycle 3) is presented below.

- **Group:** 3
- **Cycle:** 1
- **Group Name:** Lake Worth Lagoon-Palm Beach Coast
- **Planning Unit:** Intracoastal Waterway
- **County:** Palm Beach
- **WBID:** 3226F2
- **Water Segment Name:** Intracoastal Waterway, South Segment
- **Parameters Assessed Using the Impaired Waters Rule (IWR):** Copper
- **Concentration of Criterion or Threshold Not Met:** >3.7 mg/l
- **Priority for TMDL Development:** Medium
- **Projected Year for TMDL Development:** 2010
- **Verified Period Assessment Date:** Not Identified
- **Comments:** PP=1/6 Insufficient data; VP= 9/48 Impaired. VP data have been updated using IWR Run 2010.

Lake Worth Lagoon was listed for Copper in the South Segment. All marina estuaries along the Palm Beach County coastline are listed as impaired for Copper. The Copper impairments do not appear to be related to stormwater runoff; however, it may be related to the marina boating activities in the water body. The next step in the FDEP process is to rank impairment for adopting a TMDL for the WBID. Based on this assessment, there is no identified impairments for this WBID. As such, there are no projected TMDLs for this WBID.



## Water Quality Monitoring Program/Sites

The Palm Beach Countywide water monitoring program includes 40 ambient water quality monitoring sites which were selected after coordination among the South Florida Water Management District (SFWMD), Palm Beach County Department of Environmental Resource Management (ERM), the Loxahatchee River District (LRD) Broward County and the Palm Beach County permittees.

The sites monitored are sampled and initially analyzed in-situ by staff using a multi-parameter water quality monitoring instrument. Water samples are collected, preserved, and stored in accordance with Standard Operating Procedures (SOPs). Final analysis sampling is conducted in laboratory settings under the direction of the entities listed above.

As a co-permittee of the Palm Beach Countywide Stormwater Permit, the Town of Hypoluxo uses the ambient water quality data provided by Palm Beach County MS4 Group. Based on the location of the outfall of the Hypoluxo MS4, one (1) monitoring station has been established. Station LWL-13 is an ERM monitoring site. The following information identifies this monitoring stations along with relevant information about the location. More specifically, Station LWL-13 at the Ocean Avenue Bridge in the Intracoastal Waterway South Segment (ICWW-S).

Table 1  
**MS4 Monitoring Station  
ICWW-S Watershed**

<u>Monitoring Station Number</u>	<u>Location Description</u>	<u>Northing/ Easting</u>	<u>Type</u>	<u>Watershed WBID</u>
LWL-13	Ocean Avenue Bridge in the ICWW-S	N819086.28 E968516.09	Marine	ICWW-S: 3226F2

The primary concern that FDEP has regarding the stormwater permitting program is related to nutrients and what impacts are created by nutrients into the stormwater system. The Town of Hypoluxo has evaluated nutrient monitoring results at the LWL-13 monitoring station location. Parameters are monitored typically each month for marine environments or bi-monthly for fresh water. Parameters of primary interest to FDEP and the Town are Phosphorus and Nitrogen. Chlorophyll-A can be an indicator of nutrient enrichment and was also included. The State has established criteria for TN, TP and Chlorophyll-A. TABLE 5-3 (p. 6 of 7) in the PBC Cycle 4 Year 4 Joint Annual Report identifies the criteria as follows: TN – equal to or less than 0.59 Annual Geometric Mean (AGM); TP – equal to or less than 0.050 AGM and Chlorophyll-A – equal to or less than 0.57 AGM

Based on information provided in the PBC Cycle 4 Year 4 Joint Annual Report, water quality monitoring results for the last 10 years (2011-2020) are provided in TABLE 5-8 (p. 3 of 4) for TN; TABLE 5-9 (p. 3 of 4) for TP; and, TABLE 5-10 (p. 3 of 4) Chlorophyll-A. Review of the results indicate there was exceedance of the nutrient criteria in only one (1) year of the ten (10) year period for all three (3) nutrients; not enough for TN, TP or Chlorophyll-A to be deemed impaired.

### **Water Quality Trend Analysis**

To evaluate nutrient trends, the water quality data for the period of record are extracted from the PBC Cycle 4, Year 4 Joint Annual Report, specifically for Total Nitrogen (TN), Total Phosphorus (TP) and Chlorophyll-A. These nutrients are analyzed for Station LWL-13 in the ICWW-S Watershed.

Information on the statical trend analysis conducted by the PBC MS4 group for Station LWL-13 is contained in the Cycle 4 Year 4 Joint Report. Review of Table 5-11 (p. 10 of 14) shows a 'significant' decreasing concentration trend for both TN and TP and a 'decreasing' trend at the monitoring station site. The decreasing trends are indicator of water quality improvements in the ICWW Basin.

### **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 Town of Hypoluxo lies in the Lake Worth Lagoon-South Segment (LWL-S)/WIBD 3226F2. All stormwater runoff from Hypoluxo MS4 system discharges into the Lake Worth Lagoon (Intracoastal Waterway). All six (6) parameters are analyzed and graphed in the Cycle 4, Year 3 'Summary of Average Annual Pollutant Loading Model Activities' report (2019) for all of the watersheds including the LWL-S Watershed (See Figures 3-8, pgs. 20-23) prepared by Mock-Roos for the co-permittees' reference.

Pollutant loadings for the Hypoluxo MS4 are also reported in the 'Summary of Average Annual Pollutant Loading Model Activities' report cited above. Pollutant loadings for all six (6) parameters are reported for year 2013 (Table 26, p. 39 of the report) and 2018 (Table 27, p. 40 of the report) and, specifically, for the Hypoluxo MS4 below in Table 5.

Hypoluxo has in place stormwater management programs that reduces the nutrient loading into the Lake Worth Lagoon (South Segment/WBID 3226F2. These programs include maintenance of ditches and conveyance swales, dry detention systems, public education (brochures and flyers for public distribution, annual newsletter, Town website, MS4group activities and an adopted Fertilizer Ordinance). The public education component alone allows a further 6% reduction in pollutant loadings reported in Table 5 below.

Table 5  
Pollutant Loadings (lbs/year)  
-Town of Hypoluxo-  
LWL-S Watershed

Parameter	<u>BODs</u>	<u>TSS</u>	<u>TP</u>	<u>CU</u>	<u>ZN</u>	<u>TN</u>
2013 Loads	688	3196	47	2	7	927
2018 Loads	691	3207	47	2	8	928
Other Reduction - Public Education (6% - rounded)	<u>41</u>	<u>192</u>	<u>3</u>	<u>0</u>	<u>0.5</u>	<u>56</u>
Total Amount	650	3015	44	2	7.5	872
Percent (%) Reduction	<u>5.5%</u>	<u>5.7%</u>	<u>6.4%</u>	<u>0%</u>	<u>0%</u>	<u>5.9%</u>

Sources: Tables 26 (p. 39) and 27 (p. 40) of the 'Summary of Average Annual Pollutant Loading Model Activities' report (2019) prepared by Mock-Roos.

All six (6) water quality parameters show either a reduction or remain basically the same. Copper (CU) and Zinc (ZN) differences are due to rounding to low values.

**Conclusions**

The Town of Hypoluxo stormwater management programs are effective in reducing pollutant loadings. This is supported by the water quality monitoring program (both FDEP and MS4 group information) and pollutant loading information. Currently there are no recommended changes necessary to the Town of Hypoluxo stormwater management program.

*Attachment 2*

**Town of Hypoluxo FY 19/20 NPDES Program  
'Update to Land Development Regulations'**

**Introduction/Comment**

**The Town of Hypoluxo** prepared Recommendations to revise/update the Town's Land Development Regulations (LDRs) in C4Y2 of the current NPDES permit. One recommendation related to swales; however, upon further review with FDEP, it was determined that there are no swales within the MS4. There are no further updates to the Town's LDRs proposed at this time.