



Annual Report Form For Individual NPDES Permits For Municipal Separate Storm Sewer Systems (RULE 62-624.600(2), F.A.C.)

- This Annual Report Form must be completed and submitted to the Department to satisfy the annual reporting requirements established in Rule 62-621.600, F.A.C.
- Submit this fully completed and signed form and any REQUIRED attachments by email to the NPDES Stormwater Program Administrator or to the MS4 coordinator (<http://www.dep.state.fl.us/water/stormwater/npdes/contacts.htm>). Files larger than 10MB may be placed on the FTP site at: ftp://ftp.dep.state.fl.us/pub/NPDES_Stormwater/. After uploading files, email the MS4 coordinator or NPDES Program Administrator to notify them the report is ready for downloading; or by mail to the address in the box at right.
- Refer to the Form Instructions for guidance on completing each section.
- **Please print or type information in the appropriate areas below.**

Submit the form and attachments to:
 Florida Department of Environmental Protection
 Mail Station 3585
 2600 Blair Stone Road
 Tallahassee, Florida 32399-2400

SECTION I. BACKGROUND INFORMATION

A.	Permittee Name: Town of Jupiter Inlet Colony		
B.	Permit Name: Palm Beach County Municipal Separate Storm Sewer System		
C.	Permit Number: FLS000018-004		
D.	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:		
E.	Reporting Time Period (month/year): Oct. / 2018 through Sept. / 2019		
F.	Name of the Responsible Authority: Dr. Daniel J. Comerford, III		
	Title: Mayor		
	Mailing Address: 50 Colony Road		
	City: Jupiter Inlet Colony	Zip Code: 33469	County: Palm Beach
	Telephone Number: 561-746-3787		Fax Number: 561-746-1068
G.	E-mail Address: comerfordd@jupiterinletcolony.org		
	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above):		
	Title:		
	Department:		
	Mailing Address:		
	City:	Zip Code:	County:
	Telephone Number:		Fax Number:
E-mail Address:			

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

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

A.	<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: The individual Assessment Plan for Jupiter Inlet Colony was approved on June 5, 2019.</p> <p>Status: The monitoring program is carried out jointly by the 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 herewith.</p>
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>Please refer to Cycle 3, Year 6 Joint Annual Report for proposed pollutant loading analysis changes. The best available information on existing pollutant loading estimates is documented in the Cycle 3, Year 3 Joint Annual Report.</p> <p>See attached Annual Assessment Report.</p>
C.	<p>Attach a monitoring data summary as required by the permit. An analysis of the data discussing changes in water quality and/or stormwater pollutant loading from previous reporting years. <i>DEP Note: Analysis must be specific to the permittee's SWMP.</i></p> <p>See attached Annual Assessment Report.</p>

SECTION IV. FISCAL ANALYSIS

A.	Total expenditures for the NPDES stormwater management program for the current reporting year: \$32,486.14
B.	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$30,000.00
C.	<p>Did the current reporting year resources decrease from the previous year? Y <input checked="" type="checkbox"/> / N <input type="checkbox"/></p> <p>The JIC Stormwater budget was evaluated and adjusted per actual expenditures post stormwater infrastructure improvements project.</p> <p>If program resources decreased, provide a discussion of the impacts on the implementation of the SWMP.</p> <p>There is no anticipated impact on the existing stormwater infrastructure due to the complete rehabilitation completed previously. Only routine maintenance and inspections are anticipated.</p>

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

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

Attached	N/A	Required Attachments	Permit Citation	Attachment Number/Title
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Any additional information required to be submitted in this current annual reporting year in accordance with Part III.A of your permit that is not otherwise included in Section VII below.	Part III.A	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	An explanation of why the minimum inspection frequency in Table II.A.1.a. was not met, if applicable.	Part II.A.1	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	A list of the flood control projects that did not include stormwater treatment and an explanation for each of why it did not (if applicable).	Part III.A.4	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	A monitoring data summary as directed in Section III.C above and in accordance with Rule 62-624.600(2)(c), F.A.C.	Part V.B.3	See Joint Annual Report and attached Assessment Report
<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	See Joint Annual Report and attached Assessment Report
<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"> • The monitoring plan (with revisions, if applicable). • If the total annual pollutant loadings have not decreased over the past two permit cycles, revisions to the SWMP, as appropriate. 	Part V.B.3 Part V.A.3	
<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): Dr. Daniel J. Comerford, III

Title: Mayor

Signature:  Date: 2/18/2020

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
Part III.A.1	Structural Controls and Stormwater Collection Systems Operation								
	<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>								
	Type of Structure	Number of Structures	Number of Inspections	Percent Inspected	Number of Maintenance Activities	Percent Maintained			
Dry retention systems		0	0	0	0	0			None
Underdrain filter systems	0	0	0	0	0			None	
Exfiltration trench / French drains (lf)	4480	7	100	0	100	Inspection Reports	Kimley-Horn and/or Town Staff	Performed Monthly Inspections of Stormwater System	
Grass treatment swales (miles)	5.6	7	100	0	100	Inspection Reports	Kimley-Horn and/or Town Staff	Performed Monthly Inspections of Stormwater System	
Dry detention systems	0	0	0	0	0			None	
Wet detention systems	0	0	0	0	0			None	
Detention with filtration systems	0	0	0	0	0			None	
Alum Injection systems	0	0	0	0	0			None	
Pollution control boxes	0	0	0	0	0			None	
pump stations	0	0	0	0	0			None	
Major outfalls	5	7	100	0	100	Inspection Reports	Kimley-Horn and/or Town Staff	Performed Monthly Inspections of Stormwater System	
Weirs or other control structures	0	0	0	0	0			None	
pipes / culverts (miles)	2194	7	100	0	100	Inspection Reports	Kimley-Horn and/or Town	Performed Monthly	

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.1 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: No problem with the overall stormwater/drainage system serving the Town. All structural controls are in good operating condition and recently rehabilitated which requires minimal maintenance at the present time.				
	Limitations: None				
	SWMP revisions implemented to address limitations: No revisions recommended at this time				
Part III.A.2	Areas of New Development and Significant Redevelopment				
	Report the number of significant development projects, including new and redevelopment, reviewed and approved by the permittee for post-development stormwater considerations.				
	Number of significant development projects reviewed	0			None
	Number of significant development projects approved	0			None
	Provide in the Year 2 Annual Report the summary report of the review activity. Provide in the Year 4 Annual Report the follow-up report on plan implementation.				
	Year 2 ONLY: Attach the summary report of the review activity	<input type="checkbox"/>			
Year 4 ONLY: Attach the follow-up report on plan implementation	<input type="checkbox"/>				
Part III.A.2 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: All redevelopment in the Town has been to single family residences as there is no commercial or industrial uses in the Town.				
	Limitations: None.				
	SWMP revisions implemented to address limitations: No revisions recommended at this time				
Part III.A.3	Roadways				
	Report on the litter control program, including the frequency of litter collection, an estimate of the total number of road miles cleaned or amount of area covered by the activities, and an estimate of the quantity of litter collected.				
	<i>Note: If the permittee does not contract activities, delete CONTRACTOR activities.</i>				
	PERMITTEE Litter Control: Frequency of litter collection	Daily	Annual Summary Report	Property Owners	Property owners are responsible for litter removal in the swale areas adjacent to their properties. Any issues are noted by the Police Dept/Kimley-Horn during their routine inspections.
PERMITTEE Litter Control: Estimated amount of area maintained (lf)	5.6	Annual	Property Owners	See above.	

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
			Summary Report		
	PERMITTEE Litter Control: Estimated amount of litter collected (cy)	15	Email	Property Owners	Estimate by JIC made throughout the year by Property Owners
	CONTRACTOR Litter Control: Frequency of litter collection	0			
	CONTRACTOR Litter Control: Estimated amount of area maintained (lf)	0			
	CONTRACTOR Litter Control: Estimated amount of litter collected (cy)	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".				
	Trash Pick-up Events: Total miles cleaned	0.75	Town Records	Town Staff and Volunteers	An event in April occurred within JIC along the beach.
	Trash Pick-up Events: Estimated amount of litter collected (lbs)	300	Town Records	Town Staff and Volunteers	An event in April occurred within JIC along the beach.
	Adopt-A-Road: Total miles cleaned	0			
	Adopt-A-Road: Estimated amount of litter collected (cy)	0			
	Report on the street sweeping program, including the frequency of the sweeping, total miles swept, an estimate of the quantity of sweepings collected, and the total nitrogen and total phosphorus loadings that were removed by the collection of sweepings. If no street sweeping program is implemented, provide the explanation of why not in column F.				
	Frequency of street sweeping	Monthly	Invoice	Facilities Pro-Sweep	None
	Total miles swept	5.6	Invoice	Facilities Pro-Sweep	None
	Estimated quantity of sweeping material collected (cy)	11	Invoice	Facilities Pro-Sweep	None
	Total phosphorous loadings removed (pounds)	0	FSA Spreadsheet	Kimley-Horn	Performed conversion based on PBCO-NPDES calculations

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Total nitrogen loadings removed (pounds)	1	FSA Spreadsheet	Kimley-Horn	Performed conversation based on PBCO-NPDES calculations.
	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			
Part III.A.3 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: Only local residential streets are within the Town and only require minor maintenance on an as needed basis. Litter control and clean-up are the responsibility of the property owners.				
	Limitations: None.				
	SWMP revisions implemented to address limitations: No revisions recommended at this time.				
Part III.A.4	Flood Control Projects				
	Report the total number of flood control projects that were constructed by the permittee during the reporting period and the number of those projects that did NOT include stormwater treatment. The permittee shall provide a list of the projects where stormwater treatment was not included with an explanation for each of why it was not.				
	Report on any stormwater retrofit planning activities and the associated implementation of retrofitting projects to reduce stormwater pollutant loads from existing drainage systems that do not have treatment BMPs.				
	Flood control projects completed during the reporting period	0			
	Flood control projects completed that did <u>not</u> include stormwater treatment	0			
	Stormwater retrofit projects planned/under construction	0			
	Stormwater retrofit projects completed	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.	<input type="checkbox"/>			
Part III.A.4 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: N/A				
	Limitations: N/A				
	SWMP revisions implemented to address limitations: N/A				

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.5	Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an NPDES Stormwater Permit				
	Report the applicable facilities and the number of the inspections conducted for each facility.				
	Name of Facility	Number of Inspections			
	None	0			
	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
Part III.A.5 Summary	Strengths: The Town does not utilize TSD facilities.				
	Limitations: N/A				
	SWMP revisions implemented to address limitations: N/A, the Loxahatchee River District is responsible for the Town WW Utility				
Part III.A.6	Pesticides, Herbicides, and Fertilizer Application				
	Report the number of permittee personnel applicators and contracted commercial applicators of pesticides and herbicides who are FDACS certified / licensed.				
	Report the number of permittee personnel who have been trained through the Green Industry BMP Program and the number of contracted commercial applicators of fertilizer who are FDACS certified / licensed.				
	PERSONNEL: FDACS public applicators of pesticides/herbicides	0			Personnel does not perform
	CONTRACTORS: FDACS commercial applicators of pesticides/ herbicides	1	FDACS License	FDACS	FY18/19 log from Emerald Gardens.
	PERSONNEL: Green Industry BMP Program training completed	0			Personnel does not perform
	CONTRACTORS: FDACS certified / licensed applicators of fertilizer	1	FDACS License	FDACS	FY18/19 log from Emerald Gardens.
	Provide a copy of the adopted ordinance with the Year 2 Annual Report. If this provision is not applicable because the permittee is not within the watershed of a nutrient-impaired water body, indicate that in Column F.				
	Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance	<input type="checkbox"/>			
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage citizens to reduce their use of pesticides, herbicides and fertilizers including the type and number of activities conducted, the type and number of materials distributed, and the number of Web site visits (if applicable).				
	Public Education and Outreach Program	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.			
	Brochures/Flyers/Fact sheets distributed				
	Neighborhood presentations: Number conducted				
	Neighborhood presentations: Number of participants				

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Newspapers & newsletters: Number of articles/notices published				
	Newsletters: Number of newsletters distributed				
	Public displays (e.g., kiosks, storyboards, posters, etc.)				
	Radio or television Public Service Announcements (PSAs)				
	School presentations: Number conducted				
	School presentations: Number of participants				
	Seminars/Workshops: Number conducted				
	Seminars/Workshops: Number of participants				
	Special events: Number conducted				
	Special events: Number of participants				
	Number of visitors to stormwater-related pages				
	FYN: Brochure/Flyers/Fact sheets distributed				
	FYN: Neighborhood presentations: Number conducted				
	FYN: Neighborhood presentations: Number of participants				
	FYN: Public displays (e.g., kiosks, storyboards, posters, etc.)				
	FYN: Radio or television Public Service Announcements (PSAs)				
	FYN: School presentations: Number conducted				
	FYN: School presentations: Number of participants				
	FYN: Seminars/Workshops: Number conducted				
	FYN: Seminars/Workshops: Number of participants				
	FYN: Special events: Number conducted				
	FYN: Special events: Number of participants				
Part III.A.6 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: Pesticide fertilizer is not performed by personnel and contracted out. The Town has adopted a fertilizer ordinance.				
	Limitations: None				
	SWMP revisions implemented to address limitations: None at this time.				
Part III.A.7.a	Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures				
	Report amendments in Year 4.				
	Year 4 ONLY: Attach a report on amendments to applicable legal authority	<input type="checkbox"/>			
Part III.A.7.c	Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit Discharges and/or Improper Disposal				
	Report on the proactive inspection program, including the number of inspections conducted by the permittee, the number of illicit activities found, and the number and type of enforcement actions taken.				
	Proactive inspections for suspected illicit discharges	3	Monthly NPDES Inspection Report	Kimley-Horn and/or Town Staff	None
	Illicit discharges found during a proactive inspection	0		Kimley-Horn	None

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	NOV/WL/citation/fines issued for illicit discharges found during proactive inspection	0		and/or Town Staff Kimley-Horn and/or Town Staff	None
	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.				
	Reports of suspected illicit discharges received	0		Kimley-Horn and/or Town Staff	None
	Reactive investigations of reports of suspected illicit discharges etc.	0		Kimley-Horn and/or Town Staff	None
	Illicit discharges etc. found during reactive investigation	0		Kimley-Horn and/or Town Staff	None
	NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation	0		Kimley-Horn and/or Town Staff	None
	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	0	None	None	None
	Contractors trained	0	None	None	None
Part III.A.7.d	Illicit Discharges and Improper Disposal — Spill Prevention and Response				
	Report on the spill prevention and response activities, including the number of spills addressed.				
	Hazardous and non-hazardous material spills responded to	0			None
	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	0	None	None	None
	Contractors trained	0	None	None	None
Part III.A.7.e	Illicit Discharges and Improper Disposal — Public Reporting				
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage the public reporting of suspected illicit discharges and improper disposal of materials, including the type and number of activities conducted, the type and number of materials distributed, and the number of Web site visits (if applicable).				
	Public Education and Outreach Program	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.			
	Publicize the Palm Beach County Complaint Hotline Brochures/Flyers/Fact sheets distributed				

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Neighborhood presentations: Number conducted Neighborhood presentations: Number of participants Newspapers & newsletters: Number of articles/notices published Newsletters: Number of newsletters distributed Public displays (e.g., kiosks, storyboards, posters, etc.) Radio or television Public Service Announcements (PSAs) School presentations: Number conducted School presentations: Number of participants Seminars/Workshops: Number conducted Seminars/Workshops: Number of participants Special events: Number conducted Special events: Number of participants Number of visitors to stormwater-related pages				
Part III.A.7.f	Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control				
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage the proper use and disposal of oils, toxics, and household hazardous waste, including the type and number of activities conducted, the type and number of materials distributed, the amount of waste collected / recycled / properly disposed, and the number of Web site visits (if applicable).				
	Public Education and Outreach Program	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.			
	Publicize the Palm Beach County Home Chemical Collection Program				
	Brochures/Flyers/Fact sheets distributed				
	Household Hazardous Waste (HHW) Collection Day: Events				
	HHW Collection Day: Amount of waste collected/recycled/disposed (tons)				
	Neighborhood presentations: Number conducted				
	Neighborhood presentations: Number of participants				
	Newspapers & newsletters: Number of articles/notices published				
	Newsletters: Number of newsletters distributed				
	Public displays (e.g., kiosks, storyboards, posters, etc.)				
	Radio or television Public Service Announcements (PSAs)				
	School presentations: Number conducted				
	School presentations: Number of participants				
	Seminars/Workshops: Number conducted				
	Seminars/Workshops: Number of participants				
	Special events: Number conducted				
	Special events: Number of participants				
	Storm sewer inlets newly marked/replaced				
	Number of visitors to stormwater-related pages				

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Part III.A.7.g	Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage				
	Report on the type and number of activities undertaken to reduce or eliminate SSOs and inflow/ infiltration, the number of SSOs or inflow / infiltration incidents found and the number resolved, and the name of the owner of the sanitary sewer system within the permittee's jurisdiction. Report only the SSOs and inflow / infiltration incidents into the MS4.				
	Owner of the sanitary sewer system	Loxahatchee River District (LRD)			
	Activity to reduce/eliminate SSOs and I&I: (description)	0			WW Utility taken care of by LRD
	Activity to reduce/eliminate SSOs and I&I: (description)	0			WW Utility taken care of by LRD
	SSO incidents discovered	0			WW Utility taken care of by LRD
	SSO incidents resolved	0			WW Utility taken care of by LRD
	Inflow / infiltration incidents discovered	0			WW Utility taken care of by LRD
	Inflow / infiltration incidents resolved	0			WW Utility taken care of by LRD
Part III.A.7 Summary	For activities required by Part III.A.7: Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: No illicit discharges or improper disposal reported during the permit year. Town personnel has been trained.				
	Limitations: None				
	SWMP Revisions implemented to address limitations: None at this time.				
Part III.A.8.a	Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections				
	Report on the high-risk facilities inventory, including the type and total number of high risk facilities and the number of facilities newly added each year.				
	Report on the high-risk facilities inspection program, including the number of inspections conducted and the number and type of enforcement actions taken.				
	Type of Facility	Number of Facilities	Number of Inspections	Enforcement Actions	
	Operating municipal landfills	0			No Landfills
	Hazardous waste treatment, storage, disposal and recovery	0			No HWT SDR

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
	(HWTSDR) facilities					facilities
	EPCRA Title III, Section 313 facilities (TRI)		0			No TRI facilities
	Facilities determined as high risk by the permittee		0			No HR facilities
Part III.A.8.b	Industrial and High-Risk Runoff — Monitoring for High Risk Industries					
	Report the number of high risk facilities sampled.					
	High risk facilities sampled		0			No HDR Facilities
Part III.A.8 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.					
	Strengths: No high risk facilities in the Town					
	Limitations: None					
	SWMP revisions implemented to address limitations: None.					
Part III.A.9.a	Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices					
	Report the number of permittee and private pre-construction site plans reviewed for stormwater, erosion, and sedimentation controls, and the number approved.					
	PERMITTEE SITES: Construction site plans reviewed		0			None
	PERMITTEE SITES: Construction site plans approved		0			None
	PRIVATE SITES: Construction site plans reviewed		6	Building Dept.	Town Building Official	New construction/re models of residential properties were approved. No commercial or industrial areas exist within the Town.
	PRIVATE SITES: Construction site plans approved		6	Building Dept.	Town Building Official	New construction/re models of residential properties were approved. No commercial or industrial areas exist within the Town.
	Report the number of development permit applicants notified of the ERP and CGP, and the number of applicants who confirmed ERP and CGP coverage.					
	Notified of ERP stormwater permit requirements		0			All residential construction is

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
					on lots less than one (1) acre.
	Confirmed ERP coverage	0			All residential construction is on lots less than one (1) acre.
	Notified of CGP stormwater permit requirements	0			None
	Confirmed CGP coverage	0			None
Part III.A.9.b	Construction Site Runoff — Inspection and Enforcement				
	Report on the inspection program for privately-operated and permittee-operated construction sites, including the number of active construction sites during the reporting year, the number of inspections of active construction sites, the percentage of active construction sites inspected, and the number and type of enforcement actions / referrals taken.				
	PERMITTEE SITES: Active construction sites	0			None
	PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	0			None
	PERMITTEE SITES: Percentage of active construction sites inspected	0			None
	PRIVATE SITES: Active construction sites	6	Inspection Reports	Kimley-Horn and/or Town Staff	New construction/re models of residential properties were inspected. No commercial or industrial areas exist within the Town.
	PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	6	Inspection Reports	Kimley-Horn and/or Town Staff	Same as above.
	PRIVATE SITES: Percentage of active construction sites inspected	100	Inspection Reports	Kimley-Horn and/or Town Staff	Same as above.
	Enforcement Action	0			None
Part III.A.9.c	Construction Site Runoff — Site Operator Training				
	Report the type of training activities, the number of inspectors, site plan reviewers and site operators trained (both in-house and outside training).				
		DEP Certification	Annual Training		
	Permittee construction site inspectors	0	0	None	None

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
	Permittee construction site plan reviewers	0	None	None	None
	Permittee construction site operators	0	None	None	None
Part III.A.9 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: This SWMP section assures that regulations are set in place to ensure appropriate measures are taken to control erosion and sediment during construction projects throughout the Town. Unnecessary runoff into the MS4 waterways could lead to issues that the Town is attempting to avoid at all costs, especially with the new stormwater system in place.				
	Limitations: None				
	SWMP revisions implemented to address limitations: None at this time.				

SECTION VIII. CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable in Year 4)		
A.	Permit Citation/ SWMP Element	Proposed Changes to the Stormwater Management Program Activities Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change) — REQUIRES DEP APPROVAL PRIOR TO CHANGE IF PROPOSING TO REPLACE OR DELETE AN ACTIVITY.
B.	Permit Citation/ SWMP Element	Changes to the Stormwater Management Program Activities NOT Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change)

SECTION IX. TMDL Status Report

A.	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)
	N/A			<input type="checkbox"/> / <input type="checkbox"/>					
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)					
	N/A								
C.	Provide a brief statement as to the status of TMDL implementation according to Part VIII.B of the permit (e.g. status of monitoring to validate WLA): No discharge to a TMDL WBID at the time of permit issuance.								



TOWN OF JUPITER INLET COLONY
MS4 Permit No. FLS000018-004
Water Quality Monitoring Assessment Report

PURPOSE

This assessment report provides information for the Town of Jupiter Inlet Colony (the Colony) to determine the overall effectiveness of its Stormwater Management Program (SWMP) in reducing stormwater pollutant loadings from its Municipal Separate Storm Sewer System (MS4) to receiving water bodies.

ASSESSMENT REPORT COMPONENTS

As required by the MS4 Permit, the following parts make up this Assessment Report:

- A. A Water Quality Monitoring Plan – The water quality monitoring plan is intended to identify local sources where urban stormwater is adversely affecting surface water resources
- B. A Pollutant Loading Estimate Plan – The pollutant loadings and results are reported and discussed.
- C. An Evaluation and Response Plan – The response plan is the plan of action to be taken based on the results from A. and B. and will be used to identify portions of the MS4 to be targeted for loading reduction/corrective action.

PART A – WATER QUALITY MONITORING PROGRAM

Currently, the Colony uses the ambient water quality data obtained through the Loxahatchee River District (LRD) for monitoring purposes as it is located within the Loxahatchee River watershed. The LRD Ecological Laboratory is certified through the National Environmental Laboratory Accreditation Program (NELAP). All samples are collected and analyzed within the parameters of NELAP's requirements. Once the data is analyzed, it is available to the public through LRD's online database, River Keeper. This data is the primary monitoring approach utilized by the Colony.

In addition to monitoring water quality through sampling stations, the Colony proactively performs quarterly visual inspections of control structures, including the 5 stormwater outfalls, for any indication of illicit discharges or structural impairments.

MONITORING LOCATIONS

As shown in Figure 1, LRD’s monitoring stations 10 and 20 are geographically located north of S. Beach Road, and just south of the peninsula. The Wildpine Ecological Laboratory collects data monthly for station 10 and bi-monthly for station 20. Table 1 identifies these monitoring stations, along with relevant information about the location.

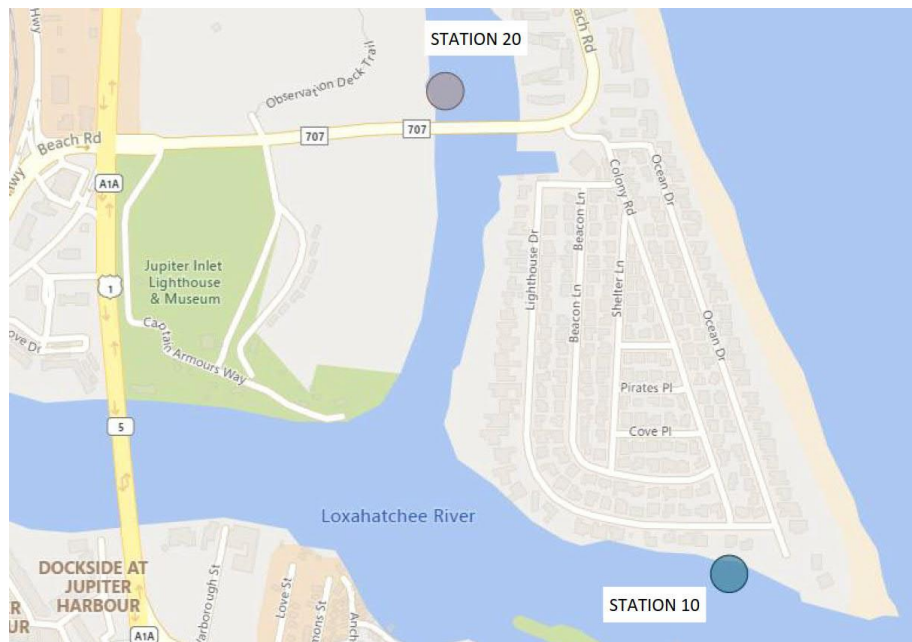


Figure 1: Monitoring Station Locations

Table 1: MS4 Monitoring Stations

Monitoring Station Number	Location Description	Latitude / Longitude	Type	Watershed WBID
10	Jupiter Inlet	26.945345 - 80.073821	Marine	Lox
20	ICW - SR 707	26.953161 - 80.079006	Marine	ICWW

MONITORING RESULTS

FDEP’s primary concern of the stormwater permitting program is related to nutrients and their impact on the stormwater system. The Colony has analyzed the data collected by LRD and developed a 10-year trend to evaluate the nutrient levels. Specifically, Total Nitrogen (TN), Total Phosphorus (TP) and Chlorophyll-A (a surrogate for nutrient enrichment) are analyzed and evaluated below.

Total Nitrogen (TN) and Total Phosphorus (TP) has criteria of less than or equal to 0.63 mg/l and less than or equal to 0.032 mg/l, respectively. Chlorophyll-A has criteria of less than or equal to 1.8 ug/l. Based on data collected from the LRD Lab, water quality monitoring results for the last 10 years (2009-2018) for both station 10 and station 20 have been provided in Tables 2 - 7 for TN, TP, and Chlorophyll-A.

Table 2: Station 10 AGM Total Nitrogen Concentration

Year	Station 10	Station 20
	TN (mg/L)	TN (mg/L)
2009	0.22	0.23
2010	0.24	0.24
2011	0.27	0.28
2012	0.21	0.20
2013	0.20	0.20
2014	0.21	0.21
2015	0.21	0.20
2016	0.29	0.26
2017	0.24	0.21
2018	0.25	0.27

Table 3: Station 20 AGM Total Phosphorus Concentration

Year	Station 10	Station 20
	TP (mg/L)	TP (mg/L)
2009	0.01	0.01
2010	0.02	0.01
2011	0.01	0.01
2012	0.01	0.01
2013	0.01	0.01
2014	0.01	0.01
2015	0.01	0.01
2016	0.01	0.01
2017	0.02	0.01
2018	0.01	0.02

Table 4: Station 20 AGM Total Chlorophyll A Concentration

Year	Station 10	Station 20
	CHL A (ug/L)	CHL A (ug / L)
2009	1.47	1.30
2010	1.85	1.28
2011	1.83	1.12
2012	1.98	1.22
2013	1.17	1.07
2014	1.71	1.59
2015	2.20	1.76
2016	2.39	1.55
2017	1.97	1.68
2018	1.88	1.94

NUTRIENT TRENDS

To evaluate the nutrient trends, the data collected by LRD was plotted using a trendline to provide a graphical representation of the change over time. The following are our findings:

- Station 10 Assessments
 - The 10-year trends demonstrate an increase in total nitrogen and chlorophyll-A with a mostly stagnant trend in total phosphorus.
 - Total nitrogen samples from 2017–2019 illustrated stagnant readings.
 - Total phosphorus samples from 2017–2019 illustrated decreasing readings.
 - Chlorophyll-A samples from 2017–2019 illustrated decreasing readings.

- Station 20 Assessments
 - The 10-year trends demonstrate an increase in total phosphorus and chlorophyll-A with a decreasing trend in total nitrogen.
 - Total phosphorus samples from 2017–2019 illustrated slightly increasing readings.
 - Chlorophyll-A samples from 2017–2019 illustrated slightly increasing readings.

Though a portion of the 10-year trends show increasing values, the trend lines for TP and TN are under the state water quality standards. The trend for Chlorophyll-A shows above the state water quality standard. The Colony completed construction of the Jupiter Inlet Colony Neighborhood Rehabilitation Project in late 2017 which converted the entire neighborhood from individual septic tanks to a collection system in addition to significant stormwater drainage improvements (e.g. exfiltration trenches). Given these extensive efforts, it is assumed the nutrient trends are more a representation of the collective loadings from all the Loxahatchee River contributors rather than just the Colony. The Colony does expect future reductions in nutrient loading not only from the neighborhood infrastructure improvements, but also from public education, newly enforced town ordinances, and implementation of various BMPs. This anticipated reduction is represented in Table 5 in the following section.

It should be noted any spikes in the data collected between 2016-2017 were likely caused from the significant land disturbances resulting from the construction efforts.

PART B – 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 Jupiter Inlet Colony lies in the Loxahatchee River watershed. The pollutant loading data related to the Loxahatchee River will be used to represent the Colony. All six (6) parameters are analyzed and graphed in the Cycle 4, Year 3 Summary of Average Annual Pollutant Loading Model Activities Report prepared by Mock-Roos in 2019 for reference by the co-permittees. Included in this report are analysis of all watersheds, including the Loxahatchee River Watershed (See Figures 3-8, pgs. 20-23). All parameters indicate decreases between the Cycle 3, Year 3 and Cycle 4, Year 3 reporting period within the Loxahatchee River watershed.

Pollutant loadings for the Colony's 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 and 2018 (Table 25, p. 38 of the report) and, specifically, for the Town of Jupiter Inlet Colony MS4 below in Table 5.

The Town of Jupiter Inlet Colony has in place stormwater management programs that reduce the nutrient loading into the Loxahatchee River watershed. In addition, the Colony completed its neighborhood-wide septic to sewer conversion with the stormwater management improvements. These programs include maintenance of conveyance swales, catch basins, and public education utilizing brochures and flyers for public distribution, MS4 group activities and an adopted Fertilizer Ordinance. The public education component alone allows a further 6% reduction in pollutant loadings reported in Table 5 below. All public outreach material is available either on the Colony's website or in Town Hall for the public.

Table 5: Pollutant Loadings (lbs/year) Town of Jupiter Inlet Colony, Loxahatchee River

Parameter	<u>BOD₅</u>	<u>TSS</u>	<u>TP</u>	<u>CU</u>	<u>ZN</u>	<u>TN</u>
2013 Loads	2763	12226	256	8	29	6889
2018 Loads	1990	7207	101	5	19	802
Other Reduction (Less 6%, rounded, per public education)	(119)	(432)	(6)	(.3)	(1)	(48)
Total Amount	1871	6775	95	5	18	754
Percent Reduction	32%	45%	63%	41%	38%	89%

Sources: Table 25 (p.38) of the "Summary of Average Annual Pollutant Loading Model activities" Report (2019) by Mock-Roos.

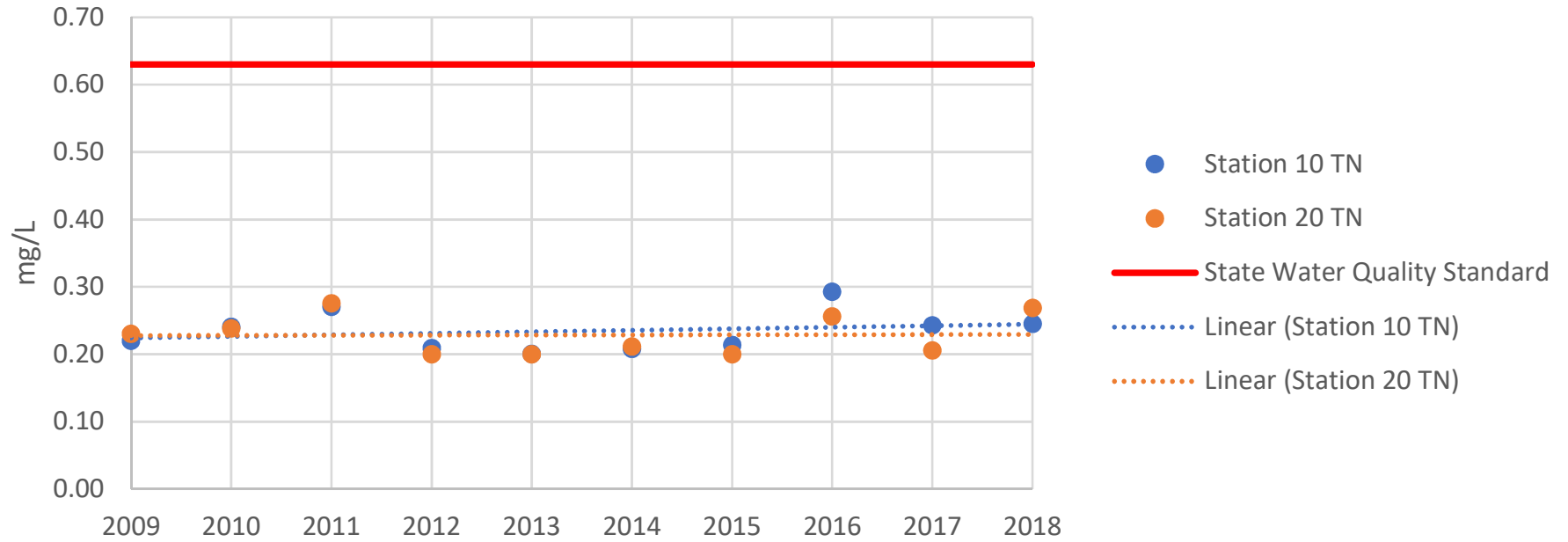
Reductions in pollutant loadings for then six (6) parameters in the Town of Jupiter Inlet Colony MS4 indicate significant reductions between 2013 and 2018.

PART C – CONCLUSION

The Town of Jupiter Inlet Colony stormwater management programs are effective in reducing nutrient loadings. This is supported by the Loxahatchee River District water quality monitoring program and the

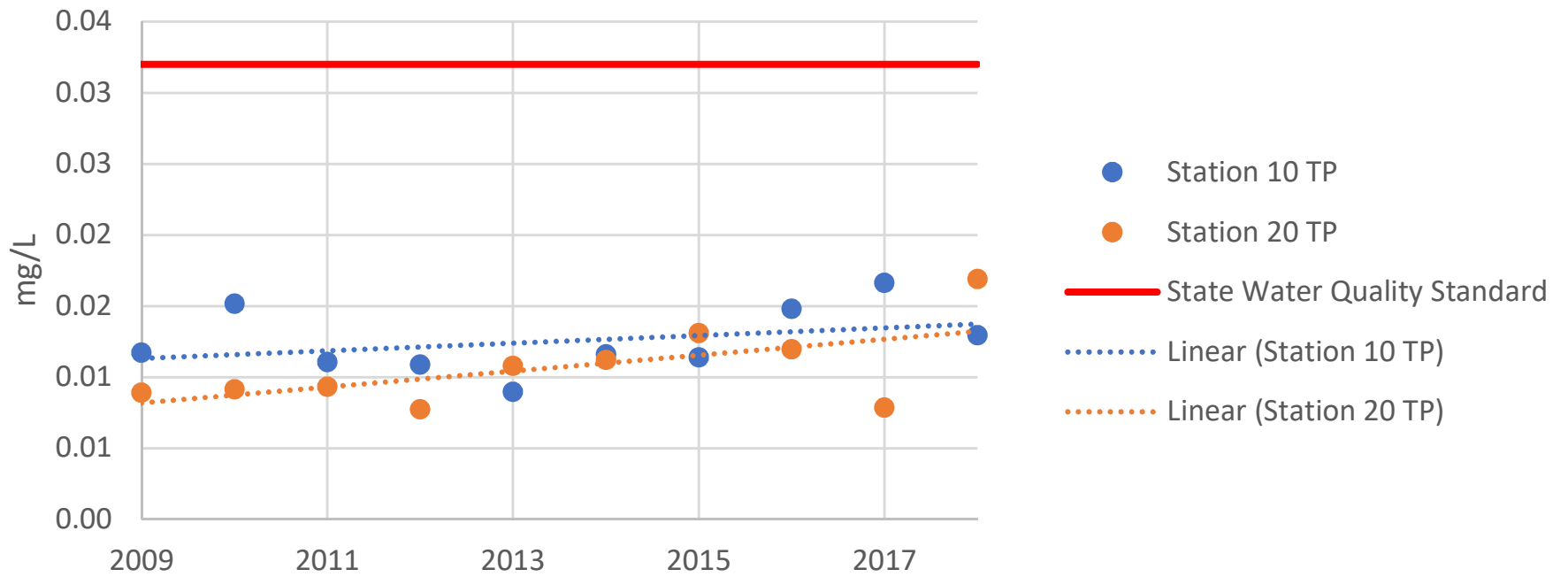
significant pollutant loading reductions resulting from the Town's 2017 Neighborhood Rehabilitation Project. At this time, there is no need to develop further stormwater management programs.

AGM Total Nitrogen (TN) Concentrations Sample Stations 10 and 20



AGM Total Phosphorus (TP) Concentrations

Sample Stations 10 and 20



AGM Chlorophyll-A (CHL A) Concentrations Stations 10 and 20

