



# 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 Cloud Lake		
<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): 10/01/19 through 9/30/20		
<b>F.</b>	Name of the Responsible Authority: W. Patrick Slatery		
	Title: Mayor		
	Mailing Address: 100 Lang Road		
	City: Cloud Lake	Zip Code: 33406	County: Palm Beach
	Telephone Number: (561) 686-2815		Fax Number: (561) 683-5120
	E-mail Address: townofcloudlake@msn.com		
<b>G.</b>	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Dorothy C. Gravelin		
	Title: Town Clerk		
	Department: Clerk's Office		
	Mailing Address: 100 Lang Road		
	City: Cloud Lake	Zip Code: 33406	County: Palm Beach
	Telephone Number: (561) 686-2815		Fax Number: (561) 683-5120
E-mail Address: townofcloudlake@msn.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 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 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 (N/A)

**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: 5/15/2018 (via e-mail). Status: The monitoring program is carried out jointly by the Palm Beach County (PBC) Co-permittees. See the PBC Joint Annual Report. The information relevant to the Town's MS4 is addressed in the 'Town of Cloud Lake Water Quality Monitoring Assessment Report' (See Attachment 1).</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>The information relevant to the Town's MS4 is addressed in the 'Town of Cloud Lake Water Quality Monitoring Assessment Report' (See 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 Attachment 1, the 'Town of Cloud Lake Water Quality Monitoring Assessment Report' and the Town's C4Y3 Pollutant Loading Report.</p>

**SECTION IV. FISCAL ANALYSIS**

<b>A.</b>	Total expenditures for the NPDES stormwater management program for the current reporting year: \$ 19,274
<b>B.</b>	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$ 18,208
<b>C.</b>	<p>Did the current reporting year resources decrease from the previous year? _ Y <input checked="" type="checkbox"/> N</p> <p>If program resources decreased, provide a discussion of the impacts on the implementation of the SWMP.</p> <p>N/A</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
	X	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	
	X	An explanation of why the minimum inspection frequency in Table II.A.1.a. was not met, if applicable.	Part II.A.1	
	X	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	
X		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	Refer to the Cycle 4, Year 4 Joint Annual Report and Attachment 1 - 'Town of Cloud Lake Water Quality Monitoring Assessment Report'
	X	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	
	X	YEAR 2: A summary review of codes and regulations to reduce the stormwater impact from development.	Part III.A.2	
	X	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	
	X	YEAR 3: Summary of TMDL Monitoring Results (if applicable).	Part VIII.B.2	
	X	YEAR 3: Bacteria Pollution Control Plan (if applicable).	Part VIII.B.3	
X		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 - Ordinance I49
	X	YEAR 4: A report on any amendments to the applicable legal authority (if applicable).	Part III.A.7.a	No amendments
	X	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	Refer to the Cycle 4, Year 4 Joint Annual Report
	X	YEAR 4: TMDL Supplemental SWMP (if applicable).	Part VIII.B.3	No TMDLs to address

**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): W. Slatery

Title: Mayor

Signature: W. Slatery Date: 1/4/21

**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	Documenta tion / 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			
<b>Roadway Grass Conveyance Swales (miles)</b>	1.6	1	100	0	0	Roadway Grass Swale- Structural Control Inspection Form	Dorothy Gravelin/Town Clerk	No maintenance required.  FY19/20 Log
<b>Non-Roadway Grass Conveyance Swales (linear feet)</b>	336	1	100	0	0	Non- Roadway Grass Swale- Structural Control Inspection Form	Town Clerk	No maintenance required.  FY 19/20 Log
<b>Wet Detention Systems</b>	1	2	100	0	0	Wet Detention System- Structural Control Inspection Form	Town Clerk	No maintenance required.  FY 19/20 Log
<b>Stormwater Pump Stations</b>	1	2	100	0	0	Stormwater Pump Station #1 Structural	Town Clerk	No maintenance required.

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity					Number of Activities Performed		Documenta tion / Record	Entity Performing the Activity	Comments
	Major Stormwater Outfalls							Control Inspection Form		FY 19/20 Log
		1	2	100	0	0	Major Stormwater Outfalls #1 Structural Control Inspection Form	Town Clerk	No maintenance required.  FY 19/20 Log	
	Floodgate									
		1	1	100	0	0	Control Structure #1 Inspection Procedure/ Checklist Form	Town Clerk	No maintenance required.  FY 19/20 Log	
	Pipes/Culverts (linear feet)									
		90	2	100	0	0	Pipes/Culverts- Structural Control Inspection Form	Town Clerk	No maintenance required.  FY 19/20 Log	
	Inlets/Catch Basins/Grates									
		3	3	100	0	0	Inlets/Catch Basins/Grates #1,2 & 3 Structural Control Inspection Form	Town Clerk	No maintenance required.  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.					See above		All documenta tion listed above	Town Clerk	All minimum inspections met or exceeded

<b>SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE</b>						
<b>A.</b>	<b>B.</b>		<b>C.</b>	<b>D.</b>	<b>E.</b>	<b>F.</b>
<b>Permit Citation/ SWMP Element</b>	<b>Permit Requirement/Quantifiable SWMP Activity</b>		<b>Number of Activities Performed</b>	<b>Documenta tion / Record</b>	<b>Entity Performing the Activity</b>	<b>Comments</b>

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	Documenta tion / Record	Entity Performing the Activity	Comments
<b>Part III.A.1 Summary</b>	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	<b>Strengths:</b> Structural controls in good operating condition requiring minimal maintenance at the present time.				
	<b>Limitations:</b> None identified				
	<b>SWMP revisions implemented to address limitations:</b> None needed.				
<b>Part III.A.2</b>	<b>Areas of New Development and Significant Redevelopment</b>				
	Report the number of significant development projects, including new and redevelopment, reviewed and approved by the permittee for post-development stormwater considerations.				
	<b>Number of significant development projects reviewed</b>	1	Site Plan Review Procedures contained in Stormwater Management Plan (SWMP)	Town Clerk; Planning Consultant; Engineer; Town Attorney	
	<b>Number of significant development projects approved</b>	0	Site Plan Review Procedures contained in the Stormwater Management Plan (SWMP)	Town Clerk	Development project is pending future action
	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.				
	<b>Year 2 ONLY: Attach the summary report of the review activity</b>	0	0	0	
<b>Year 4 ONLY: Attach the follow-up report on plan implementation</b>	0	0	0		
<b>Part III.A.2 Summary</b>	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	<b>Strengths:</b> The Town of Cloud Lake is primarily developed as a low density residential community that is nearly built-out; commercial zoned parcels are currently vacant and undeveloped.				
	<b>Limitations:</b> None identified				
	<b>SWMP revisions implemented to address limitations:</b> None				
<b>Part III.A.3</b>	<b>Roadways</b>				
	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.				

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documenta tion / Record	Entity Performing the Activity	Comments
	<i>Note: If the permittee does not contract activities, delete CONTRACTOR activities.</i>				
	<b>PERMITTEE Litter Control: Frequency of litter collection</b>	12	Monthly Inspection Checklist Sheets	Town Clerk	Individual property owners are responsible for litter and trash removal in the swale areas as part of the roadway swale maintenance program; FY 19/20 Log
	<b>PERMITTEE Litter Control: Estimated amount of area maintained (miles)</b>	1.6	Town Map	Town Clerk	
	<b>PERMITTEE Litter Control: Estimated amount of litter collected (bags)</b>	2	Monthly Inspection Checklist Sheets	Town Clerk	
	<b>CONTRACTOR Litter Control: Frequency of litter collection</b>	0	0	0	No private contractor
	<b>CONTRACTOR Litter Control: Estimated amount of area maintained (linear feet)</b>	0	0	0	
	<b>CONTRACTOR Litter Control: Estimated amount of litter collected (cy)</b>	0	0	0	
	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".				
	<b>Trash Pick-up Events: Total miles cleaned</b>	0	0	0	No program needed; all local streets
	<b>Trash Pick-up Events: Estimated amount of litter collected (cubic yards)</b>	0	0	0	No program needed; all local streets
	<b>Adopt-A-Road: Total miles cleaned</b>	0	0	0	No program needed
	<b>Adopt-A-Road: Estimated amount of litter collected (cubic yards)</b>	0	0	0	No program needed
	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.				



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A.	B.	C.	D.	E.	F.	
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documenta tion / Record	Entity Performing the Activity	Comments	
	Frequency of street sweeping	0	Street Sweeping Standard Operating Procedure (SOP)	No entity performing this activity	No street sweeping; the Town roadway system is entirely served by grass swales; there are no curb and gutters	
	Total miles swept	0	Street Sweeping SOP	Town Clerk		
	Estimated quantity of sweeping material collected (cy / tons)	0	Street Sweeping SOP	Town Clerk		
	Total phosphorous loadings removed (pounds)	0	FSA Spread- sheet	Town Planning Consultant		
	Total nitrogen loadings removed (pounds)	0	FSA Spread- sheet	Town Planning Consultant		
	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			
	0		0	Palm Beach County Property Appraiser	Town Clerk	No municipal facilities
	Property					

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documenta tion / Record	Entity Performing the Activity	Comments
<b>Part III.A.3 Summary</b>	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	<b>Strengths:</b> Roadway system consists entirely of local streets; litter control is performed by individual property owners requiring no contracted services; Town size (68 acres approximately) and small population creates minimal impact on local streets and litter control issues				
	<b>Limitations:</b> None identified				
	<b>SWMP revisions implemented to address limitations:</b> None				
<b>Part III.A.4</b>	<b>Flood Control Projects</b>				
	Report the total number of flood control projects that were constructed by the permittee during the reporting period and the number of those projects that did NOT include stormwater treatment. The permittee shall provide a list of the projects where stormwater treatment was not included with an explanation for each of why it was not.				
	Report on any stormwater retrofit planning activities and the associated implementation of retrofitting projects to reduce stormwater pollutant loads from existing drainage systems that do not have treatment BMPs.				
	<b>Flood control projects completed during the reporting period</b>	<b>0</b>	<b>5-Year Improvement Plan (CIP)/Comprehensive Plan (CP)</b>	<b>Planning Consultant</b>	No flood control projects during the permit year
	<b>Flood control projects completed that did <u>not</u> include stormwater treatment</b>	0	0	0	
	<b>Stormwater retrofit projects planned/under construction</b>	0	5 Year CIP/CP	Town Planning Consultant	None planned
	<b>Stormwater retrofit projects completed</b>	0	0	0	
	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	5 Year CIP/CP	Town Planning Consultant	
<b>Part III.A.4 Summary</b>	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	<b>Strengths:</b> There no imminent, or identifiable, flood control project needs; none identified in the Town's Capital Improvement Element (CIE) or 5 Year Schedule of Improvements of the Town of Cloud Lake Comprehensive Plan..				
	<b>Limitations:</b> None identified				
	<b>SWMP revisions implemented to address limitations:</b> None				

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documenta tion / Record	Entity Performing the Activity	Comments
<b>Part III.A.5</b>	<b>Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an NPDES Stormwater Permit</b>				
	Report the applicable facilities and the number of the inspections conducted for each facility.				
	<b>Name of Facility</b>	<b>Number of Inspections</b>			
	0	0	Municipal Waste Treatment, Storage and Disposal Facilities SOP	Town Clerk	No municipal facilities
<b>Part III.A.5 Summary</b>	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	<b>Strengths:</b> There are no Waste TSD Facilities in Town.				
	<b>Limitations:</b> N/A				
	<b>SWMP revisions implemented to address limitations:</b> N/A				
<b>Part III.A.6</b>	<b>Pesticides, Herbicides, and Fertilizer Application</b>				
	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.				
	<b>PERSONNEL: FDACS public applicators of pesticides/herbicides</b>	0	PHF SOP	No pesticides or herbicides applied by Town personnel; services privately contracted out	
	<b>CONTRACTORS: FDACS commercial applicators of pesticides/ herbicides</b>	4	State Licenses	Total Property Control	FY 19/20 Log
	<b>PERSONNEL: Green Industry BMP Program training completed</b>	0	PHF SOP	No fertilizers applied by Town personnel; services contracted out	
	<b>CONTRACTORS: FDACS certified / licensed applicators of fertilizer</b>	4	State Licenses	Total Property Control	FY 19/20 Log
	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.				
	<b>Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance</b>	0	Fertilizer	Town Council	Adopted

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documenta tion / Record	Entity Performing the Activity	Comments
			Ordinance		November, 2013
	<p>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).</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>			
	<p><b>Brochures/Flyers/Fact sheets distributed</b></p>	<p>36</p>	<p>Brochures/ Flyers</p>	<p>Palm Beach County (PBC) Stormwater Systems Group; PBC Solid Waste Authority (PBCSWA)</p>	<p>FY 19/20 Log</p>
	<p><b>Newspapers &amp; newsletters: Number of articles/notices published</b></p>	<p>1</p>	<p>Newsletter/ Mailing List</p>	<p>Town Clerk</p>	<p>FY 19/20 Log</p>
	<p><b>Newsletters: Number of newsletters distributed</b></p>	<p>68</p>	<p>Property Owner Mailing List/Certific ation Letter</p>	<p>Town Clerk</p>	<p>FY 19/20 Log</p>
	<p><b>Public Displays (e.g. kiosks, storyboards, posters, etc.)</b></p>	<p>1</p>	<p>Town Hall Display Rack</p>	<p>Town Clerk</p>	

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<b>Part III.A.6 Summary</b>	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	<b>Strengths:</b> Services are contracted out to a private contractor; Town has adopted a Fertilizer Ordinance; good public information system being implemented.				
	<b>Limitations:</b> None identified				
	<b>SWMP revisions implemented to address limitations:</b> None needed				
<b>Part III.A.7.a</b>	<b>Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures</b>				
	Report amendments in Year 4.				
	<b>Year 4 ONLY: Attach a report on amendments to applicable legal authority</b>	0			No amendments
<b>Part III.A.7.c</b>	<b>Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit Discharges and/or Improper Disposal</b>				
	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.				
	<b>Proactive inspections for suspected illicit discharges</b>	14	Structural Controls Inspection Forms	Code Enforcement Officer; Town Clerk	Two (2) commercially zoned lots (currently vacant) are inspected annually; no industrial lots; F19/20 Log
	<b>Illicit discharges found during a proactive inspection</b>	0	Structural Controls Inspection Forms	Code Enforcement Officer; Town Clerk	None found
	<b>NOV/WL/citations/fines issued for illicit discharges found during proactive inspection</b>	0	Proactive Illicit Discharge/Illegal Connection Inspection Form	Code Enforcement Officer	
	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.				
	<b>Reports of suspected illicit discharges received</b>	0	Reactive Illicit Discharge/Illegal Connection/	Town Clerk	

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documenta tion / Record	Entity Performing the Activity	Comments
	Reactive investigations of reports of suspected illicit discharges etc.	0	Illegal Dumping Inspection Form	Town Clerk	No investigations
		0	Reactive Illicit Discharge /Illegal Connection/ Illegal Dumping Inspection Form	Town Planning Consultant	None found
	NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation	0	Reactive Illicit Discharge/ Illegal Connection/ Illegal Dumping Inspection Form	Code Enforcement Officer	None issued
		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	Illicit Discharge Detention Elimination (IDDE) video; Spills and Skills video; and Ground Control Video	Town Planning Consultant	
Contractors trained	0	IDDE video; Spills and Skills video; and, Ground Control video	Town Planning Consultant	No contractors used for these purposes	

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<b>Part III.A.7.d</b>	<b>Illicit Discharges and Improper Disposal — Spill Prevention and Response</b>				
	Report on the spill prevention and response activities, including the number of spills addressed.				
	<b>Hazardous and non-hazardous material spills responded to</b>	0	PBC Fire Incident Report	PBC Fire Rescue Department	No spills reported during permit year
	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.				
	<b>Personnel trained</b>	1	IDDE video; Spills and Skills video; and, Ground Control video	Town Planning Consultant	
	<b>Contractors trained</b>	0	IDDE video; Spills and Skills video; and, Ground Control video	Town Planning Consultant	No contractors used for these purposes
<b>Part III.A.7.e</b>	<b>Illicit Discharges and Improper Disposal — Public Reporting</b>				
	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).				
	<b>Public Education and Outreach Program</b>	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.			
	<b>Brochures/Flyers/Fact sheets distributed</b>	36	Brochures/ Flyers	PBC Stormwater Systems Group; PBCSWA; FDEP; Town Clerk	FY 19/20 Log
	<b>Newspapers &amp; newsletters: Number of articles/notices published</b>	1	Newsletter/ Mailing List	Town Clerk	FY 19/20 Log
	<b>Newsletters: Number of newsletters distributed</b>	68	Property owner Mailing List/Certific ation Letter	Town Clerk	FY 19/20 Log
	<b>Public displays (e.g. kiosks, storyboards, etc.)</b>	1	Town Hall	Town Clerk	

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	Documenta tion / Record	Entity Performing the Activity	Comments
			Display Rack		
<b>Part III.A.7.f</b>	<b>Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control</b>				
	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).				
	<b>Public Education and Outreach Program</b>	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.			
	<b>Brochures/Flyers/Fact sheets distributed</b>	36	Brochures/ Flyers	PBC Systems Group; PBCSWA; FDEP; Town Clerk	FY 19/20 Log
	<b>Newspapers &amp; newsletters: Number of articles/notices published</b>	1	Newsletter/ Mailing List	Town Clerk	FY 19/20 Log
	<b>Newsletters: Number of newsletters distributed</b>	68	Property owner Mailing List/Certific ation Letter	Town Clerk	FY 19/20 Log
	<b>Public displays (e.g. kiosks, storyboards, etc.)</b>	1	Town Hall Display Rack	Town Clerk	



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	Documenta tion / Record	Entity Performing the Activity	Comments
<b>Part III.A.7.g</b>	<b>Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage</b>				
	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.				
	<b>Owner of the sanitary sewer system</b>	Individually owned septic systems			
	<b>Activity to reduce/eliminate SSOs and I&amp;I: (description)</b>	0	Florida Department of Health data base (OSTDS)	Palm Beach County (PBC) Health Department	Privately owned septic tanks systems
	<b>Activity to reduce/eliminate SSOs and I&amp;I: (description)</b>	0	OSTDS	PBC Health Department	
	<b>SSO incidents discovered</b>	0	OSTDS	PBC Health Department	None discovered; Privately owned septic tank systems
	<b>SSO incidents resolved</b>	0	OSTDS	PBC Health Department	
	<b>Inflow / infiltration incidents discovered</b>	0	OSTDS	PBC Health Department	None discovered
	<b>Inflow / infiltration incidents resolved</b>	0	OSTDS	PBC Health Department	
<b>Part III.A.7 Summary</b>	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.				
	<b>Strengths:</b> No illicit discharges or improper disposal reported during the permit year; Town Clerk and Town Planning Consultant have been trained; good public information being implemented.				
	<b>Limitations:</b> None identified				
	<b>SWMP Revisions implemented to address limitations:</b> None needed				
<b>Part III.A.8.a</b>	<b>Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections</b>				
	Report on the high-risk facilities inventory, including the type and total number of high risk facilities and the number of facilities newly added each year.				
	Report on the high-risk facilities inspection program, including the number of inspections conducted and the number and type of enforcement actions taken.				

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE								
A.	B.			C.		D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity			Number of Activities Performed		Documenta tion / Record	Entity Performing the Activity	Comments
	Type of Facility	Number of Facilities	Number of Inspections	Enforcement Actions				
	Operating municipal landfills	0	0	0	floridadep. gov/waste/ permitting	Florida Department of Environmental Protection (FDEP)	No landfills in Town	
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	0	0	0	enviro.epa. gov	Environmental Protection Agency (EPA)	No hazardous waste facilities	
	EPCRA Title III, Section 313 facilities (TRI)	0	0	0	enviro.epa. gov	EPA	No EPCRA facilities	
		0	0	0	Proactive/ Reactive inspection program	Town Clerk; Planning Consultant; Code Enforcement Officer	No high risk facilities	
<b>Part III.A.8.b</b>	<b>Industrial and High-Risk Runoff — Monitoring for High Risk Industries</b>							
	Report the number of high risk facilities sampled.							
		<b>High risk facilities sampled</b>		0	0	0		
<b>Part III.A.8 Summary</b>	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.							
	<b>Strengths:</b> No high risk facilities in Town							
	<b>Limitations:</b> N/A							
	<b>SWMP revisions implemented to address limitations:</b> N/A							
<b>Part III.A.9.a</b>	<b>Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices</b>							
	Report the number of permittee and private pre-construction site plans reviewed for stormwater, erosion, and sedimentation controls, and the number approved.							
	<b>PERMITTEE SITES: Construction site plans reviewed</b>	0			Construc- tion Site Plan Review Application	Town Clerk; Town Planning Consultant; Town Engineer; Building Official	No construction site plans reviewed during permit year	
	<b>PERMITTEE SITES: Construction site plans approved</b>	0			Construc- tion Site Plan Review Application	Town Clerk; Town Planning Consultant; Town Engineer; Building Official	No construction site plans approved during permit year	
	<b>PRIVATE SITES: Construction site plans reviewed</b>	1			Construc- tion Site	Town Clerk; Town Planning Consultant;	No new private sites	

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	Documenta tion / Record	Entity Performing the Activity	Comments	
	<b>PRIVATE SITES: Construction site plans approved</b>		Plan Review Application	Town Engineer; Building Official	construction site plans reviewed during permit year	
		0	Construc- tion Site Plan Review Application	Town Clerk; Town Planning Consultant; Town Engineer; Building Official	No new private sites construction site plans approved during permit year	
	Report the number of development permit applicants notified of the ERP and CGP, and the number of applicants who confirmed ERP and CGP coverage.					
	<b>Notified of ERP stormwater permit requirements</b>	0	Pre- construc- tion Application meeting	Town Clerk; Building Official	No new development or redevelopment; follow SOP procedures	
		<b>Confirmed ERP coverage</b>	0	Construc- tion Site Plan Review log/data base	Town Clerk; Building Official	
			<b>Notified of CGP stormwater permit requirements</b>	0	Pre- construc- tion Application meeting	Town Clerk; Building Official
		<b>Confirmed CGP coverage</b>		0	CGP permit	Town Clerk; Building Official
	<b>Part III.A.9.b</b>	<b>Construction Site Runoff — Inspection and Enforcement</b>				
		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.				
		<b>PERMITTEE SITES: Active construction sites</b>	0	Construc- tion Site Inspection Form	Building Official	No new permittee construction during permit year
<b>PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&amp;S and waste control BMPs</b>		0	Construc- tion Site	Building Official		

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	Documenta tion / Record	Entity Performing the Activity	Comments
	PERMITTEE SITES: Percentage of active construction sites inspected	0	Inspection Form 0	0	
	PRIVATE SITES: Active construction sites	0	0	0	No new private construction during permit year
	PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	0	Construc tion Site Inspection Form	Building Official	
	PRIVATE SITES: Percentage of active construction sites inspected	0	Construc tion Site Inspection Form	Building Official	
	Enforcement Action	0	0	0	None required
Part III.A.9.c	<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).				
		DEP Certification	Annual Training		
	Permittee construction site inspectors	1	1	Ground Control video	Palm Beach County (PBC) Steering Committee
	Permittee construction site plan reviewers		1	Ground Control video	PBC Steering Committee No new site plan reviewers training during permit year
	Permittee construction site operators		0	Ground Control video	PBC Steering Committee
Part III.A.9 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	<b>Strengths:</b> No new construction during permit year.				
	<b>Limitations:</b> N/A				
	<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)**

<b>A.</b>	<b>Permit Citation/ SWMP Element</b>	<b>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.</b>
	N/A	
<b>B.</b>	<b>Permit Citation/ SWMP Element</b>	<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)</b>
	N/A	

**SECTION IX. TMDL Status Report**

<b>A.</b>	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
	N/A			<input type="checkbox"/> / <input type="checkbox"/>					
				<input type="checkbox"/> / <input type="checkbox"/>					
<b>B.</b>	YEAR 3 and annually thereafter, provide a summary of the estimated load reductions that have occurred for the pollutant(s) of concern being discharged from the MS4 to the TMDL water body during the reporting period and cumulatively since the date the Supplemental SWMP was implemented.  Year 3: Submit a Monitoring data summary or BPCP (if applicable). Year 4: Submit a Supplemental SWMP (if applicable).								
	WBID Number	Pollutant of Concern	Monitoring Summary / BPCP Submitted	Supplemental SWMP Submitted	Projected load reductions OR Actual load reductions to date				
	N/A								
<b>C.</b>	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.								

**Town of Cloud Lake**  
**(NPDES Stormwater Permitting Program)**

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

**Prepared by JLH Associates**  
**November, 2020**

## **'Water Quality Monitoring Assessment Report'**

### Purpose

The purpose of the 'Water Quality Monitoring Assessment Report' is to provide information for the Town of Cloud Lake 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 Cloud Lake'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 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 Cloud Lake is in Group 3. The latest (Cycle 3) assessment occurred in 2017. Based on the FDEP verified assessment listing, Cloud Lake is in Water Body Identification (WBID 3245F) of the Lake Worth Lagoon. 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

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



Based on the location of outfall of the Cloud Lake MS4 (refer to attached location map), two (2) monitoring stations have been established. Station 37B is a Palm Beach County Environmental Resource Monitoring Site and Station C51S155 is a South Florida Water Management Monitoring Site. The following Table identifies these monitoring stations along with relevant information about the locations. More specifically, Station 37B is located upstream approximately eight (8) miles west of Cloud Lake at the intersection of SR 7 and Southern Boulevard (SR 80). Station C51S155 is located east of Dixie Highway at the discharge point into Lake Worth (Intracoastal Waterway) approximately two (2) miles south and east of the Town of Cloud Lake.

<b>Table 1</b>			
<b>MS4 Monitoring Stations</b>			
<b>Monitoring Station Number</b>	<b>Location Description</b>	<b>Northing/ Easting</b>	<b>Receiving Water Body</b>
37B	C-51 Basin	853637.29/ 916592.84	Lake Worth Lagoon
C51S155	C-51 Basin	841132.85/ 964349.43	Lake Worth Lagoon

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 Cloud Lake has evaluated nutrient monitoring results at the above two locations. The 10-year trend referenced in the Palm Beach County MS4 Cycle 4, Year 3, Joint Annual Report is used for evaluating the nutrient levels. Specifically, Total Nitrogen (TN), Total Phosphorus (TP) and Chlorophyll-A (a surrogate for nutrient enrichment) are analyzed and evaluated below. Data for monitoring stations in the C-51 watershed were examined.

At this time the State does not have any numeric nutrient criteria established for the C51 Canal (South Florida Region) for TN or TP. Chlorophyll-A has criteria of less than or equal to 20 ug/l.

Based on information provided in the PBC Cycle 4 Year 3 Joint Annual Report, water quality monitoring results for the last 10 years (2010-2019) are provided in Tables 5-8, 5-9 and 5-10, respectively for TN, TP and Chlorophyll-A. Review of the results indicate a general reduction in values from west (Station 37B) to east (Station C51S155). Reported Chlorophyll-A values are well below the standard of 20 ug/l, indicating that the C-51 Canal is not nutrient impaired and Cloud Lake, an eastern contributor, is not adversely affecting nutrient levels.

## **Water Quality Trends**

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 Stations C51S155 east of Town) and 37B (west of Town) to indicate trends from west to east as the eventual discharge point is approached.

Review of the annual geometric mean trends in Table 5-11 (p. 5 of 14) Water Quality Trends in the PBC Cycle 4, Year 4 Joint Annual Report indicates a 'significant' decreasing trend for TN at both monitoring station sites. Review of trends in Table 5-11 indicate a 'decreasing' trend for both TP and Chlorophyll-a at monitoring sites C51S155 and 37B. Typically, the nutrient concentrations are lower from west to east. Any numeric nutrient impairment is based on Chlorophyll-a values exceeding 20 ug/l. The data indicates that the Chlorophyll-a values are well below the State criteria.

## **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 Cloud Lake lies in the C-51 watershed/WIBD 3245F. All stormwater runoff from Cloud Lake MS4 system discharges into the combined Town of Glen Ridge and Town of Cloud Lake on-site lake detention system prior to discharging into the West Palm Beach Stub Canal. 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 C-51 Watershed (See Figures 3-8, pgs. 20-23) prepared by Mock-Roos for the co-permittees reference. All parameters indicate decreases between the Cycle 3, Year 3 and Cycle 4, Year 3 reporting period within the C-51 watershed.

Pollutant loadings for the Cloud Lake 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 18, p. 31 of the report) and 2018 (Table 19, p. 32 of the report) and, specifically, for the Cloud Lake MS4 below in Table 1.

Cloud Lake has in place stormwater management programs that reduces the nutrient loading into the C-51 watershed/WBID 3245F. These programs include maintenance of conveyance swales, detention lake, public education (brochures and flyers for public distribution, annual newsletter, 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 Cloud Lake-  
C51 Watershed

Parameter	<u>BODs</u>	<u>TSS</u>	<u>TP</u>	<u>CU</u>	<u>ZN</u>	<u>TN</u>
2013 Loads	880	1226	48	2	8	1234
2018 Loads	858	1165	47	1	8	1231
Other Reduction - Public Education (6% - rounded)	<u>51</u>	<u>70</u>	<u>3</u>	<u>0</u>	<u>0.5</u>	<u>74</u>
Total Amount	807	1095	44	1	7.5	1157
Percent (%) Reduction	<u>8.3%</u>	<u>10.7%</u>	<u>8.3%</u>	<u>50%</u>	<u>6.0%</u>	<u>6.2%</u>

Sources: Tables 18 (p. 31) and 19 (p. 32) of the 'Summary of Average Annual Pollutant Loading Model Activities' report (2019) prepared by Mock-Roos.

Reductions in pollutant loadings for the six (6) parameters in the Cloud Lake MS4 indicate significant reductions between 2013 and 2018.

### **Conclusions**

The Town of Cloud Lake stormwater management programs are effective in reducing nutrient loadings. This is supported by the water quality monitoring program (both FDEP and the MS4 group information) and pollutant loading information. At this time there is no need to develop further stormwater management programs.

*Attachment 2*

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

**Introduction/Comment**

**Ordinance 149** provided herein adopted the proposed revisions to the Town's Land Development Regulations (LDRs) prepared as part of the C4Y2, FY 17/18 Town of Cloud Lake Annual NPDES Report. All Sections and Sub-sections identified in the Recommendations cited in the C4Y2 LDR Report are specifically 'tracked' in Ordinance 149. There are no other LDR updates required as this time.

**ORDINANCE NO. 149 .**

**AN ORDINANCE OF THE TOWN COUNCIL OF THE TOWN OF CLOUD LAKE, FLORIDA AMENDING CHAPTER 28 ZONING AS FOLLOWS: BY AMENDING SECTION 28-5 DEFINITIONS TO ADD NEW DEFINITIONS FOR “IMPERVIOUS SURFACES” AND “PERVIOUS SURFACES”; BY AMENDING SECTION 28-9 DISTRICT REGULATIONS, SUBSECTION (1) R-1, LOW DENSITY RESIDENTIAL DISTRICT TO CREATE A NEW SUBSECTION “N” TO PROVIDE THAT NO GREATER THAN 50% OF A LOT SHALL CONTAIN IMPERVIOUS SURFACES; BY AMENDING SECTION 28-10 GENERAL PROVISIONS AND SUPPLEMENTARY DISTRICT REGULATIONS, SUBSECTION (10) LANDSCAPING AND LANDSCAPE PLANS TO CREATE A NEW SUBSECTION (D)(8) IN ORDER TO REGULATE THE GRADING AND PLACEMENT OF SOD AND OTHER MATERIALS WITHIN SWALE AREAS IN THE TOWN; BY AMENDING SECTION 28-12 SITE PLAN REVIEW; CONTENT AND PROCEDURE TO REVISE THE PROCEDURES APPLICABLE TO THE APPLICATION FOR AND REVIEW OF A PROPOSED SITE PLAN; PROVIDING A CONFLICTS CLAUSE, A SEVERABILITY CLAUSE AND AN EFFECTIVE DATE; AND FOR OTHER PURPOSES.**

WHEREAS, the Federal Clean Water Act (33 U.S.C. 1252, et seq.) as implemented by regulations of the U.S. Environmental Protection Agency adopted November 16, 1990 (40 CFR Part 122), require the adoption of local ordinance provisions relating to storm-water systems; and

WHEREAS, the Town of Cloud Lake is seeking to comply with all provisions of Federal and State law; and

WHEREAS, the vast majority of properties within the corporate limits of the Town of Cloud Lake are served by 2-lane local residential streets with conveyance swales; and

WHEREAS, there are no curb and gutters along the local residential streets within the Town; and

WHEREAS, it is the policy of the Town to require that individual property owners shall be responsible for maintaining their lots, including swale areas, up to the paved area of the streets they front upon; and

WHEREAS, the Town Council desires to amend the Town’s Zoning Code in order to regulate swale areas within the Town; and

WHEREAS, the Town Council desires to amend Section 28-12 of the Zoning Code in order to revise the application and review procedures for site plans submitted to the Town.

NOW, THEREFORE, BE IT ORDAINED BY THE TOWN COUNCIL OF THE TOWN OF CLOUD LAKE, FLORIDA, AS FOLLOWS:

SECTION 1. Chapter 28 ZONING, Section 28-5 *Definitions* of the Code of Ordinances of the Town of Cloud Lake are hereby amended to add the following definitions:

*Impervious surfaces* means land surfaces which do not allow the penetration, normal absorption or percolation of surface waters including, but not necessarily limited to, paved roads, sidewalks, driveways, parking lots and highly compacted areas such as shell or clay.

*Pervious surfaces* means areas of land or a lot which allow for the normal absorption and percolation of surface waters.

SECTION 2. Chapter 28 ZONING, Section 28-9. District regulations, Subsection (1) R-1, *Low density residential district* of the Code of Ordinances of the Town of Cloud Lake is hereby amended to create a new subsection n. which shall read as follows:

n. *Maximum impervious lot coverage.* No greater than 50% of a lot shall contain impervious areas.

SECTION 3. Chapter 28 ZONING, Section 28-10 *General provisions and supplementary district regulations*, subsection (10) *Landscaping and landscape plans*, subsection *d. Landscape requirements* of the Code of Ordinances of the Town of Cloud Lake, Florida is hereby amended to add a new subsection 8 which shall read as follows:

8. *Regulations for conveyance swale areas.*

- a) The Town encourages the installation of sod within the swale areas of Town right-of-way and accordingly no permit shall be required for the installation of sod within such areas.
- b) Except as provided in Subsection 8(a), no person shall place or plant any vegetative landscape material within the Town right-of-way (swale areas abutting public streets) without first obtaining a permit from the Town. In determining whether a permit for vegetative landscape material should be issued, the Town Clerk, or appropriate designee of the Town, shall consider whether the proposed installation:

(1) interferes with or impairs the Town storm-water drainage system; and

(2) creates a safety hazard to vehicular or pedestrian traffic; and

(3) otherwise impairs the health, safety or welfare of the citizens and visitors to Town.

c) No person shall grade or re-grade any lands within the Town right-of-way without first obtaining a permit from the Town Clerk, or appropriate designee of the Town.

d) It shall be unlawful for any individual to place or have placed any impervious material including, but not limited to, asphalt, concrete, landscape stone, brick pavers or other similar materials within the Town right-of-way. This subsection shall not preclude the installation of paved driveways extending from a public roadway to the privately-owned property; provided, the width of any such entry driveway(s) shall not exceed a total of twenty-four (24) feet for any lot or combination of lots improved with a residential structure.

SECTION 4. CHAPTER 28 ZONING, Section 28-12. *Site Plan review; content and procedure* of the Code of Ordinances of the Town of Cloud Lake, Florida is hereby amended to read as follows:

Sec. 28-12. - Site plan review; content and procedure.

(a) *Requirements.* By the terms of this chapter, all permitted uses in the business professional zoning districts and all special exception uses in any zoning district as approved by the Ttown Council shall:

- (1) Require site plan review;
- (2) Conform to all minimum requirements of this section and any other applicable laws and regulations;
- (3) Be compatible to the intent of the zoneing district wherein it is proposed to be located and compatible with adjacent land uses.

No building permit shall be issued for the purpose of erecting, or constructing any structure or building, or for structural alterations in any existing structure or building, until after the Ttown Council shall approve the site plan in accordance with this section.

~~(b) *Preapplication meeting.* A preapplication meeting called by the building official between appropriate town officials, the landowner or representative, and other entity representatives deemed appropriate, may be required, prior to application submittal for site plan review to ensure proper coordination, intention and understanding in the development of land and buildings and to consider compliance with applicable town regulations.~~

~~(be) *Application content.* Applications for site plan review shall be filed with the building official Town Clerk and shall include those of the following information items that are applicable:~~

- (1) Statements of unity of title of the subject property.
- (2) Statement describing in detail the character and intended use of the property.
- (3) General location map, showing relation of the site for which site plan approval is sought to major streets, schools, existing utilities, shopping areas, important physical features in and adjoining the project, and the like.
- (4) Three copies of a site plan containing the title of the project and the names of the architect, engineer, project planner and/or developer, date, and north arrow, and based on an exact survey of the property drawn to scale of sufficient size to show:
  - a. Boundaries of the project; any existing streets, buildings, watercourses, easements, and section lines.
  - b. Exact location, use, height and bulk of all buildings and structures.
  - c. Access and traffic flow and volume, and how vehicular traffic will be separated from pedestrian and other types of traffic. Any development fronting or abutting Southern Boulevard shall require review by the state department of transportation or other appropriate governmental entity.
  - d. Off-street parking and off-street loading areas.
  - e. Recreation facilities locations.
  - f. All screens and buffers.
  - g. Refuse collection areas.
  - h. Access to utilities and points of utilities hookups and location of all water hydrants close enough for fire protection.
  - i. Tabulations of total gross acreage in the project and the percentages thereof proposed to be devoted to the various uses, ground coverage by structures and impervious surface coverage.
  - j. Tabulations showing the derivation of numbers of off-street parking and off-street loading spaces and total project density in dwelling units per acre, if applicable.
- (5) If common facilities (such as recreation areas or structures, common open space, etc.) are to be provided for the development, statements as to how such common facilities are to be provided and permanently maintained. Such statements may take the form of proposed deed restrictions, deeds of trust, surety arrangements, or other legal instruments providing adequate guarantee to the town that such common facilities will not become a future liability for the Ttown.
- (6) Preliminary storm drainage and sanitary sewage plans or statements.



- (7) Architectural elevations for buildings in the development; exact number of units, sizes and types, together with typical floor plans of each type.
- (8) Landscaping plan, including types, sizes, and locations of vegetation and decorative shrubbery, and showing provisions for irrigation systems. (See section 28-10(10), pertaining to landscaping and landscape plans.)
- (9) Plans for sign(s), if any. (See section 28-10(9), pertaining to signs.)
- (10) Plans for recreation facilities, if any, including buildings and structures for such use.
- (11) Plans for the extraction of fill and mineral resources and alterations or modifications to the slope, elevation, drainage pattern, natural vegetation and accessibility of the development.
- (12) Such additional data, maps, plans or statements as may be required by the Ttown for the particular use or activity involved, including impacts on affected community facilities and services created by the development.
- (13) Such additional data as the applicant may believe is pertinent to the site plan.
- (14) If development is to occur in phases those phases should be clearly delineated on the site plan and identified in the plans and requirements appurtenant to the site plan, and each development phase shall be subject to site plan review by the Ttown.
- (15) The substance of covenants, grants of easements or other restrictions proposed to be imposed upon the use of the land, buildings and structures, including proposed easement or grants for public utilities, if applicable.
- (16) A statement from the landowner that the submitted site plan is consistent with the goals, objectives, and all other provisions of the Ttown comprehensive development plan and further, that the projected use is specifically authorized by development ordinances and regulations. Said statement is to include, but is not limited to, specific references to those sections of the comprehensive plan relating to the proposed development.
- (17) A statement from the applicant or landowner that all pertinent permits are concurrently being sought from the applicable county, state, and federal agencies. Said permits shall be secured prior to the issuance of a building permit for any development on property included within the site plan.

Items listed above in the application content which require the preparation of architectural or engineering drawings shall be prepared and certified by an engineer or architect registered in the Sstate of Florida. Site plans and plans

and requirements appurtenant to site plans shall be prepared and certified by a registered surveyor, engineer, architect or landscape architect, or a practicing land planner, as may be appropriate to the particular item. ~~Any item submitted as part of the application content which requires modification at any time during the site plan review process by the town may be so modified without resubmittal of an entirely new application; provided, however, that said modification, if approved by the building official and town council, is determined to be consistent with the terms and intent of this section and the zoning district in which the site is located.~~

(~~dc~~) *Application process.* Applications for site plan review shall adhere to the following procedures and requirements.

(1) *Review by the ~~building official~~ Town.* ~~The building official~~ Town's ~~planning and zoning consultant, Town Attorney and such other professionals as deemed appropriate,~~ shall review the submitted site plan, and plans and requirements appurtenant to the site plan, to ensure compliance with the applicable site regulations, use regulations, parking regulations, and all other technical requirements. If the application is deemed to be at variance with such regulations and requirements ~~by the building official,~~ and/or requires the approval of a special exception, further actions on the site plan review shall be stayed until such variance or special exception is resolved. If the application is deemed ~~by the building official~~ to be in compliance with such regulations and requirements, the application and all exhibits, ~~together with the report of the building official concerning such compliance~~ shall be submitted ~~by the building official~~ to the Town Council for consideration, ~~within 20 working days from the date of the application.~~

(2) *Review by Town Council.* ~~Within 60 days of receipt of the application from the building official~~ ~~The~~ Town Council shall review, consider and act upon said application. Before any site plan and plans and requirements appurtenant to the site plan shall be approved, approved with changes, or denied, the Town Council shall make a finding that the public interest, is or is not served and certify that the specific zoning requirements governing the individual use have or have not been met and that, further, satisfactory provision and arrangements or have not been made concerning the following review standards, where applicable:

a. Sufficiency of statements on ownership and control of the subject property and sufficiency of conditions of ownership or control, use and permanent maintenance of common open space, common facilities or common lands to insure preservation of such lands and facilities for their intended purpose.

- b. Ingress and egress to the property and the proposed structures thereon, with particular reference to automotive and pedestrian safety, separation of automotive traffic, traffic flow volume and control, provision of services and servicing of utilities and refuse collection, and access in case of fire, catastrophe, or emergency.
- c. Location and relationship of off-street parking and off-street loading facilities to thoroughfares and internal traffic patterns within the property, with particular reference to automotive and pedestrian safety, traffic flow volume and control, access in case of fire or catastrophe, and screening and landscaping.
- d. Proposed screens and buffers to preserve internal and external harmony and compatibility with uses inside and outside the property boundaries.
- e. Manner of drainage and runoff control on the property, with particular reference to the effect of provisions for drainage on adjacent and nearby properties and the consequences of such drainage on overall town capacities.
- f. Utilities with reference to hook-in locations, and availability and capacity for the uses projected.
- g. Recreation facilities and open spaces, if any, with attention to the size, location, and development of the areas as to adequacy, effect on privacy of adjacent and nearby properties and uses within the property, and relationship to communitywide open spaces and recreation facilities.
- h. Layout of buildings, structures and parking which effectively utilize the natural features, topography, drainage patterns and vegetation of the site.
- i. Irrigation systems have been provided.
- j. Consult the conservation/natural environment section of the Ttown comprehensive development plan prior to commitment of resources for potential development to ensure appropriate environmental factors have been considered and adhered to.
- k. The proposed site plan and development will not have an adverse effect upon adjacent properties.
- l. The proposed site plan and development will not place an undue burden on municipal or county services.
- m. The proposed site plan and development are consistent with the goals, objectives, and other provisions of the Ttown comprehensive development plan and development ordinances and regulations.

- n. The proposed site plan and development meet the minimum floodplain building and development regulations.
- o. Such other standards as may be imposed by these zoning regulations for the particular use or activity involved, or any other reasonable conditions or safeguards deemed appropriate by the Ttown Council.

(~~e~~) *Action by Ttown Council.* After review, the Ttown Council shall grant approval, grant approval with conditions or deny the application for site plan approval, ~~and direct the building official to approve or withhold approval of the building permit.~~

(~~e~~) *Time.* A building permit must be applied for within one year of the date of the site plan approval or the approval shall be nullified. In the case of a site plan which provides for development in phases over a period of years, the Ttown Council shall set forth time within which application for building permit on each part shall be filed. In the event that building permits are not filed within the required time, the approval shall terminate and be deemed null and void unless such time period is extended by the Ttown Council upon written request of the landowner.

(~~e~~) *Application fee.* To cover all administrative costs incurred by the Ttown in the site plan review process, the applicant shall pay a fee as currently established or as hereafter adopted by resolution of the Ttown Council from time to time at the time of the site plan review application submittal, plus additional costs for processing.

SECTION 5. Specific authority is hereby granted to codify and incorporate this ordinance into the existing Code of Ordinances of the Town of Cloud Lake, Florida.

SECTION 6. That all ordinances or parts or ordinances, in conflict herewith, be and the same are hereby repealed to the extent of such conflict.

SECTION 7. If any clause, section or other part of this Ordinance shall be held by any court of competent jurisdiction to be unconstitutional or invalid, such unconstitutional or invalid part shall be considered as eliminated and in no way affecting the validity of the other provisions of this Ordinance.

SECTION 8. This Ordinance shall become effective upon its passage and adoption.

FIRST READING this 14<sup>th</sup> day of February, 2019.

SECOND READING and FINAL PASSAGE this 14<sup>th</sup> day of March, 2019.

TOWN OF CLOUD LAKE, FLORIDA

William Patrick Slatery - absent  
MAYOR

Marion Chateau Hagg  
COUNCIL MEMBER

Russell [unclear]  
COUNCIL MEMBER

Cory [unclear]  
COUNCIL MEMBER

Shelley Hook  
COUNCIL MEMBER

ATTEST:

Norothy C. Gravelin  
TOWN CLERK

