



# 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 Lantana		
<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 checked="" type="checkbox"/> Year 3 <input type="checkbox"/> Year 4 <input type="checkbox"/> Year 5 <input type="checkbox"/> Other, specify Year:		
<b>E.</b>	Reporting Time Period (month/year): October / 2018 through September / 2019		
<b>F.</b>	Name of the Responsible Authority: Deborah Manzo		
	Title: Town Manager		
	Mailing Address: 500 Greynolds Circle		
	City: Lantana	Zip Code: 33462	County: Palm Beach
	Telephone Number: 561-540-5000		Fax Number: 561-540-5759
<b>G.</b>	E-mail Address: <a href="mailto:dmanzo@lantana.org">dmanzo@lantana.org</a>		
	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Jerry Darr		
	Title: Assistant Utilities Director		
	Department: Public Utilities		
	Mailing Address: 510 W. Pine Street		
	City: Lantana	Zip Code: 33462	County: Palm Beach
Telephone Number: 561-540-5758		Fax Number: 561-540-5759	
E-mail Address: <a href="mailto:jdarr@lantana.org">jdarr@lantana.org</a>			

**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): (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): (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: <i>The Group Monitoring Plan was approved on September 8, 2016 (with issuance of the Cycle 4 permit)</i> Status: <i>The monitoring program is carried out jointly by PBC permittees. See the PBC Joint Annual Report. The information relevant to the permittee's outfalls is addressed within the Annual Assessment Report documents provided in Appendix A.</i></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><i>See attached Appendix A: Annual Assessment Report.</i></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><i>See attached Appendix A: Annual Assessment Report.</i></p>

**SECTION IV. FISCAL ANALYSIS**

<b>A.</b>	Total expenditures for the NPDES stormwater management program for the current reporting year: \$13,848.00
<b>B.</b>	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$164,605.00
<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> <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
<input checked="" type="checkbox"/>	<input 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	<b>Appendix B –</b> Town is submitting a revised MS4 contributing area for BMP A based on the limits of the Costco site's Environmental Resource Permit.
<input checked="" type="checkbox"/>	<input 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	<b>Appendix C</b>
<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	<b>Refer to Joint Annual Report &amp; attached Appendix A</b>
<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 checked="" type="checkbox"/>	<input 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	<b>Refer to Joint Annual Report &amp; attached Appendix A</b>
<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 type="checkbox"/>	<input checked="" 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	
<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	
<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): Deborah Manzo

Title: Town Manager

Signature:  Date: 02/13/2020

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
<b>Part III.A.1</b>	<b>Structural Controls and Stormwater Collection Systems Operation</b>							
	<p>Report the current known inventory.</p> <p>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.</p> <p><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></p>							
	<b>Type of Structure</b>	<b>Number of Structures</b>	<b>Number of Inspections</b>	<b>Percent Inspected</b>	<b>Number of Maintenance Activities</b>	<b>Percent Maintained</b>		
	<b>Dry retention systems</b>	5	12 (BMP C & BMP E); 1 (BMP A); 2 (BMP D)	80%	9	80%	Inspection Form for Structural Controls Retention / Detention Pond; Drainage Inspection & Maintenance Report Form	Town Staff  BMP A, C, D, E, & F per Town's MS4 Drainage System Map (see Appendix B). Town is submitting a revised MS4 contributing area for BMP A based on the limits of the Costco site's Environmental Resource Permit.
	<b>Grass treatment swales (linear feet)</b>	12,980	52	100%	0	100%	Town Contract with Republic Services, Inc.	Republic Services, Inc.  Town hired a private contractor to perform this work.

**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	
	Pollution control boxes	2	5	100%	0	100%	Drainage Inspection & Maintenance Report Form	Town Staff	Town provided inspection reports for 4 inspections at PCD #2 and 1 inspection at PCD #1 during the reporting period. Town completed PCB inspections quarterly as required by DEP for PCD #1 but did not fill out inspection forms.
	Stormwater pump stations	2	5	100%	0	100%	Drainage Inspection & Maintenance Report Form	Town Staff	Town provided inspection reports for 4 inspections at Pump Station #2 and 1 inspection at Pump Station #1 during the reporting period. Town completed stormwater pump station inspections semi-annually as required by DEP for pump station #1 but did not fill out inspection forms.
	Major outfalls	0	0	0%	0	0%	Drainage Inspection & Maintenance Report Form	Town Staff	No major outfalls

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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	
	<b>Weirs or other control structures</b>	1	2	100%	1	100%	Drainage Inspection & Maintenance Report Form	Town Staff	Maintenance activity consisted of installing new grate on inlet structure.
	<b>MS4 pipes / culverts (linear feet)</b>	12,229	124	30%	19	30%	Drainage Inspection & Maintenance Report Form	Town Staff	
	<b>Inlets / catch basins / grates</b>	128	124	80%	19	55%	Drainage Inspection & Maintenance Report Form	Town Staff	
	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 Appendix C		

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.1 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	<b>Strengths: Town completes inspection of 100% of their MS4 inlets and minimum 30% inspections of drainage pipe annually. The dry detention BMPs are regularly inspected and mowed which includes trash pick-up.</b>				
	<b>Limitations: Town contracted trash pick-up to Republic Services, Inc. this reporting period. This private contractor did not provide any reporting documentation for trash pick-up. The Town completes inspections of the PCD's and stormwater pump stations per DEP requirements, but proper documentation for all required inspections was not provided this reporting period.</b>				
	<b>SWMP revisions implemented to address limitations: Town will ensure that all required inspections of the stormwater pump stations and PCD's are completed and properly documented for future reporting periods.</b>				
Part III.A.2	<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.				
	Number of significant development projects reviewed	2	2018 / 2019 Drainage Permit Applications Log	Town Engineer	9 applications were reviewed during the reporting period and 7 were less than 1 acre
	Number of significant development projects approved	1	Approval Letter	Town Engineer	224 N 3 <sup>rd</sup> Street was approved during this reporting period. WTC Parcel was still under review at the end of this reporting period.
	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"/>	N/A	N/A	
Year 4 ONLY: Attach the follow-up report on plan implementation		<input type="checkbox"/>	N/A	N/A	
Part III.A.2	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				

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<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>Documentation / Record</b>	<b>Entity Performing the Activity</b>	<b>Comments</b>
<b>Summary</b>	<b>Strengths: Any proposed significant redevelopment projects must submit for review and approval to the Town's Plan Review Committee and then to the Town Council.</b> <b>Limitations: None.</b> <b>SWMP revisions implemented to address limitations: N/A</b>				
<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. <i>Note: If the permittee does not contract activities, delete CONTRACTOR activities.</i>				
	<b>PERMITTEE Litter Control: Frequency of litter collection</b>	0	N/A	N/A	Town hired a private contractor to perform this work.
	<b>PERMITTEE Litter Control: Estimated amount of area maintained (lf)</b>	0	N/A	N/A	Town hired a private contractor to perform this work.
	<b>PERMITTEE Litter Control: Estimated amount of litter collected (cy)</b>	0	N/A	N/A	Town hired a private contractor to perform this work.
	<b>CONTRACTOR Litter Control: Frequency of litter collection</b>	52, weekly	Town's Contract with Republic Services, Inc.	Republic Services, Inc.	
	<b>CONTRACTOR Litter Control: Estimated amount of area maintained (sq. miles)</b>	2.3	Town's Contract with Republic Services, Inc.	Republic Services, Inc.	
	<b>CONTRACTOR Litter Control: Estimated amount of litter collected (gallons)</b>	68,224	Town's Contract with Republic Services, Inc.	Republic Services, Inc.	Republic Services, Inc. picks up trash from 41 locations around the Town. Each location has a 32-gallon receptacle collected once per week.



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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
	<p>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".</p>				
	<p><b>Trash Pick-up Events: Total miles cleaned</b></p>	<p>1.8</p>	<p>Clean-up Event Report from Town Parks &amp; Recreation Supervisor</p>	<p>Clerk Comptroller of PBC; Keep PBC Beautiful Organization; Town of Lantana</p>	<p>Town participated in Lantana Clean-Up Events on 2/23/19 and 6/22/19; Town participated in Great American Clean-Up Event on 4/27/19; Town participated in International Coastal Clean-Up Event on 9/21/19. All events were held at Lantana Beach from 8:30am to 10:30am.</p>
	<p><b>Trash Pick-up Events: Estimated amount of litter collected (pounds)</b></p>	<p>340</p>	<p>Clean-up Event Report from Town Parks &amp; Recreation Supervisor</p>	<p>Clerk Comptroller of PBC; Keep PBC Beautiful Organization; Town of Lantana</p>	<p>56 lbs. of litter was collected at the Lantana Clean-Up Event on 2/23/19; 130 lbs. of litter was collected at the Great American Clean-Up Event on 4/27/19; 90 lbs. of litter was collected at the Lantana Clean-Up Event on 6/22/19; and 64 lbs. of litter as collected at the International Coastal Clean-Up Event on 9/21/19.</p>
	<p><b>Adopt-A-Road: Total miles cleaned</b></p>	<p>0</p>			<p>Did not participate.</p>
	<p><b>Adopt-A-Road: Estimated amount of litter collected (cy)</b></p>	<p>0</p>			

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A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Report 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.				
	<b>Frequency of street sweeping</b>	0			Town does not perform street sweeping. The street sweeping program was suspended due to lack of funding. The Town does not own any roadways that have curb and gutter.
	<b>Total miles swept</b>	0			
	<b>Estimated quantity of sweeping material collected (cy / tons)</b>	0			
	<b>Total phosphorous loadings removed (pounds)</b>	0			
	<b>Total nitrogen loadings removed (pounds)</b>	0			
	Report the equipment yards and maintenances shops that support road maintenance activities, and the number of inspections conducted for each facility.				
	<b>Name of Facility</b>	<b>Number of Inspections</b>			
	<b>Name of Facility #1: Municipal Maintenance Yard</b>	12 (general site, painting, and above ground storage tank); 5 (vehicle maintenance)	Municipal Maintenance Yard Inspection Checklist	Public Works / WTP Staff	3 inspectors monitored the monthly general site, painting, vehicle maintenance and above ground storage tank respectively. Completed inspection reports were provided for 12 months for the general site, painting and above ground storage. Completed inspection reports were provided for 5 months for the vehicle maintenance building.

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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.3 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.					
	<b>Strengths: A majority of the Town's MS4 drains to roadside swales or dry detention areas which provide treatment of runoff.</b>					
	<b>Limitations: None.</b>					
	<b>SWMP revisions implemented to address limitations: N/A</b>					
Part III.A.4	<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>		0			
	<b>Flood control projects completed that did <u>not</u> include stormwater treatment</b>		0			
	<b>Stormwater retrofit projects planned/under construction</b>		0			None planned.
	<b>Stormwater retrofit projects completed</b>		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				
Part III.A.4 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.					
	<b>Strengths: Due to the fact that the Town is small in size and there are not many larger land parcels, there are few flood control projects. The Town therefore can focus on the flood control projects that are planned or underway.</b>					
	<b>Limitations: None.</b>					
	<b>SWMP revisions implemented to address limitations: N/A</b>					

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<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>Documentation / Record</b>	<b>Entity Performing the Activity</b>	<b>Comments</b>
<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				No municipal waste treatment, storage and disposal 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: The Town annexed the Palm Beach County Solid Waste Authority Central Transfer Station property, which has a separate NPDES permit.</b>				
	<b>Limitations: None.</b>				
	<b>SWMP revisions implemented to address limitations: N/A</b>				
<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			Town utilizes private contractor for pesticide / herbicide application
	<b>CONTRACTORS: FDACS commercial applicators of pesticides/ herbicides</b>	3	FDACS ID card	Jhonny Arango, Robert Alcantara, Kenneth Shepard	All 3 contractors have completed Green Industry BMP Training during previous reporting periods.
	<b>PERSONNEL: Green Industry BMP Program training completed</b>	0	N/A		
	<b>CONTRACTORS: FDACS certified / licensed applicators of fertilizer</b>	3	FDACS ID card	Robinson E. Cruz-Lucero, Frank Robert Patterson, Jhonny Arango	2 of the 3 contractors (Cruz-Lucero, Arango) have completed Green Industry BMP Training during previous reporting periods.
	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.				

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<b>Permit Citation/ SWMP Element</b>	<b>Permit Requirement/Quantifiable SWMP Activity</b>	<b>Number of Activities Performed</b>	<b>Documentation / Record</b>	<b>Entity Performing the Activity</b>	<b>Comments</b>
	<b>Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance</b>	N/A	N/A		
	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>	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>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: The Town contracts for pesticide treatment at Town Hall, the parks, and the recreation center. The Town also contracts for herbicide application at Town facilities.</b>				
	<b>Limitations: None.</b>				
	<b>SWMP revisions implemented to address limitations: N/A</b>				
<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>	N/A	N/A		
<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>	2 (Entire MS4)	Supervisor's Daily Spill Inspection Report; Drainage Inspection & Maintenance Report Form	Public Works & WTP personnel	Maintenance Yard inspected monthly. Streets, Grounds, Facility Maintenance, and Utility Building inspected each weekday. Vehicle Maintenance inspected each weekday but reports only provided for only 5 months of the reporting period.

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<b>Permit Citation/ SWMP Element</b>	<b>Permit Requirement/Quantifiable SWMP Activity</b>	<b>Number of Activities Performed</b>	<b>Documentation / Record</b>	<b>Entity Performing the Activity</b>	<b>Comments</b>
	<b>Illicit discharges found during a proactive inspection</b>	0	Proactive Illicit Discharge / Illegal Connection Inspection Form	Public Works & WTP personnel	None found during this reporting period.
	<b>NOV/WL/citation/fines issued for illicit discharges found during proactive inspection</b>	0			No NOV/fines issued for illicit discharges during this reporting period.
	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	Telephone Log	Jerry Darr	
	<b>Reactive investigations of reports of suspected illicit discharges etc.</b>	0	N/A	N/A	
	<b>Illicit discharges etc. found during reactive investigation</b>	0	N/A	N/A	
	<b>NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation</b>	0	N/A	N/A	
	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>	6	FDOT NPDES Spill Prevention, Containment and Response Training Certificates of Completion	Public Works & WTP personnel	Town utilized FDOT's online training and the following staff completed the training: S. Ralston; A. Benjamin; D. Blom; F. Furman; W. Wills; C. Hinzey
	<b>Contractors trained</b>	0	N/A		Utilize trained in-house staff or Palm Beach County Fire / Rescue
<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	Refer to Palm Beach County's Annual Report	Palm Beach County Fire / Rescue	

<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>Documentation / Record</b>	<b>Entity Performing the Activity</b>	<b>Comments</b>
	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>	6	FDOT NPDES Spill Prevention, Containment and Response Training Certificates of Completion	Public Works & WTP personnel	Town utilized FDOT's online training and the following staff completed the training: S. Ralston; A. Benjamin; D. Blom; F. Furman; W. Wills; C. Hinzey
	<b>Contractors trained</b>	0	N/A		Utilize trained in- house staff or Palm Beach County Fire / Rescue
<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>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.			

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
<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>	Town of Lantana			
	<b>Activity to reduce/eliminate SSOs and I&amp;I: (description)</b>	0	N/A	N/A	No sewer lining was completed during this reporting period.
	<b>SSO incidents discovered</b>	2	PBC Health Dept. Wastewater Spillage Report	Town	10/18/18: Sewer back-up/overflow at W. Oyster Lane due to vehicle damage to sewer clean-out; 8/4/19: Sewer back-up/overflow at Hypoluxo and Broadway due to blockage between MH #243 & MH #247
	<b>SSO incidents resolved</b>	2	PBC Health Dept. Wastewater Spillage Report	Town	Both incidents were resolved on day of occurrence
	<b>Inflow / infiltration incidents discovered</b>	0	N/A		
	<b>Inflow / infiltration incidents resolved</b>	0	N/A		
<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: The Town proactively inspects inlets, BMPs, and outfalls and patrols roadways within the Town on a regular basis. The zoning for commercial and industrial uses is concentrated in a few locations, and the Town field staff are alert to look for illicit discharges. The Town has an established telephone hotline and information on its website for resident reporting of illicit connections.</b>				
	<b>Limitations: None.</b>				
	<b>SWMP Revisions implemented to address limitations: N/A</b>				
<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.				



SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE								
A.	B.				C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity				Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Report 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	N/A	N/A	No operating municipal landfill facilities in Town	
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	0	0	0	N/A	Palm Beach County	PBCo SWA Central Transfer Facility property annexed into Town boundary but does not discharge into Town's MS4	
	EPCRA Title III, Section 313 facilities (TRI)	0	0	0	N/A	N/A	No Section 313 facilities identified in Town	
	Facilities determined as high risk by the permittee	0	0	0	N/A	Utilities & Public Works Staff	None found	
<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.							
	High risk facilities sampled		0		RCRAInfo, TRI database, CERCLIS database	N/A	PBCo SWA Central Transfer Facility property annexed into Town boundary but does not discharge into Town's MS4	

<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>Documentation / Record</b>	<b>Entity Performing the Activity</b>	<b>Comments</b>
<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: The only High Risk Facility is the Central Transfer Station which does not connect to the Town's MS4. Confirmation of any additional High Risk Facilities being added to the MS4 is confirmed annually during the preparation of the annual report.</b>				
	<b>Limitations: None.</b>				
	<b>SWMP revisions implemented to address limitations: N/A</b>				
<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	N/A	Town Staff	No permittee projects during this reporting period
	<b>PERMITTEE SITES: Construction site plans approved</b>	0	N/A	Town Staff	No permittee projects during this reporting period
	<b>PRIVATE SITES: Construction site plans reviewed</b>	9	2018 / 2019 Drainage Permit Applications Log	Town Building Dept., PRC and Town Engineer	
	<b>PRIVATE SITES: Construction site plans approved</b>	8	2018 / 2019 Drainage Permit Applications Log	Town Building Dept., PRC and Town Engineer	WTC Parcel was still under review at the end of this reporting period.
	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>	1	2018 / 2019 Drainage Permit Applications Log	Town Engineer	224 N 3 <sup>rd</sup> Street was approved during this reporting period. WTC Parcel was still under review at the end of this reporting period.

<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>Documentation / Record</b>	<b>Entity Performing the Activity</b>	<b>Comments</b>
	<b>Confirmed ERP coverage</b>	1	2018 / 2019 Drainage Permit Applications Log	Town Engineer	224 N 3 <sup>rd</sup> Street was approved during this reporting period. WTC Parcel was still under review at the end of this reporting period.
	<b>Notified of CGP stormwater permit requirements</b>	1	2018 / 2019 Drainage Permit Applications Log	Town Engineer	224 N 3 <sup>rd</sup> Street was approved during this reporting period. WTC Parcel was still under review at the end of this reporting period.
	<b>Confirmed CGP coverage</b>	1	2018 / 2019 Drainage Permit Applications Log	Town Engineer	224 N 3 <sup>rd</sup> Street was approved during this reporting period. WTC Parcel was still under review at the end of this reporting period.
<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.				

**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
	<p align="center"><b>PERMITTEE SITES: Active construction sites</b></p>	0	N/A	N/A	No permittee active construction sites during reporting period
	<p align="center"><b>PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&amp;S and waste control BMPs</b></p>	0	N/A	N/A	No permittee active construction sites during reporting period
	<p align="center"><b>PERMITTEE SITES: Percentage of active construction sites inspected</b></p>	0	N/A	N/A	No permittee active construction sites during reporting period
	<p align="center"><b>PRIVATE SITES: Active construction sites</b></p>	1	Approved during Year 2 of the Reporting Cycle (2017 / 2018 Drainage Permit Application Log)	Town Staff	Water Tower Commons Residential was under construction during both Year 2 and Year 3 of the reporting periods. 224 N 3 <sup>rd</sup> Street was approved during this reporting, but was not under construction.
	<p align="center"><b>PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&amp;S and waste control BMPs</b></p>	2	Construction Site Inspection Form	Town Staff	Town completed the 2 required inspections (pre- and during construction inspections) of the Water Tower Commons

<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>Documentation / Record</b>	<b>Entity Performing the Activity</b>	<b>Comments</b>
	<b>PRIVATE SITES: Percentage of active construction sites inspected Enforcement Action</b>	100%	N/A		Residential site. Construction of the site was still in progress at the end of this reporting period.
		0	N/A	N/A	
<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>		
	<b>Permittee construction site inspectors</b>	5	6	DEP Stormwater Erosion and Sedimentation Control Inspector Training Program Certificate; FDOT NPDES Spill Prevention, Containment and Response Training Certificates of Completion	Public Works & WTP personnel  D. Blom, A. Benjamin, S. Ralston, F. Furman, and C. Hinzey all completed the initial DEP Certification Training and the refresher training. 1 other public works and utilities staff member attended the refresher training.
	<b>Permittee construction site plan reviewers</b>		1	DEP Stormwater Erosion and Sedimentation Control Inspector Training (Baxter & Woodman – M. Travis)	Town Engineer  February 2, 2016
	<b>Permittee construction site operators</b>		0	N/A	N/A

<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>Documentation / Record</b>	<b>Entity Performing the Activity</b>	<b>Comments</b>
<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: The site inspectors are certified / trained and regularly inspect all constructions site. Inspectors notify appropriate Town Staff of identified Contractor BMP deficiencies and communicate / follow-up on notified deficiencies with Contractor via phone or email until deficiencies are addressed. Town staff document pre-, during, and post-construction inspections of private construction sites that meeting ERP and CGP requirements.</b>				
	<b>Limitations: N/A</b>				
	<b>SWMP revisions implemented to address limitations: None.</b>				

<b>SECTION VIII. CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable in Year 4)</b>		
<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"/>		1		(Year 3 AR)	(Year 4 AR; N/A) if BPCP)
				<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		(Year 3 AR)	(Year 4 AR; N/A if BPCP)					
<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):  <i>No discharge to a TMDL WBID at the time of permit issuance</i>								

*Town of Lantana - NPDES Permit No. FLS000018 - Cycle 4, Year 3*

**Appendix A – Section III. Part V.A. & Part V.B.**  
**Assessment Program Summary**



*Town of Lantana*  
MS4 Permit No. FLS000018-004  
Cycle 4, Year 3  
Section III. Part V.A. & Part V.B.  
Assessment Program Summary

### Background

The Town of Lantana’s Assessment Program was approved by FDEP in 2018. The Group Monitoring Report is included in the Cycle 4 Joint Annual Report. The Town of Lantana’s Assessment Program consists of the following components:

- Water Quality Monitoring
- Pollutant Loading Estimate
- Evaluation and Response

A summary of each assessment program component as it pertains to the Town of Lantana during the Year 3 reporting cycle is included below.

### Part A – Water Quality Monitoring Summary

Currently, the joint NPDES program in Palm Beach County collects ambient water quality data at several monitoring sites based on the location of major outfalls and TMDL’s within the County. For water quality monitoring, the Town of Lantana is using the ambient water quality data provided by the joint program from site LWL-13.

Palm Beach County Environmental Resource Management (ERM) performed the sampling at monitoring station LWL-13 according to the DEP’s Standard Operating Procedures. The parameters were sampled in accordance with the sampling frequency as outlined in the Assessment Program. The parameters sampled and sampling frequency is summarized in **Table 1** below. The Town’s Assessment Program will be evaluating total phosphorous as the Town’s MS4 and monitoring station LWL-13 are located just south of the central segment of the Lake Worth Lagoon, which is currently verified impaired for nutrients (total phosphorous).

**Table 1**  
**Parameters and Sampling**  
**Table**

<b>Monitoring Station #</b>	<b>Monitoring Parameters</b>	<b>Type of Monitoring</b>	<b>Collection Method</b>	<b>Sampling Frequency</b>
LWL13	Arsenic	Ambient Water Quality	Grab Samples	Quarterly
LWL13	Cadmium	Ambient Water Quality	Grab Samples	Quarterly
LWL13	Chlorophyll-a	Ambient Water Quality	Grab Samples	Monthly
LWL13	Copper	Ambient Water Quality	Grab Samples	Quarterly
LWL13	Dissolved Oxygen	Ambient Water Quality	Grab Samples	Monthly
LWL13	Lead	Ambient Water Quality	Grab Samples	Quarterly
LWL13	Nitrogen, Ammonia	Ambient Water Quality	Grab Samples	Monthly
LWL13	Nitrogen, Nitrate-Nitrite	Ambient Water Quality	Grab Samples	Monthly
LWL13	Nitrogen, Total	Ambient Water Quality	Grab Samples	Monthly
LWL13	pH	Ambient Water Quality	Grab Samples	Monthly
LWL13	Phosphorous, Orthophosphate	Ambient Water Quality	Grab Samples	Monthly
LWL13	Phosphorous, Total Kjeldahl	Ambient Water Quality	Grab Samples	Monthly
LWL13	Salinity	Ambient Water Quality	Grab Samples	Monthly
LWL13	Specific Conductivity	Ambient Water Quality	Grab Samples	Monthly
LWL13	Temperature	Ambient Water Quality	Grab Samples	Monthly
LWL13	Turbidity	Ambient Water Quality	Grab Samples	Monthly
LWL13	Zinc	Ambient Water Quality	Grab Samples	Quarterly

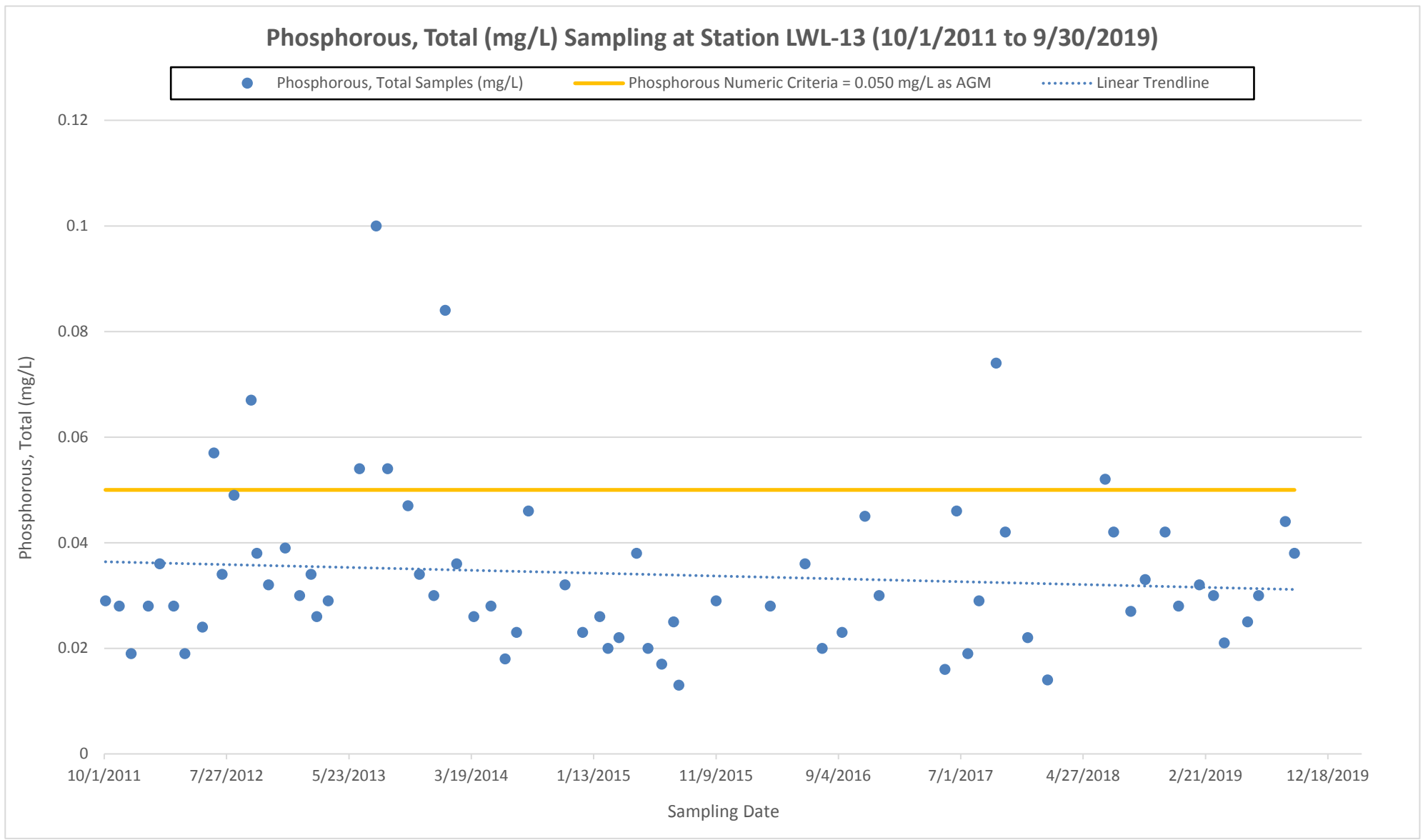
Per the Town’s Assessment Program, sampling data information for total phosphorous at site LWL-13 has been extracted from prior joint annual reports in order to provide a historical comparison of the nutrient levels at site LWL-13. The sampling data obtained for use in this analysis spans from October 2011 to September 2019. This historical sampling data will be compared to the Numeric Nutrient Criteria for the Southern Lake Worth Lagoon as shown in **Table 2** below. The Specific Narrative Nutrient Criterion for total phosphorous is expressed as an annual geometric mean (AGM) and is based on the criteria set forth in FAC Rule 62-302.532. Please refer to the PBC Joint Annual Report for further information regarding the derivation of the Numeric Nutrient Criteria specific to Palm Beach County estuaries / marine water bodies and fresh water lakes.

**Table 2**  
**State of Florida Numeric Interpretation of the Estuary**  
**Specific Narrative Nutrient Criterion per Rule 62-302.32**

<b>Estuary</b>	<b>Total Phosphorous</b>
Southern Lake Worth Lagoon	0.050 mg/L as AGM*

\*Refer to PBC Joint Annual Report for further information regarding derivation of annual geometric mean (AGM)

**Figure 1** shows the sampling data for total phosphorus in mg/L at sampling station LWL-13 and the corresponding date that the samples were taken. The linear trend line shown on the graph shows a slight down-trend from 2011 to 2019, and overall the majority of the samples taken are substantially below the total phosphorous numeric criteria of 0.050 mg/L as AGM.



**Figure 1:** Total Phosphorous Samples (mg/L) vs. Date Sample Collected (10/1/2011 to 9/30/2019)

**Table 2** shows the specific total phosphorous sampling data at monitoring site LWL-13 for the Cycle 4, Year 3 Reporting Period. The calculated geometric mean for total phosphorous for this reporting period at monitoring station LWL-13 is 0.0314 mg/L. The calculated geometric mean specifically for this reporting period is less than the specific narrative nutrient criterion per Rule 62-302.532 of 0.050 mg/L as AGM for the Southern Lake Worth Lagoon.

**Table 2**  
**LWL-13 Total Nitrogen Samples for Cycle 4, Year 3**

LWL-13	Monitoring Parameter
Date	Phosphorous, Total (mg/L)
11/14/2018	0.042
12/17/2018	0.028
2/6/2019	0.032
3/13/2019	0.030
4/8/2019	0.021
6/4/2019	0.025
7/1/2019	0.030
9/5/2019	0.044
9/27/2019	0.038

### Part B – Pollutant Loading Estimate Summary

As part of the Cycle 4, Year 3 permit, it is required that the average annual pollutant loading and event mean concentration (EMC) estimates be provided for the following six (6) water quality parameters in units of mg/L:

- Biochemical oxygen demand (BOD<sub>5</sub>)
- Total suspended solids (TSS)
- Total phosphorous (TP)
- Total copper (Cu)
- Total zinc (Zn)
- Total nitrogen (TN)

During Year 2 of this permit cycle, the Town of Lantana reviewed and provided the following updated information to the Palm Beach County MS4 permittee group:

- MS4 contributing areas to each receiving water
- Town extents
- Land Uses
- Water Quality Best Management Practices (BMPs)

The Palm Beach County MS4 permittee group developed pollutant loading estimates during the 3<sup>rd</sup> year of this permit cycle, using the SIMPLE protocol on a watershed basis. The Town of Lantana is located in the Lake Worth Lagoon watershed. The group’s estimated pollutant loading results comparison between Cycle 3, Year 3 and Cycle 4, Year 3 as they pertain to the Town of Lantana are

shown in **Table 4**. The Town participates in the group’s public education program, which allows for a 6% reduction in pollutant loadings and is summarized in **Table 4** below.

**Table 4**  
**Pollutant Loadings (lbs./yr.) – Town of Lantana – Lake Worth Lagoon Watershed\***

Parameter	BOD <sub>5</sub>	TSS	TP	Cu	Zn	TN
<b>2013 Loads (lbs./yr.)</b>	4,785	22,169	239	13	48	6,802
<b>2018 Loads (lbs./yr.)</b>	4,781	22,143	239	13	48	1,661
<b>2018 Public Education Reduction (6%)</b>	287	1,329	14	0.78	2.88	100
<b>Adjusted 2018 Loads (lbs./yr.)</b>	4,494	20,814	225	12.22	45.12	1,561
<b>Percent Reduction from 2013 to 2018</b>	6.08%	6.11%	5.86%	6.00%	6.00%	77.05%

\*Pollutant loading values (lbs./yr.) from “Cycle 4, Year 3 – Summary of Average Annual Pollutant Loading Model Activities” by Mock-Roos & Associates, Inc.

All six (6) parameters indicate decreases in pollutant loading between the Cycle 3, Year 3 and Cycle 4, Year 3 reporting period within the Lake Worth Lagoon watershed pertaining to the Town of Lantana MS4.

### Part C – Cycle 4, Year 3 Reporting Period Conclusions

In summary, the historical evaluation of the total phosphorous samples at monitoring station LWL-13 shows that on average the samples are below their respective numeric nutrient criteria. For the Cycle 4, Year 3 Reporting period the calculated average geometric mean for total phosphorous was below the specific narrative nutrient criterion of 0.050 mg/L as AGM for the Southern Lake Worth Lagoon.

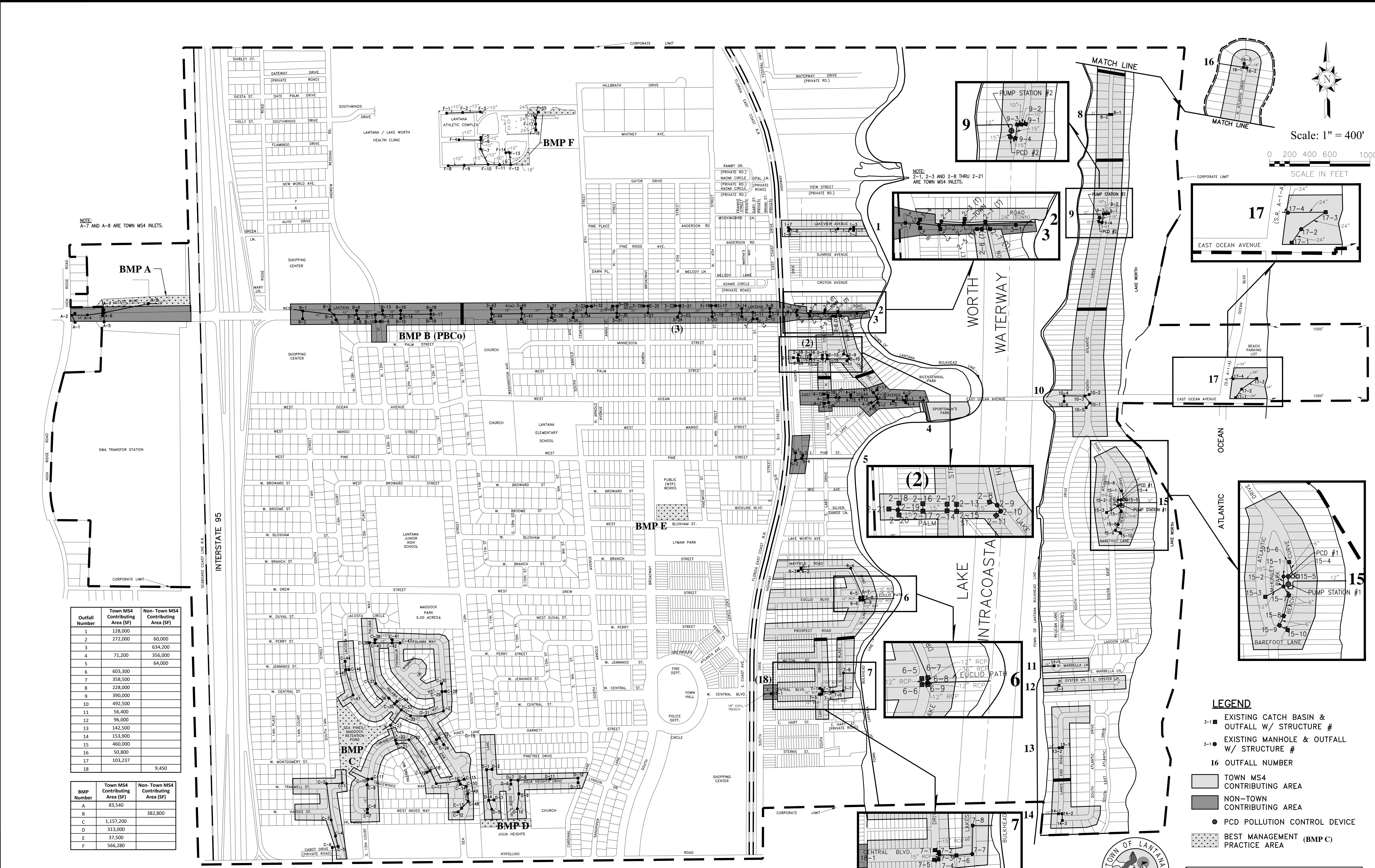
The pollutant loading estimate summary for the Town of Lantana’s MS4 as part of the Lake Worth Lagoon watershed indicated decreases in pollutant loading between 2013 (Cycle 3, Year 3) and 2018 (Cycle 4, Year 3) for all six (6) parameters.

The Town of Lantana currently has no major outfalls, and based on this assessment program summary, the Town’s existing stormwater management programs are proven effective. At this time, no additional stormwater management control measures are proposed for the Town of Lantana’s MS4.

***Town of Lantana - NPDES Permit No. FLS000018 - Cycle 4, Year 3***

***Appendix B – Revised NPDES MS4 Drainage System Map***

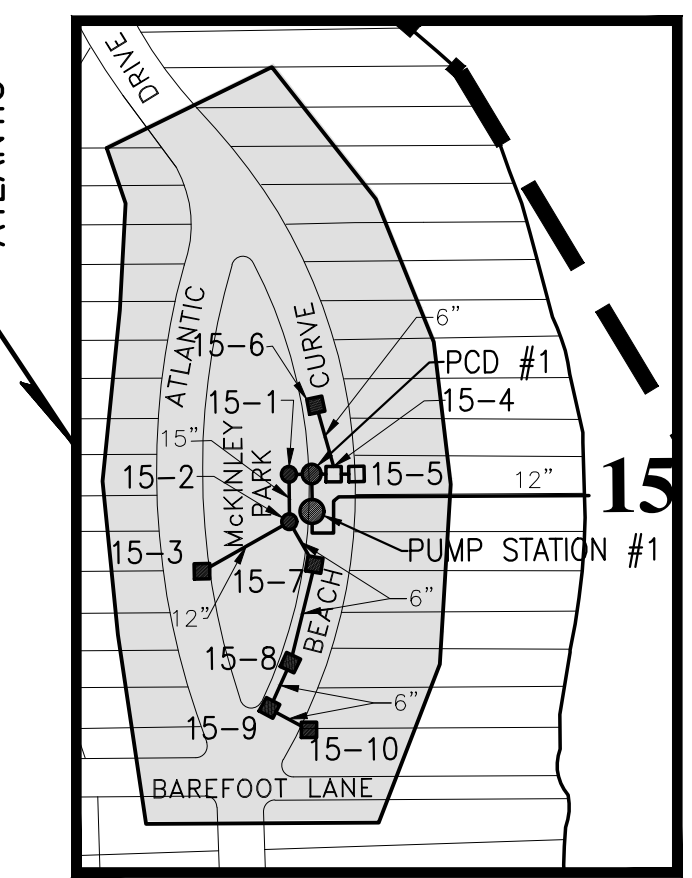
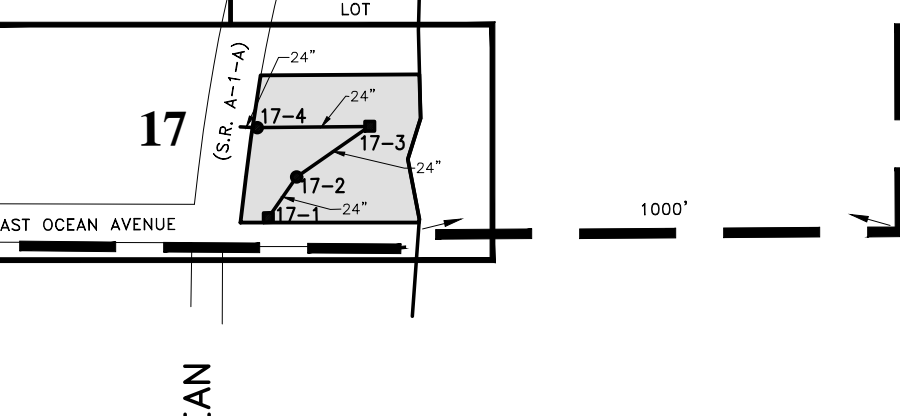
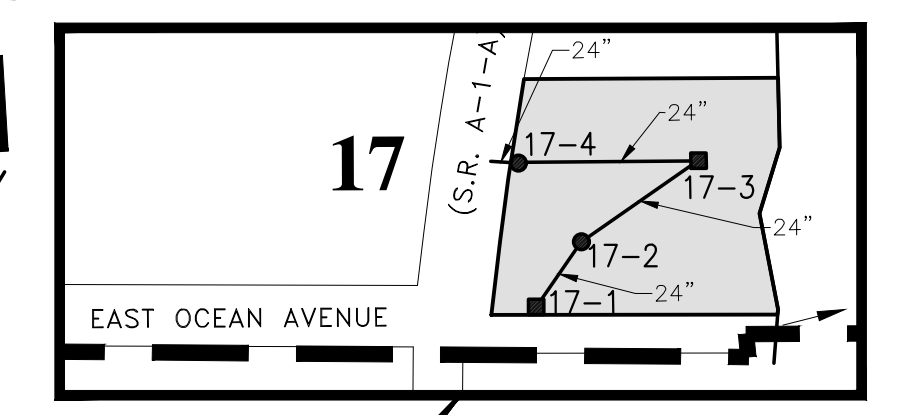
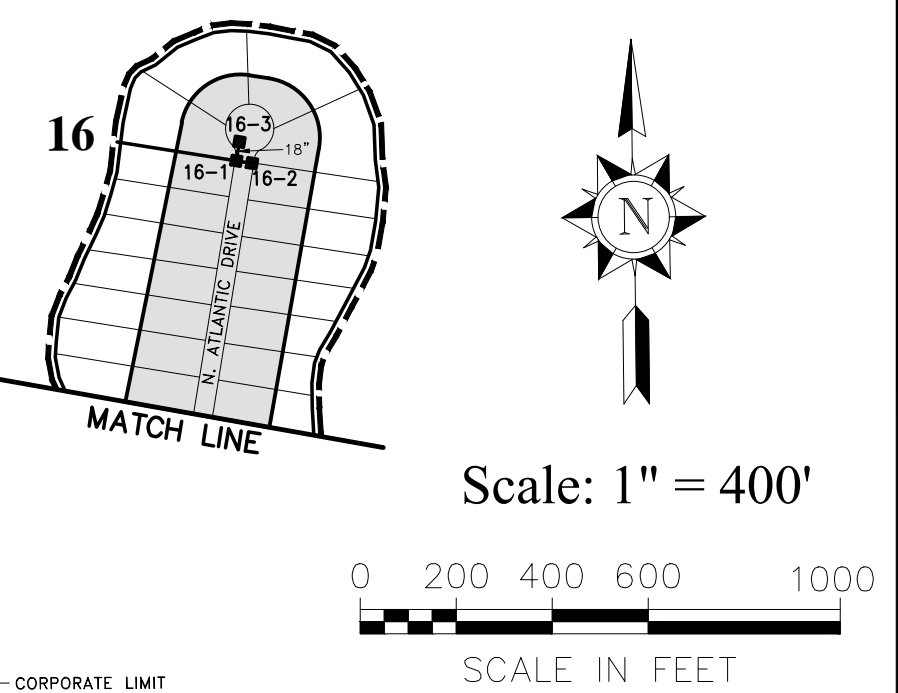
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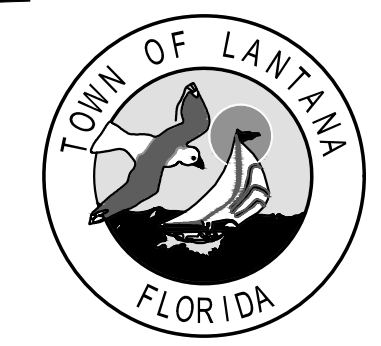
NOTE: A-7 AND A-8 ARE TOWN MS4 INLETS.

Outfall Number	Town MS4 Contributing Area (SF)	Non-Town MS4 Contributing Area (SF)
1	128,000	60,000
2	272,000	634,200
3	71,200	356,000
4	603,300	64,000
5	358,500	
6	228,000	
7	390,000	
8	492,500	
9	56,400	
10	96,000	
11	142,500	
12	153,900	
13	460,000	
14	50,800	
15	103,237	
16		9,450
17		
18		

BMP Number	Town MS4 Contributing Area (SF)	Non-Town MS4 Contributing Area (SF)
A	83,540	382,800
B	1,157,200	
C	313,000	
D	37,500	
E	566,280	
F		



- LEGEND**
- 3-1 ■ EXISTING CATCH BASIN & OUTFALL W/ STRUCTURE #
  - 3-1 ● EXISTING MANHOLE & OUTFALL W/ STRUCTURE #
  - 16 ○ OUTFALL NUMBER
  - TOWN MS4 CONTRIBUTING AREA
  - NON-TOWN CONTRIBUTING AREA
  - PCD POLLUTION CONTROL DEVICE
  - BEST MANAGEMENT (BMP C) PRACTICE AREA



**TOWN OF LANTANA**

**NPDES MS4 DRAINAGE SYSTEM MAP**  
UPDATED FEBRUARY 2020



***Town of Lantana - NPDES Permit No. FLS000018 - Cycle 4, Year 3***

***Appendix C – Part II.A.1***  
***Explanation of Why Minimum Inspection Frequencies Not Met***  
***For Pollution Control Boxes & Stormwater Pump Stations***

The required inspection frequency for pollution controls boxes is quarterly, and the required inspection frequency for stormwater pump stations is semi-annually during each reporting period. The Town provided inspection reports for 4 inspections at PCD #2 and 4 inspections at stormwater pump station #2, which satisfy the required inspection frequency. The Town only provided inspection reports for 1 inspection at PCD #1 and 1 inspection at stormwater pump station #1, both of which do not meet the required inspection frequency. The Town completed the minimum required inspections for PCD #1 and stormwater pump station #1, but did not document all of the inspections performed during the reporting period.

As part of the Year 2 Annual Report, the Town updated the “Drainage Inspection and Maintenance Report Form” to provide a line item specifically for the pump stations and PCD inspections to make it easier for the Town inspectors to report. This revised form was submitted with the revised Year 2 Annual Report per comments received from FDEP during the audit held on June 13, 2019. For future reporting periods, this updated inspection form will assist the Town with meeting the minimum required inspections for pollution control boxes and stormwater pump stations.