



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 62-624.600, 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: Florida Department of Transportation Florida's Turnpike Enterprise		
B.	Permit Name: Palm Beach County MS4		
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): 10 / 2018 through 09 / 2019		
F.	Name of the Responsible Authority: Kim Gutierrez P.E.		
	Title: Deputy Maintenance Engineer		
	Mailing Address: P.O. Box 9828		
	City: Ft. Lauderdale	Zip Code: 33310	County: Broward
	Telephone Number: 954-934-1209		Fax Number: 954-934-1354
G.	E-mail Address: Kim.gutierrez@dot.state.fl.us		
	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Troy Craig		
	Title: NPDES Coordinator		
	Department: Roadway Maintenance		
	Mailing Address: P.O. Box 9828		
	City: Ft. Lauderdale	Zip Code: 33310	County: Broward
Telephone Number: 954-934-1213		Fax Number: 954-934-1354	
E-mail Address: troy.craig@dot.state.fl.us			

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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: Current approved plan for the Group Monitoring Plan is September 8, 2016 (with issuance of the Cycle 4 permit). Our newly-developed, individual Assessment Plan was submitted on 9/8/17.</p> <p>Status: The Group Monitoring Report is included in the Cycle 4, Year 3 Joint Annual Report. The newly-developed, individual Assessment Plan has been approved by FDEP on 5/15/2018.</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 the Cycle 4, Year 3 Joint Annual Report for a summary of the Group's water quality monitoring results and group pollutant loading analysis for the reporting period.</p>
C.	<p>Attach a monitoring data summary, as required by the permit. Summary must include an analysis of the data to evaluate the relationship between changes in water quality and/or stormwater pollutant loading. <i>DEP Note: Analysis must be specific to the permittee's SWMP. See response for Section III.B., above.</i></p>

SECTION IV. FISCAL ANALYSIS

A.	Total expenditures for the NPDES stormwater management program for the current reporting year: \$1,021,531.86
B.	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$17,000,000
C.	<p>Did subsequent program resources decrease from the current reporting period? Y <input type="checkbox"/> / N <input checked="" type="checkbox"/></p> <p>If program resources decreased, provide a discussion of the impacts on the implementation of the SWMP.</p>

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

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

Attached	N/A	Required Attachments	Permit Citation	Attachment Number/Title
<input 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	Education and outreach
<input type="checkbox"/>	<input type="checkbox"/>	If program resources have decreased from the previous year, a discussion of the impacts on the implementation of the SWMP.	Part II.F	
<input 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	
<input type="checkbox"/>	<input 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	
<input type="checkbox"/>	<input 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 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	
<input type="checkbox"/>	<input type="checkbox"/>	YEAR 3: Summary of TMDL Monitoring Results (if applicable).	Part VIII.B.2	
<input type="checkbox"/>	<input type="checkbox"/>	YEAR 3: Bacteria Pollution Control Plan (if applicable).	Part VIII.B.3	
<input type="checkbox"/>	<input 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 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 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): Kim Gutierrez P.E.

Title: Deputy Maintenance Engineer

Signature: _____ Date: 3 / 26 / 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		25	25	100%	25	100%	GIS Collector	FTE NPDES Coordinator & Roadway Maintenance	
Underdrain filter systems		0	0	0	0	0			
Exfiltration trench / French drains (lf)		0	0	0	0	0			
Grass treatment swales (miles)		27.85	108	100%	71	100%	GIS inventory OMS	FTE NPDES Coordinator & Roadway Maintenance	NPDES Coordinator & Maintenance Contractors
Dry detention systems		7	7	100%	7	100%	GIS Collector	FTE NPDES Coordinator & Roadway Maintenance	
Wet detention systems		7	7	100%	7	100%	GIS Collector	FTE NPDES Coordinator & Roadway Maintenance	
Detention with filtration systems		0	0	0	0	0			
Alum Injection systems		0	0	0	0	0			
Pollution control boxes		0	0	0	0	0			
pump stations		0	0	0	0	0			

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE										
A.	B.					C.		D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity					Number of Activities Performed		Documentation / Record	Entity Performing the Activity	Comments
										37 MRP inspection locations
	Major outfalls	14	14	100%	14	100%	GIS Inventory,OMS,	NPDES Coordinator & Roadway Maintenance		
	Weirs or other control structures	14	14	100%	14	100%	GIS Inventory,OMS, MRP	NPDES Coordinator & Roadway Maintenance	Included with major outfalls,ponds, inlets and catch basins.	
	pipes / culverts (LF)	14,828	N/A	9%	1320	9%	GIS Inventory RCI, OMS, MRP	Roadway Maintenance & Construction	6,450 LF cleaned	
	Canals	2	2	100%	0	100%	GIS Inventory RCI, OMS, MRP	NPDES Coordinator & Roadway Maintenance	For future reports canals will be in 1000 ft sections.	
	Inlets / catch basins / grates	617	262	42%	18	3%	GIS Inventory RCI, OMS, MRP	Roadway Maintenance & Construction	Large #209 of CB inspections due to GIS mapping	
	Ditches / conveyance swales (miles)	27.85	108	100%	71	100%	RCI/OMS/MRP	Roadway Maintenance & Construction		
	If the minimum inspection frequencies set forth in Table II.A.1.a. of the permit or the SSWMP 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.					<input type="checkbox"/>				

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE						
A.	B.	C.	D.	E.	F.	
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments	
Part III.A.1 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.					
	Strengths: FTE has implemented Ponds and Canal Maintenance Contract.					
	Limitations: Part of Palm Beach County is in AM contract.					
	SWMP revisions implemented to address limitations: None at this time.					
Part III.A.2	Areas of New Development and Significant Redevelopment					
	Continue to employ the FDOT Drainage Connection Permit requirements to ensure that appropriate stormwater treatment and permitting occurs prior to discharge into the FDOT system. FDOT shall refer connecting entities failing to meet the DCP requirements or maintain the discharge of acceptable water quality, after sufficient warning by FDOT, to DEP and/or the appropriate Water Management District to regulate the stormwater quality through local or State rules, ordinances, and codes. Report the number of enforcement referrals completed.					
		Number of enforcement referrals completed	0	NPDES	Palm Beach County	
Part III.A.2 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.					
	Strengths: Permit requirements to ensure that appropriate stormwater treatment and permitting occurs.					
	Limitations: Very little control over quality of water entering FDOT system.					
	SWMP revisions implemented to address limitations: None at this time.					
Part III.A.3	Roadways					
	Report on the litter control program, including the frequency of litter collection, an estimate of the total number of road miles cleaned or amount of area covered by the activities, and an estimate of the quantity of litter collected. <i>Note: The permittee does not contract activities, delete CONTRACTOR activities.</i>					
		PERMITTEE Litter Control: Frequency of litter collection	0	N/A	N/A	We pick up litter off the road every day. We just don't quantify it.
		PERMITTEE Litter Control: Estimated amount of area maintained (lf)	0	N/A	N/A	Only use contractors
		PERMITTEE Litter Control: Estimated amount of litter collected (cy)	0	N/A	N/A	
		CONTRACTOR Litter Control: Frequency of litter collection	71 cycles	OMS	SF Bushhog Jorgensen	
		CONTRACTOR Litter Control: Estimated amount of area maintained (Acre)	36,958 ACRE	OMS	SF Bushhog Jorgensen	
		CONTRACTOR Litter Control: Estimated amount of litter collected (cy)	93,522.00 lbs	OMS and NPDES	SF Bushhog Jorgensen	Dump & ER tickets
	OPTIONAL: If an Adopt-A-Road or similar program is implemented, report the total number of road miles cleaned and an estimate of the quantity of litter collected. If you do not participate in an Adopt-A-Road program, report "0".					

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Trash Pick-up Events: Total miles cleaned	0	N/A	N/A	
	Trash Pick-up Events: Estimated amount of litter collected (cy)	0	N/A	N/A	
	Adopt-A-Road: Total miles cleaned	0	N/A	N/A	
	Adopt-A-Road: Estimated amount of litter collected (cy)	0	N/A	N/A	
	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	106 cycles	OMS, AM Report	Star Cleaning USA	Priority Towing
	Total miles swept	17,595	OMS, AM Report	Star Cleaning USA	Priority Towing
	Estimated quantity of sweeping material collected (cy / tons)	294.65	NPDES Coordinator	Star Cleaning USA	Priority Towing
	Total phosphorous loadings removed (pounds)	196	NPDES Coordinator	NPDES Coordinator	FSA Assesment Tool
	Total nitrogen loadings removed (pounds)	360	NPDES Coordinator	NPDES Coordinator	FSA Assesment tool
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			
	FTE does not have any.	0	N/A	N/A	

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.3 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: FTE increases sweeping and litter collection as needed.				
	Limitations: 3 landfills on system and garbage trucks loses a lot of garbage on the road.				
	SWMP revisions implemented to address limitations: None 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	Project Solve	TPK Construction	3 resurfacing projects only
	Flood control projects completed that did <u>not</u> include stormwater treatment	0	Project Solve	TPK Construction	
	Stormwater retrofit projects planned/under construction	0	Project Solve	TPK Construction	
	Stormwater retrofit projects completed	0	Project Solve	TPK Construction	
	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.3 of the permit.				
	Strengths: FTE always meets required treatment for stormwater discharge.				
	Limitations: None				
	SWMP revisions implemented to address limitations: None at this time.				

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.5	Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an NPDES Stormwater Permit				
	Report the applicable facilities and the number of the inspections conducted for each facility.				
	Name of Facility	Number of Inspections			
	FTE does not have any	0	N/A	N/A	
Part III.A.5 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: N/A				
	Limitations: N/A				
	SWMP revisions implemented to address limitations: N/A				
Part III.A.6	Pesticides, Herbicides, and Fertilizer Application				
	Report the number of permittee personnel applicators and contracted commercial applicators of pesticides and herbicides who are FDACS certified / licensed.				
	Report the number of permittee personnel who have been trained through the Green Industry BMP Program and the number of contracted commercial applicators of fertilizer who are FDACS certified / licensed.				
	PERSONNEL: FDACS certified applicators of pesticides/herbicides	3	Roadway staff licences	Roadway Maintenance staff	
	CONTRACTORS: FDACS certified/licensed applicators of pesticides/ herbicides	3	Roadway Maintenance Contract	Airboat addicts, K&S Services, Jorgensen	
	PERSONNEL: Green Industry BMP Program training completed	1	NPDES record	Environmenta I Program Manager	
	CONTRACTORS: FDACS certified / licensed applicators of fertilizer	1	Roadway Maintenance Contract	Jorgensen	
Part III.A.6 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: Application is being done correctly due to FTE hiring licenced and certified applicators.				
	Limitations: Knowing if the applicators are the licenced person.				
	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				
	Not Applicable to FDOT. Enforcement is completed through our Joint Part Agreements.				
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				

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
	and type of enforcement actions taken.				
	Proactive inspections for suspected illicit discharges	260	MRP/ NPDES Inspections & Maintenance activities	Turnpike Roadway Maintenance	MRP inspections, spills and Construction inspections.
	Illicit discharges found during a proactive inspection	2	NPDES Coordinator	NPDES Coordinator	
	Number of enforcement referrals completed	0	NPDES Coordinator	NPDES Coordinator	No enforcement
	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	2	NPDES Coordinator	NPDES Coordinator	Pumping flood water into swales
	Reactive investigations of reports of suspected illicit discharges etc.	2	NPDES Coordinator	NPDES Coordinator	Pumping flood water into swales
	Illicit discharges etc. found during reactive investigation	2	NPDES Coordinator	NPDES Coordinator	Pumping flood water into swales
	Number of enforcement referrals completed	0	NPDES Coordinator	NPDES Coordinator	No referral needed
	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	13	Tier 1 IDDE cert	FDOT	
	Contractors trained	35	Tier 1 IDDE cert	FDOT	
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	3	HRC and TKP Permitting	Turnpike contamination coordinator	
	Report the type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training) within the reporting year.				
	Personnel trained	1	NPDES Coordinator	Turnpike Roadway Maintenance	40hr HAZWOPER Training
	Contractors trained	12	HCR ER response personel	HRC	40hr HAZWOPER Training

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE							
A.	B.			C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity			Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.7.e	Illicit Discharges and Improper Disposal — Public Reporting						
	Not Applicable to FDOT.						
Part III.A.7.f	Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control						
	Continue to include a notice with each FDOT Drainage Connection Permit with information on used oil recycling, proper hazardous waste disposal, stormwater regulations, and spill reporting. Report the number of notices distributed.						
		Number of notices distributed	1	Permits Coordinator	Turnpike Roadway Maintenance		
Part III.A.7.g	Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage						
	Advise the appropriate utility owner of a violation if constituents common to wastewater contamination are discovered in FDOT's MS4. Report the number of violations referred to the appropriate utility owner and the name of the utility owner.						
		Owner of the sanitary sewer system					
		Number of violations referred	0	NPDES Coordinator	NPDES Coordinator		
Part III.A.7 Summary	For activities required by Part III.A.7: Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.						
	Strengths: FTE has a comprehensive illicite discharge training online for all contractors and staff.						
	Limitations: Difficult to get everyone to do the training every year.						
	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 outfall inspections conducted and the number of enforcement referrals completed.						
	Type of Facility	Number of Facilities	Number of Inspections	Enforce ment Referrals			
	Operating municipal landfills	0	N/A	N/A			FTE does not operate these facilities.
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	0	N/A	N/A			
	EPCRA Title III, Section 313 facilities (TRI)	0	N/A	N/A			
	Facilities determined as high risk by the permittee	0	N/A	N/A			None identified

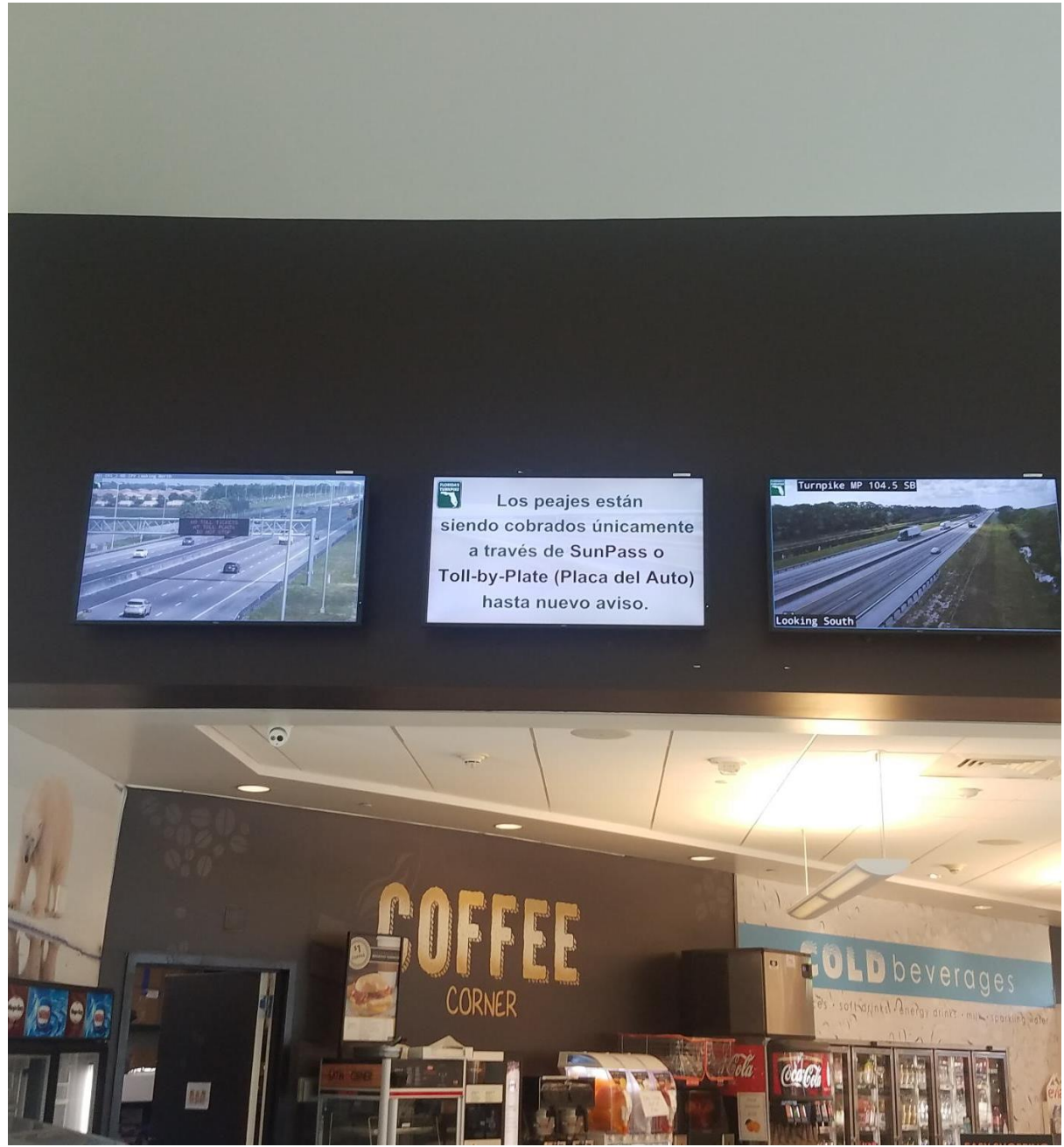
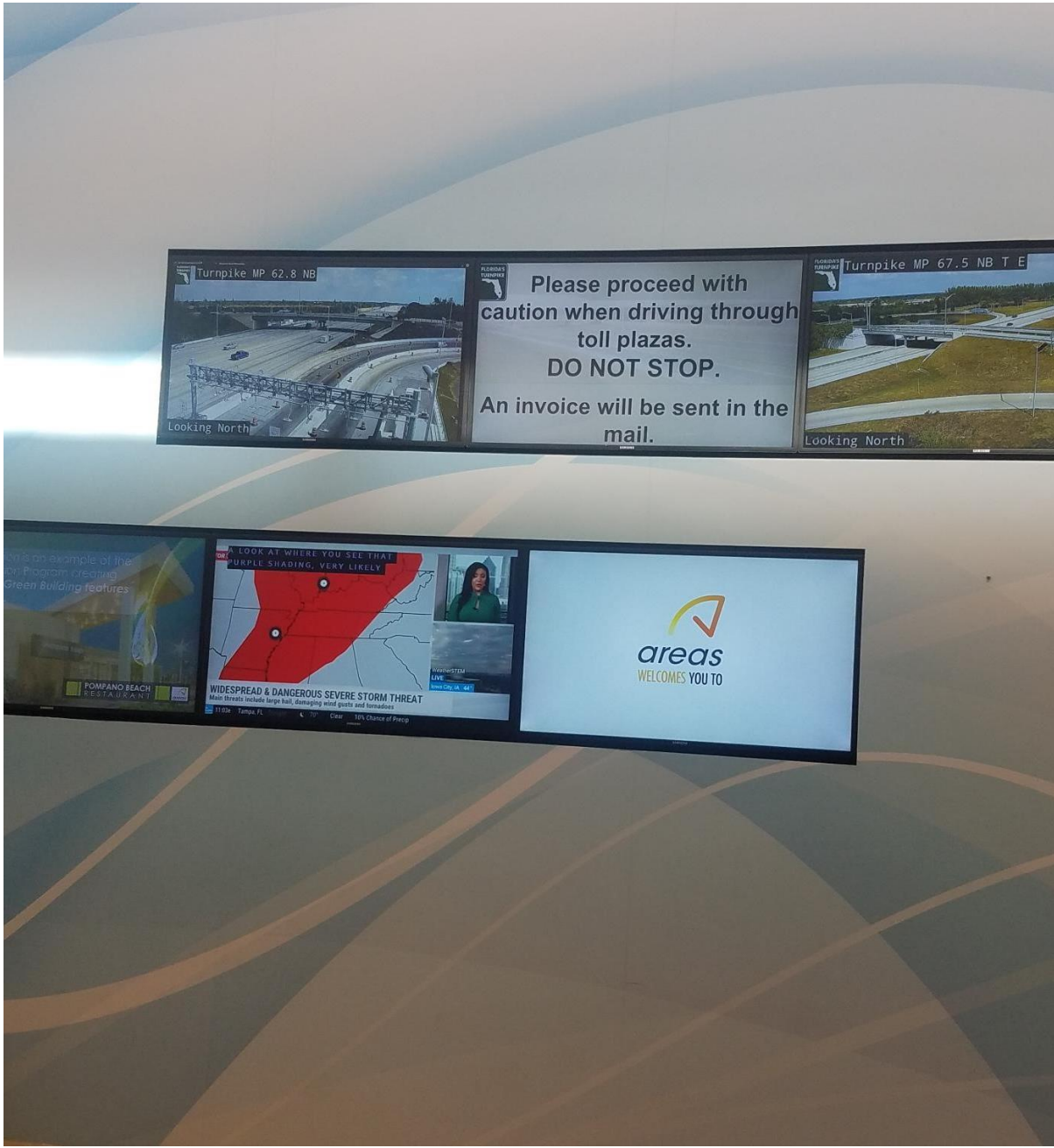
SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.8.b	Industrial and High-Risk Runoff — Monitoring for High Risk Industries				
	Not Applicable to FDOT.				
Part III.A.8 Summary	For activities required by Part III.A.8: Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: N/A				
	Limitations: N/A				
Part III.A.9.a	Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices				
	Employ FDOT DCP conditions that include the use of stormwater, erosion, and sedimentation control BMPs during construction to reduce pollutants to the MS4 and receiving waters. Report the number of permits issued.				
	Number of Discharge Connection Permits issued	1	TKP Permits Department	TKP Permits Department	
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. For FDOT District Five, privately-operated sites are those sites within FDOT's right-of-way that were issued a DCP.				
	PERMITTEE SITES: Active construction sites	3	Project Solve	TKP Construction	Projects are resurfacing
	PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	106	Project Solve	TKP Construction	.
	PERMITTEE SITES: Percentage of active construction sites inspected	100%	Project Solve	TKP Construction	
	PRIVATE SITES: Active construction sites	0	N/A	N/A	No Private
	PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	0	N/A	N/A	
	PRIVATE SITES: Percentage of active construction sites inspected	0	N/A	N/A	
	Enforcement Action	0	Project Solve	TKP Construction	
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	18	106	TKP Construction	TKP Construction
	Permittee construction site plan reviewers		0	Construction	Construction

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 operators	0	N/A	N/A	
Part III.A.9 Summary	For activities required by Part III.A.9: Provide an evaluation of the Stormwater Management Program according to Part VI.B.3 of the permit.				
	Strengths: FTE Project Solve is a very efficient way to track construction projects.				
	Limitations: FTE uses CEI's to conduct SWPP inspections. NPDES Coordinator is not that involve, unless there is a problem.				
	SWMP revisions implemented to address limitations: Not 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.
		No proposed changes at this time.
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)
		No proposed changes at this time.

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
	3226C	Loxahatchee River	Fecal Coliform	<input checked="" type="checkbox"/> / <input checked="" type="checkbox"/>	91%	1	N93013	(Year 3 AR)	(Year 4 AR; N/A) if BPCP)
				<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				
			(Year 3 AR)	(Year 4 AR; N/A if BPCP)					
C.	Provide a brief statement as to the status of TMDL implementation according to Part VIII.B. of the permit (e.g. status of monitoring to validate WLA): FTE is participating in the LOX River (RAP)								





Put it in the trash can

**Don't let your Trash
End up here!**



**Don't Be a Litter Bug
Place your trash in the can!**







**Remember
to
Recycle!**





Don't be a litter bug



Put trash in its place.



**Don't let
your trash
end up
here.**



Put it in the can.





Florida Department of Transportation

RON DESANTIS
GOVERNOR

Florida's Turnpike Enterprise
P.O. Box 9828, Fort Lauderdale, FL 33310
954-975-4855

KEVIN J. THIBAUT, P.E.
SECRETARY

MS4 Permit No. FLS000018-004

Part V. – Monitoring Requirements; Sub-part A. – Assessment Program

Assessment Report Objective:

The objective of this assessment report is to provide information for the Florida's Turnpike Enterprise (FTE) to determine the overall effectiveness of its Stormwater Management Program (SWMP) in reducing stormwater pollutant loading for its Municipal Separate Storm Sewer System (MS4) to receiving water bodies.

Assessment Approach:

Florida's Turnpike Enterprise uses a two-part approach to evaluate water quality and pollutant loading within its discharge areas. This evaluation and response plan include using Palm Beach Counties ambient water quality station data in conjunction with Palm Beach County specific pollutant loading Event Mean Concentration (EMC) Value for major highways in the year 3 assessment. This approach allows FTE to; evaluate trends in pollutants loading from the MS4, evaluate trends in water quality (of discharge from the MS4), and identify portions of the MS4 to be targeted for loading reduction/corrective action.

Palm Beach County Monitoring Locations:

Based on the location of the outfalls of our MS4, eight monitoring stations have been selected. The following table identifies these monitoring stations, along with relevant information about each location.

Monitoring Station #	Location Description	Receiving Water Body	Parameters Sampled
C18G92	Palm Beach Co Sta	C-18	TN,TP,DO,CON,PH, Chl-a, Temp, Metals
C18S46	Palm Beach Co Sta	C-18	TN,TP,DO,CON,PH, Chl-a, Temp, Metals
38B	Palm Beach Co Sta	C-51	TN,TP,DO,CON,PH, Chl-a, Temp, Metals
37B	Palm Beach Co Sta	C-51	TN,TP,DO,CON,PH, Chl-a, Temp, Metals
C51S155	Palm Beach Co Sta	C-51	TN,TP,DO,CON,PH, Chl-a, Temp, Metals
27B	Palm Beach Co Sta	C-16	TN,TP,DO,CON,PH, Chl-a, Temp, Metals
27A	Palm Beach Co Sta	C-16	TN,TP,DO,CON,PH, Chl-a, Temp, Metals
31E	Palm Beach Co Sta	C-15	TN,TP,DO,CON,PH, Chl-a, Temp, Metals
31C	Palm Beach Co Sta	C-15	TN,TP,DO,CON,PH, Chl-a, Temp, Metals

PBC Water Quality Monitoring Stations



Figure 1.

C-18 Basin:

PBC H2O Sampling Stations G92 & S46

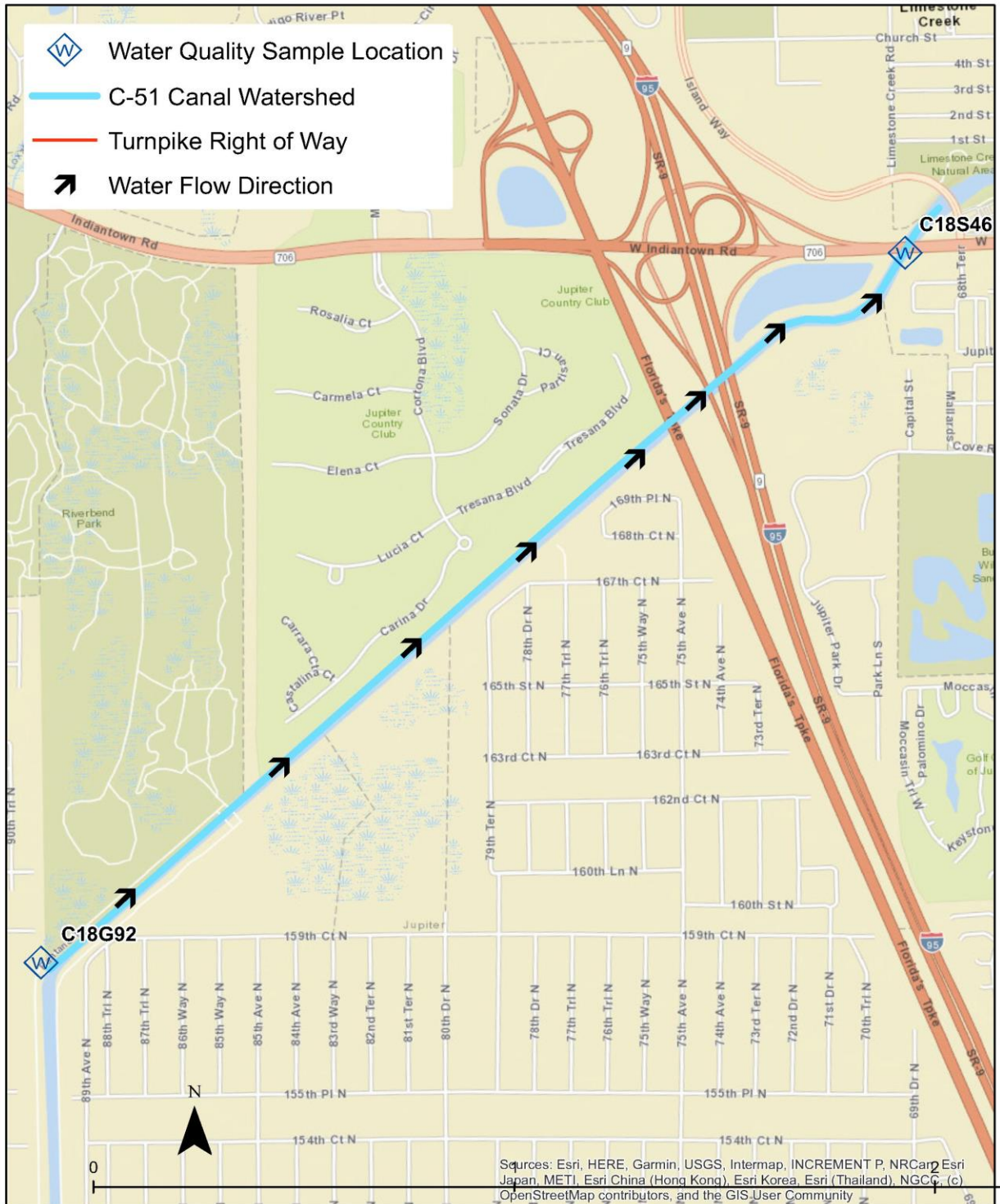
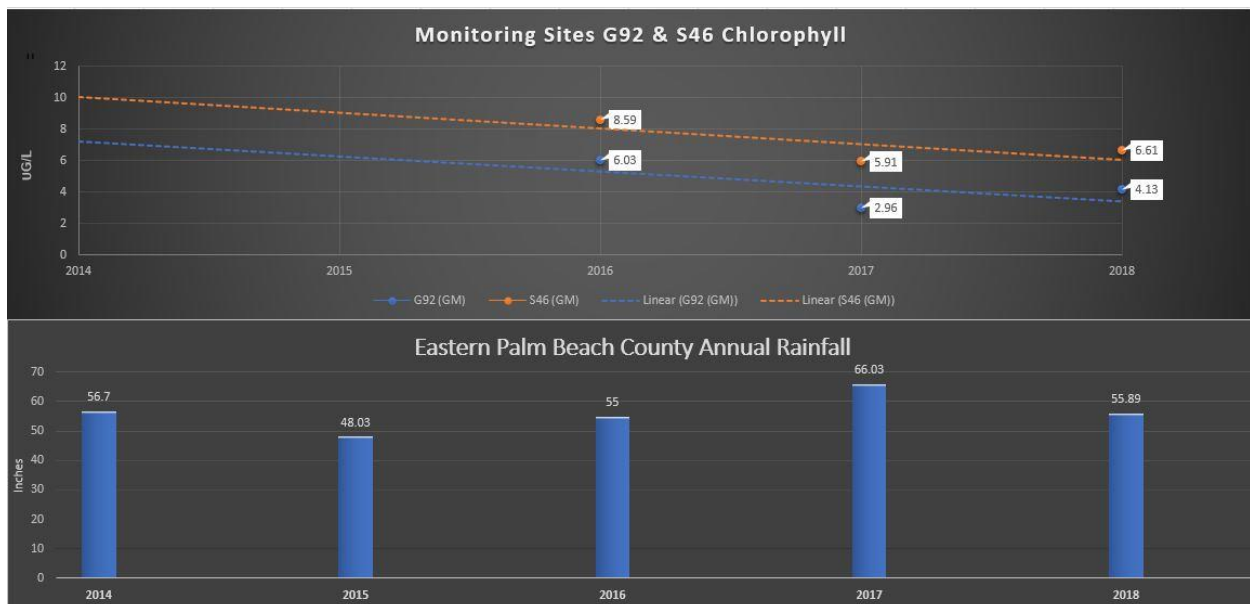


Figure 2.

C-18 Basin:

The C-18 Canal flows north-south, through the C-18 basin, an area of approximately 105.8 square miles (Figure 2). The canal is an extension of the Southwest Fork of the Loxahatchee River. The S-46 controls surface water elevations in C-18. The primary functions of the C-18 canal and control structures are flood protection, water supply, and water table maintenance. These features are also used to augment flows in the Northwest Fork of the Loxahatchee River. Water is supplied to the Northwest Fork of the Loxahatchee River from the C-18 by way of the G-92 structure and canals of the South Indian River Water Control District (SIRWCD).

Graph 2. C-18 Basin Monitoring stations G92 & S46 Chlorophyll:



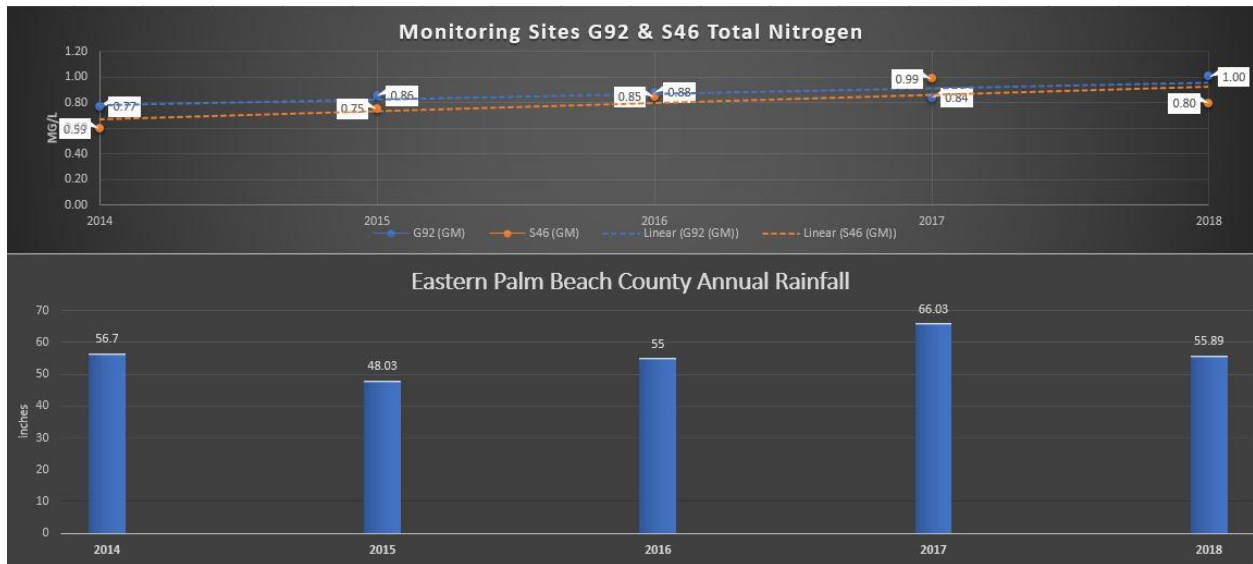
Evaluation:

Monitoring station G-92, west or upstream of FTE in the Jupiter Farms area provides background monitoring for chlorophyll-a values before the influence of FTE. Monitoring station G-92 had chlorophyll-a values ranging from 1.6 μ /L to 10.9 μ /L and a geometric mean of 4.19 μ /L over the 3-year monitoring period. Unfortunately, sample values are missing between 2014 and 2015, not allowing for a linear projection. However, available data years 2016-2018 shows a slight decrease of chlorophyll-a levels. This could potentially be due to better BMPs, gate operation, and increase awareness in urbanized areas.

Monitoring station S-46 is located east or downstream of FTE and north of Indiantown Rd had chlorophyll-a values ranging from 2.5 μ /L to 15.8 μ /L and a geometric mean of 6.95 μ /L. Headwaters show us increased chlorophyll-a values along the time scale. Based on the data chlorophyll-a is higher at the monitoring station S-46 east of FTE than station G-92. The highest value was 15.8 μ g/L, below water quality standard of 20 μ g/L exceedance for freshwater Class III systems.

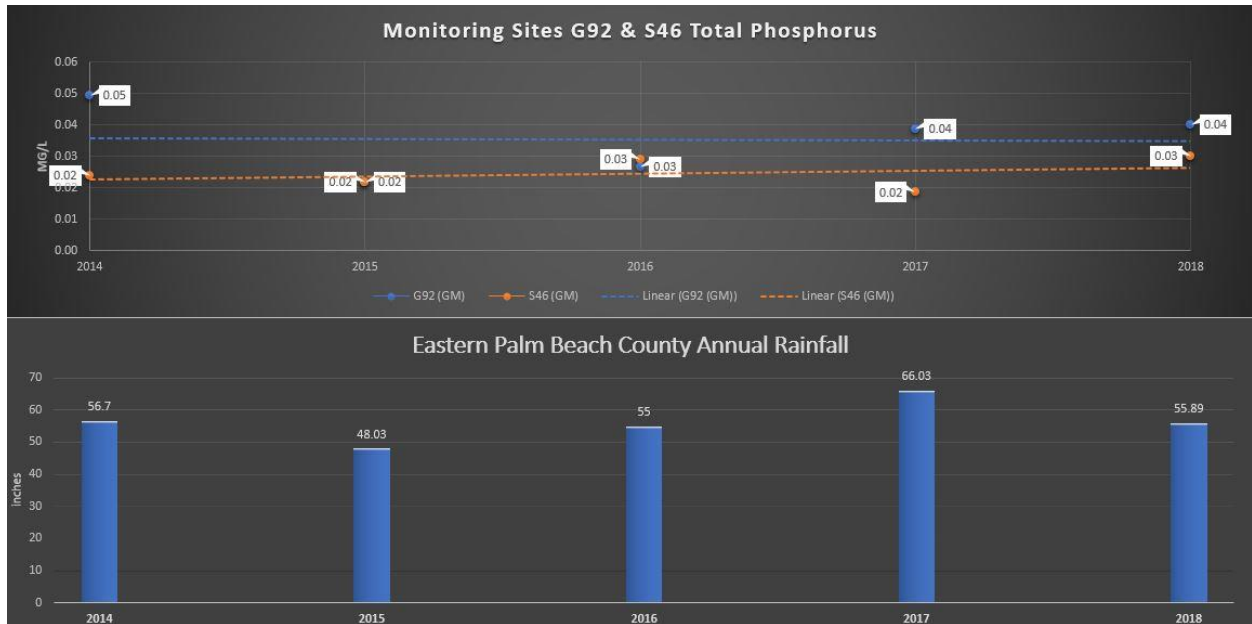
Chlorophyll-a values can increase due to many contributing factors including increased runoff, flow, rain events, and nutrient input. FTE does have a major outfall discharging directly to this water body and may be contributing to chlorophyll-a values. However, this runoff may be associated with a golf course that is located between these two monitoring points. This runoff could be contributing to the elevated chlorophyll-a levels. If this is the contributing factor, FTE does not have the ability to mandate reduction of these levels and cannot enforce implementing standard best management practices (BMPs)

Graph 3. C-18 Basin Monitoring stations G92 & S46 Total Nitrogen:



In graph 2, both monitoring stations, G-92 and S-46, show a slight increase of total nitrogen (TN) from 2014-2018. Monitoring station G-92 had TN monitoring values ranging from 0.70 mg/L to 1.51 mg/L and a geometric mean of 0.86 mg/L. Monitoring station S-46 had TN values ranging from 0.04 mg/L to 1.26 mg/L and a geometric mean of 0.78 mg/L. Chlorophyll-a data showed a decrease trend while TN shows a slight increase. Higher or increasing levels of TN do not necessarily correlate with algal blooms or high chlorophyll-a levels; however, rainfall, total phosphorus (TP) and illicit discharges can cause them.

Graph 4. C-18 Basin Monitoring stations G92 & S46 Total Phosphorus:



Monitoring station G-92, west or upstream of FTE, appears to have a slight increase in total phosphorus (TP) from 0.05 mg/L to 0.04 mg/L. TP monitoring values at station G-92 range from 0.002 mg/L to 0.18 mg/L with a geometric mean of 0.03 mg/L over the 5-year monitoring period. This could be attributed to water releases from Lake Okeechobee and increased annual rainfall. It appears that rainfall increased annually in 2017. Monitoring station S46, east or downstream of FTE has a slightly increasing TP trend with monitoring values ranging from 0.01 mg/L to 0.039 mg/L and a geometric mean of 0.024 mg/L. This could be attributed to increased rainfall. However levels are very low. This could be attributed to better BMP implementation by communities and recreation areas. BMP include fertilizer reductions and routine stormwater structural maintenance .

To date, FTE has not increased surface area runoff through road widening projects thus maintaining the amount impervious surface in the study area. FTE does not use fertilizer in its routine maintenance plan. Fertilizer is only used if needed in aiding a dying tree or for a short period of time during bold landscaping projects.

NPDES Major Outfall N93014 - Discharge to C-18 Canal

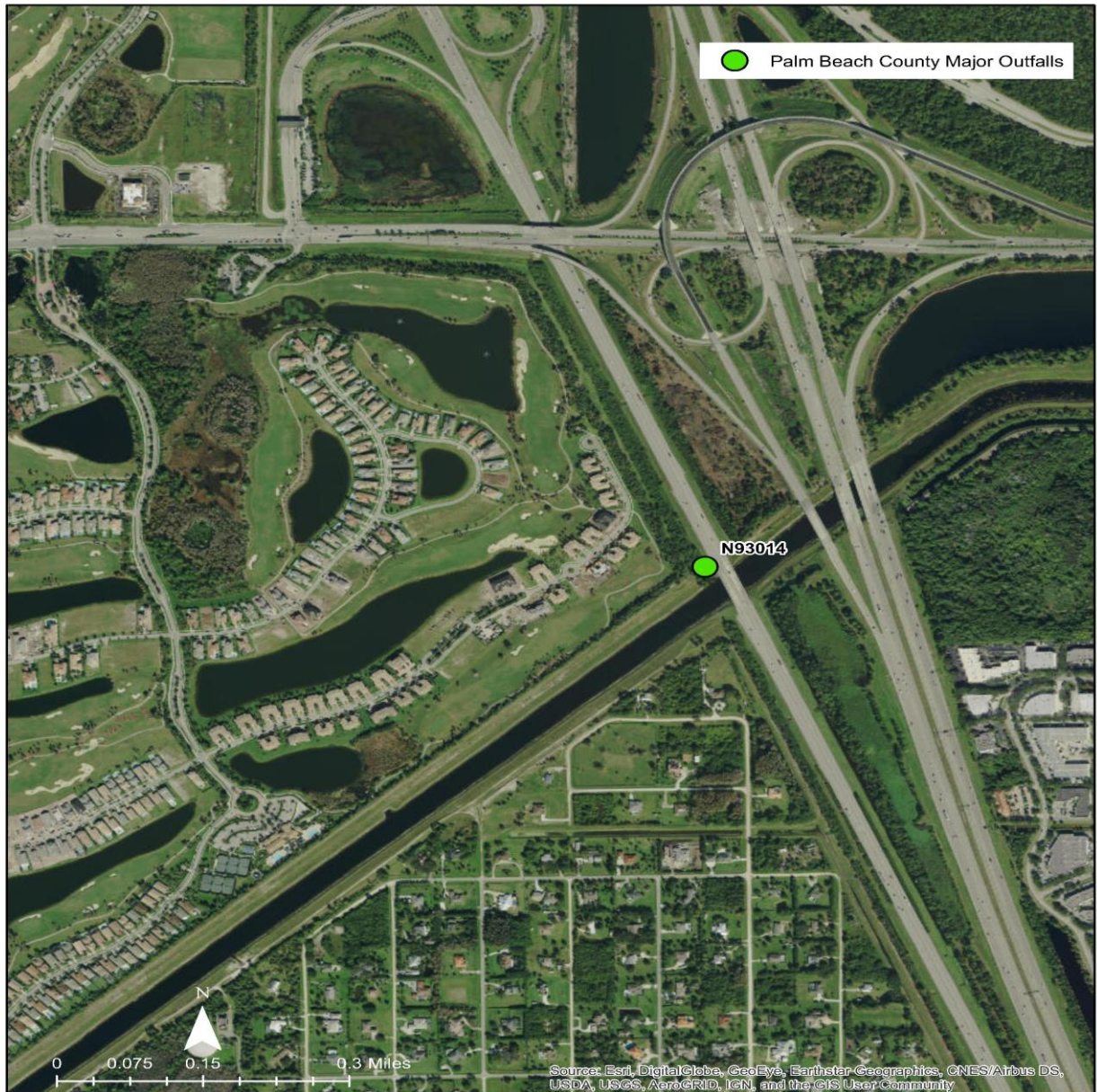


Figure 3.

NPDES Major Outfall N93014 Discharge to C-18 Canal

The outfall N93014 discharging to the C-18 is a ditch canal/swale and is located southbound on FTE approximately 2,300 feet long and 30 feet across. It is partially hydrated depending on the season. This ditch canal/swale also receives stormwater from the northbound ditch canal /swale approximately 1,800 feet long and 20 feet across. The two ditch canals /swales are connected by one cross drain (Figure 3)

C-51 Basin:

PBC H2O Sampling Stations 37B, 38B & S155

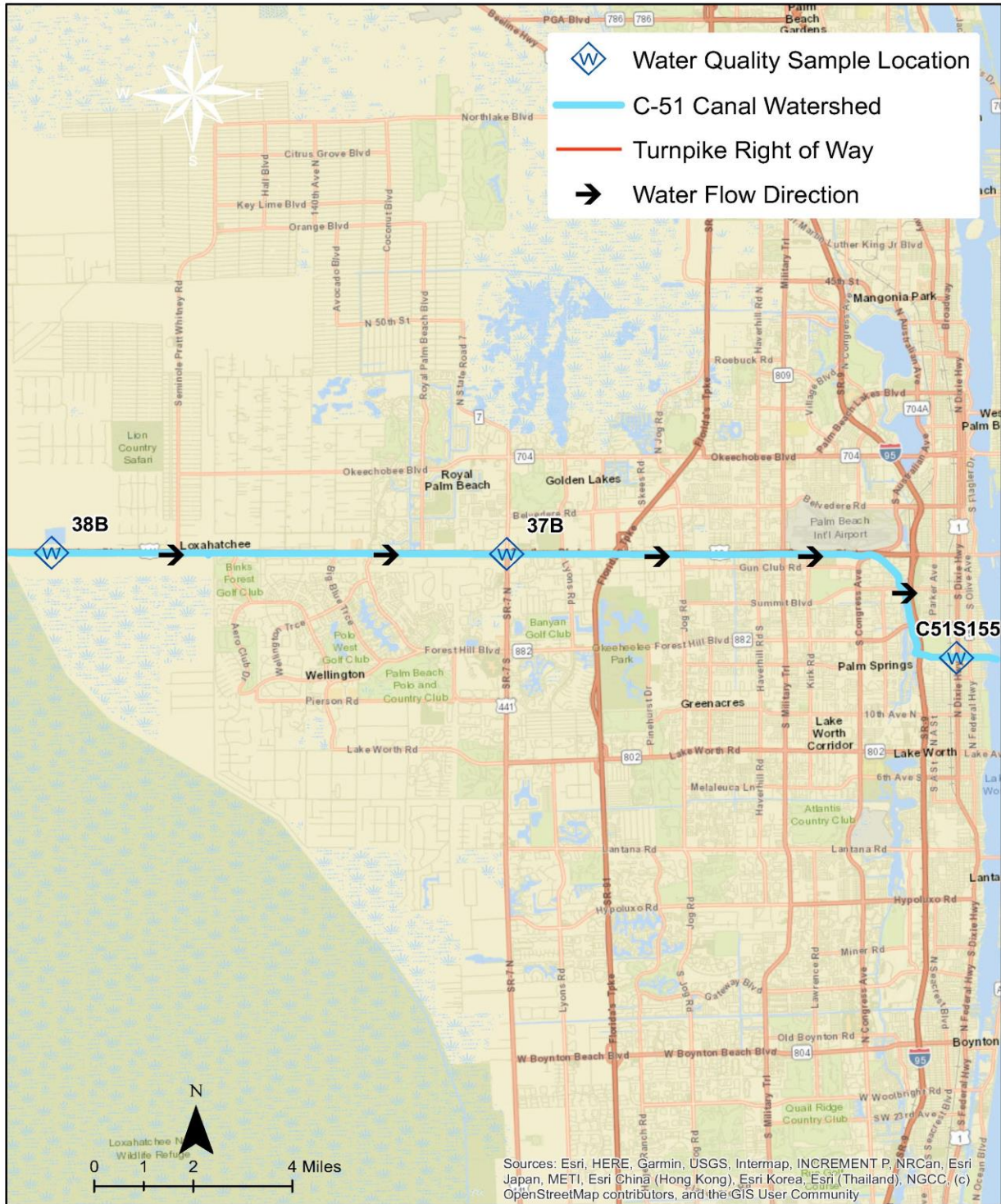


Figure 4.

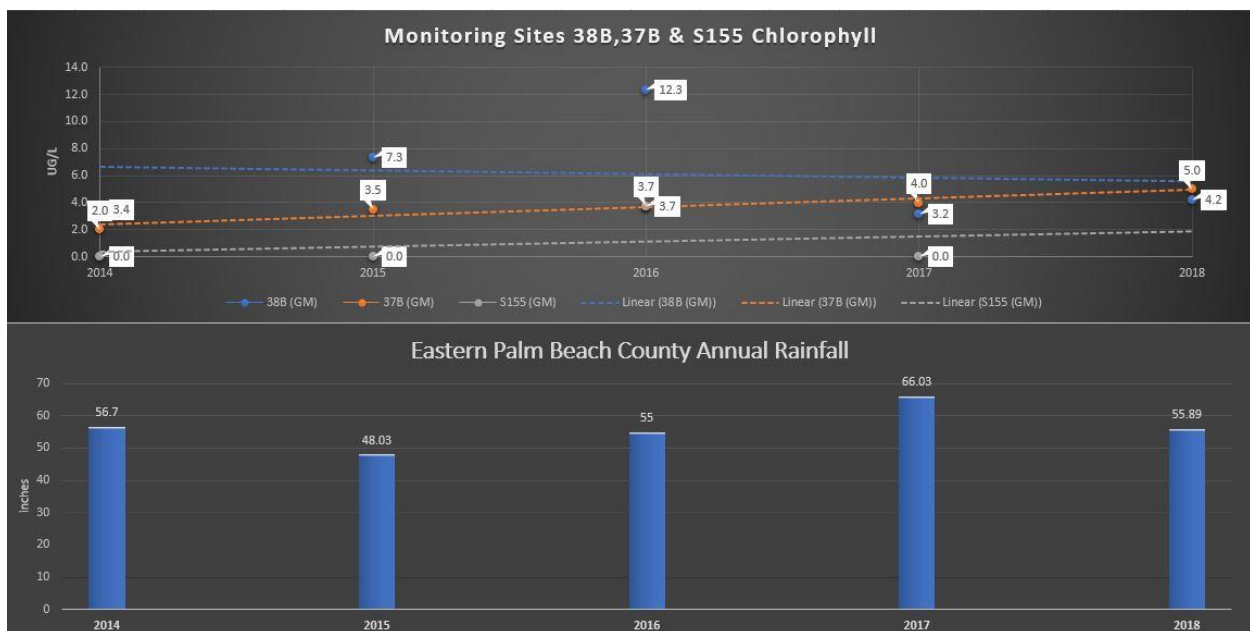
C-51 Basin:

The SFWMD C-51 Basin consists approximately of the area south of Okeechobee Boulevard to Lake Worth Road and west of I-95 to State Road 7 (Figure 4). The C-51 Basin also includes areas west of State Road 7 from Okeechobee Boulevard to south of Boynton Beach Boulevard. The total drainage area within the C-51 Basin is approximately 65 square miles.

Drainage of the C-51 Basin is generally accomplished by a system of west/east lateral canals (L-1 to L-12) and by six north/south equalizing canals (E-1, E-2, E-2W, E-2E, E-3 and E-4). The SFWMD C-51 Canal serves as the major collector of flow for this basin. Runoff is conveyed from the interior network of laterals to the equalizing canals. The equalizing canals discharge from the south and north into the C-51 Canal, which flows east to the Lake Worth Lagoon.

Monitoring stations were chosen both upstream and downstream of the FTE to help determine stormwater discharge contributions to water quality.

Graph 6. C-51 Basin Monitoring stations 38B, 37B & S155 Chlorophyll

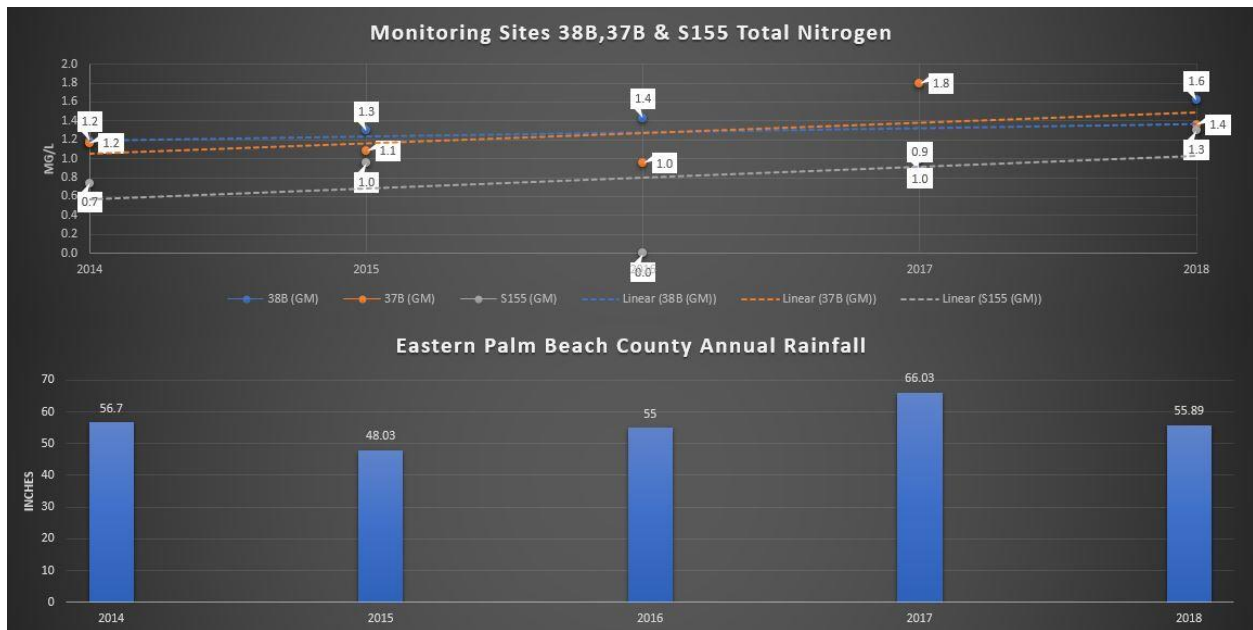


Evaluation:

Monitoring Station 38B is the most western or upstream site from FTE. Monitoring data at this site has chlorophyll-a values ranging from 2.1 µ/L to 52 µ/L with a geometric mean of 5.29 µ/L over the 5-year monitoring period. Monitoring station 37B is approximately located in the center of Palm Beach County and has lower urban congestion compared to the eastern portions of the county. Here the chlorophyll-a geometric means are lower than at station 38B, with values ranging from 0.71 µ/L to 16.1 µ/L and a geometric mean of 3.49 µ/L over the 5-year monitoring period. Chlorophyll-a levels are dropping as they move west to east or downstream. MS4 maintenance and BMPs could be attributed to the reduction.

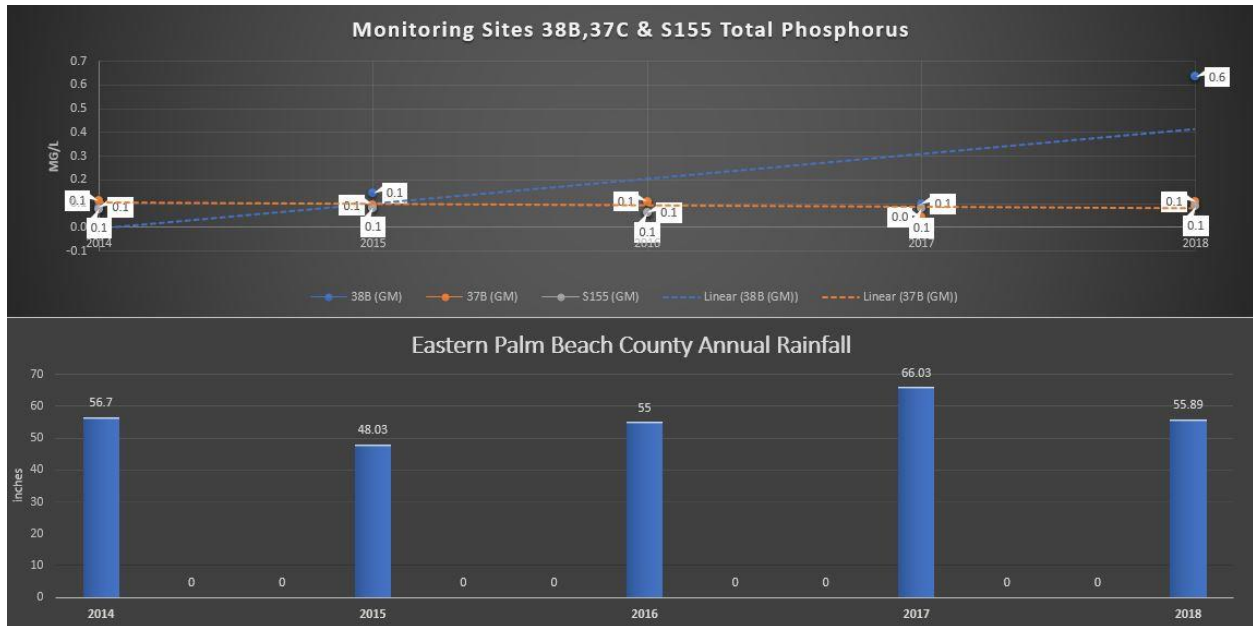
Monitoring station S155 is in the eastern section of Palm Beach County. This is the county's most urbanized area with the largest population. Water quality monitoring data for chlorophyll-a at station S155 has data from 2013 and 2014. With the data available, chlorophyll-a levels appear to be very low ranging from 0.02 μL to 0.05 μL and a geometric mean of 0.02 μL . This would suggest that even with heavy population density the chlorophyll-a geometric mean values appear to be trending down as water moves through urbanized Palm Beach County. Both stations 37B and S155 have lower chlorophyll-a values than station 38B entering the system. There were values above 20 $\mu\text{g/L}$ for chlorophyll-a.

Graph 7. C-51 Basin Monitoring stations 38B, 37B & S155 Total Nitrogen



All three monitoring stations 38B, 37B & S155 show increasing trends of TN. Station 38B upstream of FTE had TN monitoring values ranging from 0.8 mg/L to 1.94 mg/L and a geometric mean of 1.25 mg/L over the 5-year monitoring period. Monitoring station 37B still upstream of FTE and in the center of Palm Beach County has TN values ranging from .08 mg/L to 2.5 mg/L with a geometric mean of 1.23mg/L. Monitoring station S155 east or downstream of FTE had monitoring values ranging from 0.56 mg/L to 1.85 mg/L and a geometric mean of 0.97 mg/L. Both chlorophyll-a and TN show increasing trends. This could be due to increase in annual rainfall and fertilizer usage for both homeowners and landscape professionals.

Graph 8. C-51 Basin Monitoring stations 38B, 37B & S155 Total Phosphorus



All monitoring station 38B shows an increasing trend of TP. While monitoring stations 37B & S155 Show no change over the 5- year period. Monitoring station 38B, to the west or upstream of FTE, shows the largest increase with TP values ranging from 0.1 mg/L to 0.81 mg/L and a geometric mean of 0.13 mg/L over the 5-year monitoring period, followed by 37B with TP values ranging from 0.005 mg/L to 0.81 mg/L and a geometric mean of 0.087 mg/L over the 5-year monitoring period. Lastly S155 with TP values ranging from 0.03 mg/L to 0.15 mg/L and a geometric mean of 0.1 mg/L over the 5-year monitoring period. The increase at monitoring station 38B could be due to agriculture within the basin as well as water released from Lake Okeechobee. This increase in total phosphorus could increase chlorophyll-a levels in the future. As more data becomes available, comparisons between the two parameters will be evaluated.

NPDES Major Outfall N93014 Discharge to C-51 Canal

NPDES Major Outfall N93014 - Discharge to C-18 Canal



Figure 5.

FTE Major outfall N93012 discharges water from SB ditch canal to the C-51. (Figure 5) Stormwater is first treated through linear stormwater features such as swales and structural BMPs like catch basins and ponds before discharged into the C-51 canal. Drainage swales are inspected, cleaned and mowed by FTE. Catch basins and stormwater pipes are cleaned and maintained through routine maintenance activities.

C-16 Basin:

PBC H2O Sampling Stations 27A & 27B

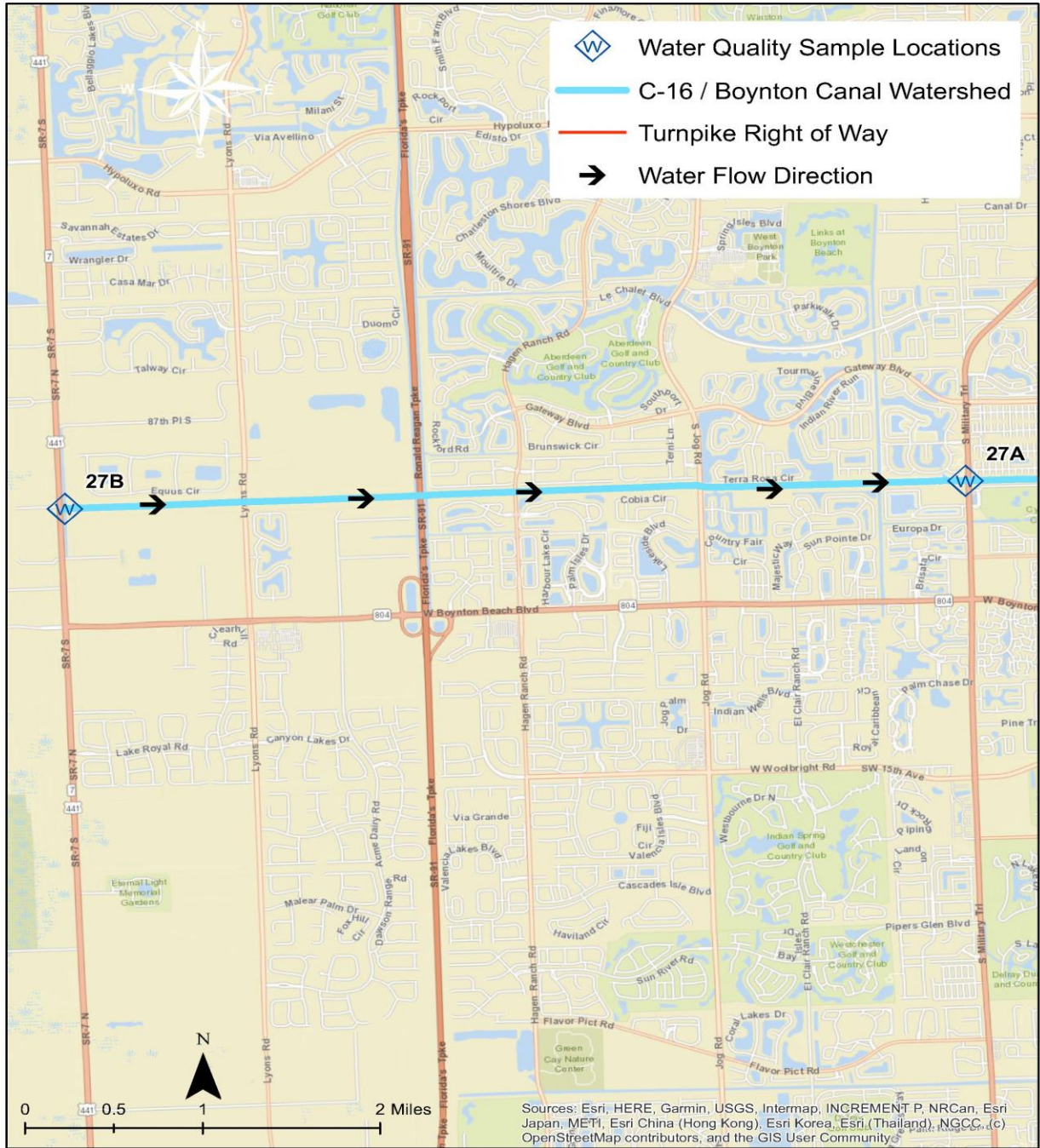
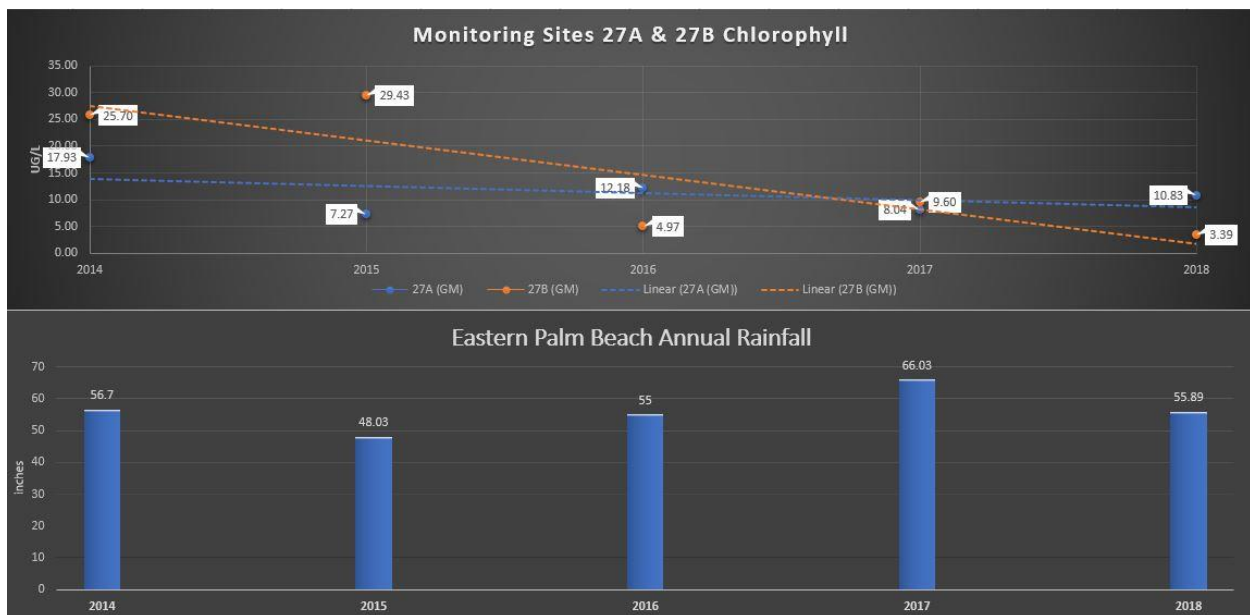


Figure 6.

C-16 Basin:

The C-16 Basin consists generally of the area south of Boynton Beach Boulevard to Lake Worth Road and east of State Road No. 7 to I-95 (Figure 6). The total drainage area within the C-16 Basin is approximately 65 square miles. Drainage of the C-16 Basin is accomplished by a system of west/east lateral canals (L-13 to L-24) and by five north/south equalizing canals (E-1, E-2W, E-2E, E-3 and E-4). This system of canals includes the C. Stanley Weaver Canal and the L-14 Canal which, along with the E-4 Canal serve as the major collectors of flow for this basin. Runoff is conveyed from the interior network of canals and laterals to either the C. Stanley Weaver Canal or the L-14 Canal. Flow from the L-14 Canal discharges to the E-4 Canal, which is partially a natural channel within Lake Osborne. The C. Stanley Weaver Canal and the E-4 Canal discharge into the Intracoastal Waterway via the C-16 Canal, which is an eastern extension of the C. Stanley Weaver Canal.

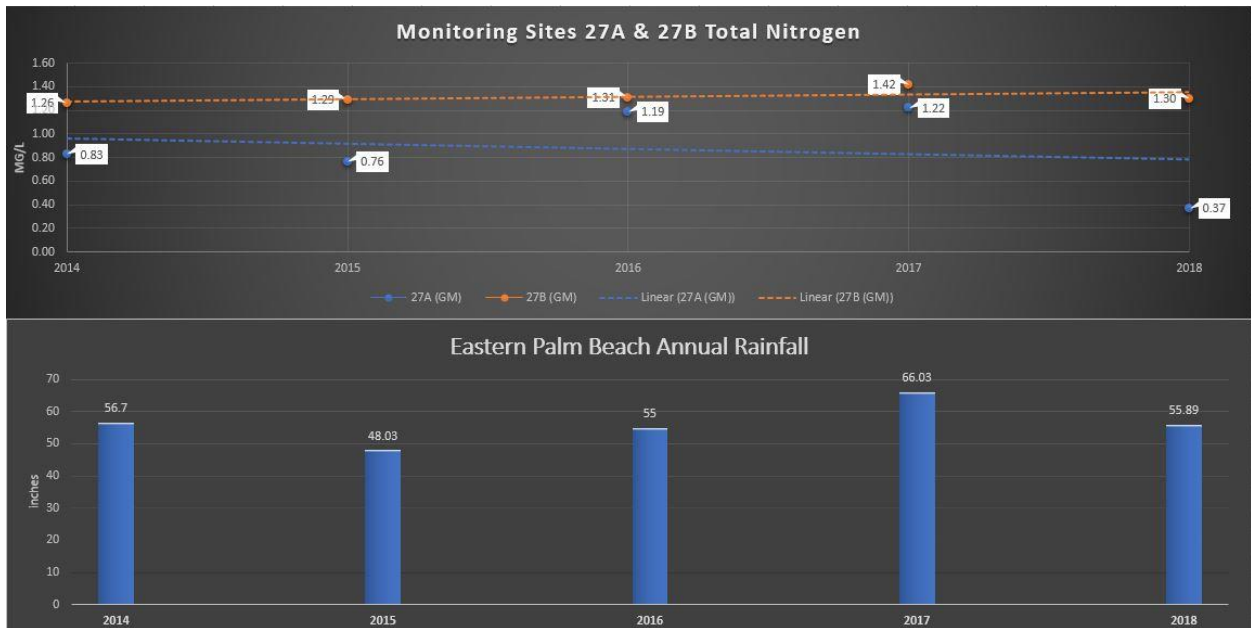
Graph 10. C-16 Basin Monitoring stations 27B & 27A Chlorophyll



Evaluation:

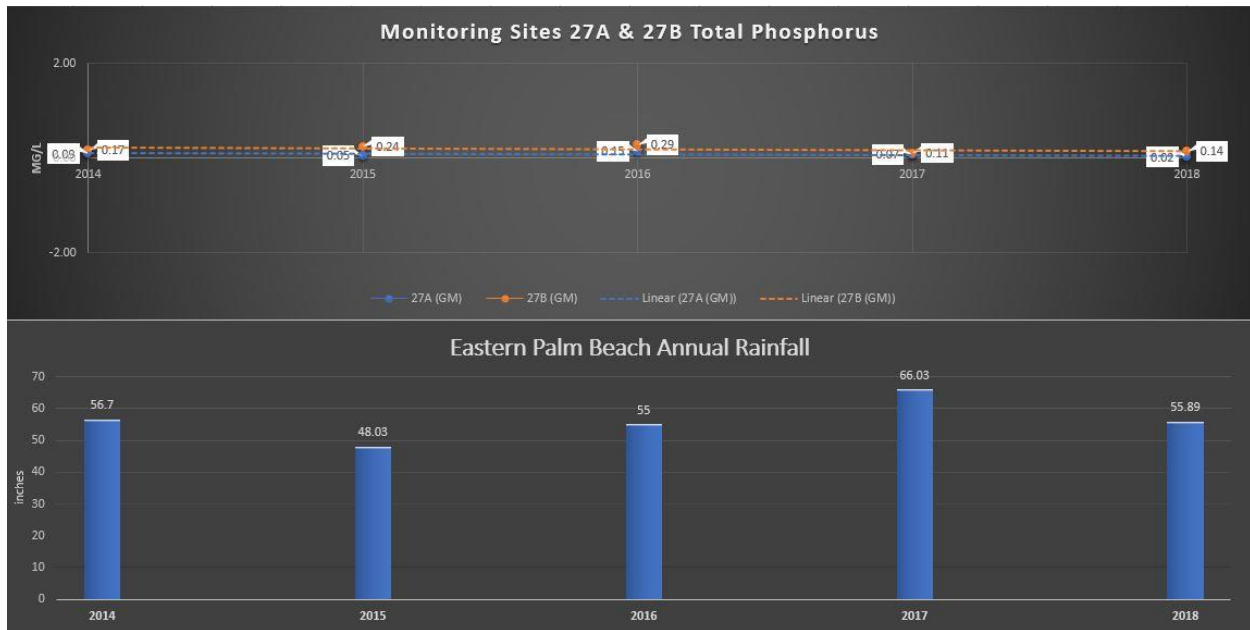
Monitoring station 27B west or upstream of FTE shows a decreasing trend in Chlorophyll-a with values ranging from 0.5 $\mu\text{g/L}$ to 50.1 $\mu\text{g/L}$ and a geometric mean of 10.4 $\mu\text{g/L}$ over the 5-year monitoring period. Monitoring station 27A east or downstream of FTE, also has a decreasing chlorophyll-a trend with values ranging from 1.6 $\mu\text{g/L}$ to 54.6 $\mu\text{g/L}$ with a geometric mean of 10.6 $\mu\text{g/L}$ over the 5-year monitoring period. Monitoring stations 27B has 6 chlorophyll-a sample values over 20 $\mu\text{g/L}$. Monitoring station 27A has 4 chlorophyll-a sample values over 20 $\mu\text{g/L}$. this is a great improvement from what historical values were in the last report. While investigating the area from aerial photography I observed a horse track, a golf course and many private communities with lakes/ponds that were located throughout the area. These areas could be contributing to elevated levels through activities such as fertilizer application and landscaping which may result in higher chlorophyll-a levels.

Graph 11. C-16 Basin Monitoring stations 27B & 27A Total Nitrogen



Monitoring station 27B has a decreasing TN trend, west or upstream of FTE with TN values ranging from 0. mg/L to 2.34 mg/L and a geometric mean of 1.31 mg/L over the 5-year monitoring period. Monitoring station 27A east or downstream of FTE is showing a decreasing TN trend with values ranging from 0.9 mg/L to 2.11 mg/L and a geometric mean of 0.80 mg/L over the 5-year monitoring period. Chlorophyll-a trends are not consistent with TN trends.

Graph 12. C-16 Basin Monitoring stations 27B & 27A Total Phosphorus



Both monitoring stations show a decreasing trend in total phosphorus levels. Station 27B west or upstream of FTE has the highest TP values, ranging from 0.03 mg/L to 0.74 mg/L and a geometric mean of 0.17 mg/L over the 5-year monitoring period. Monitoring station 27B has a slight increasing TP trend from 2017-2018. Monitoring station 27A east or downstream of FTE has a decreasing TP trend with values ranging from 0.003 mg/L to 0.21 mg/L and a geometric mean of 0.06 mg/L.

FTE has no major outfall on the C-16 Canal.

C-15 Basin:

PBC H2O Sampling Stations 31E & 31C

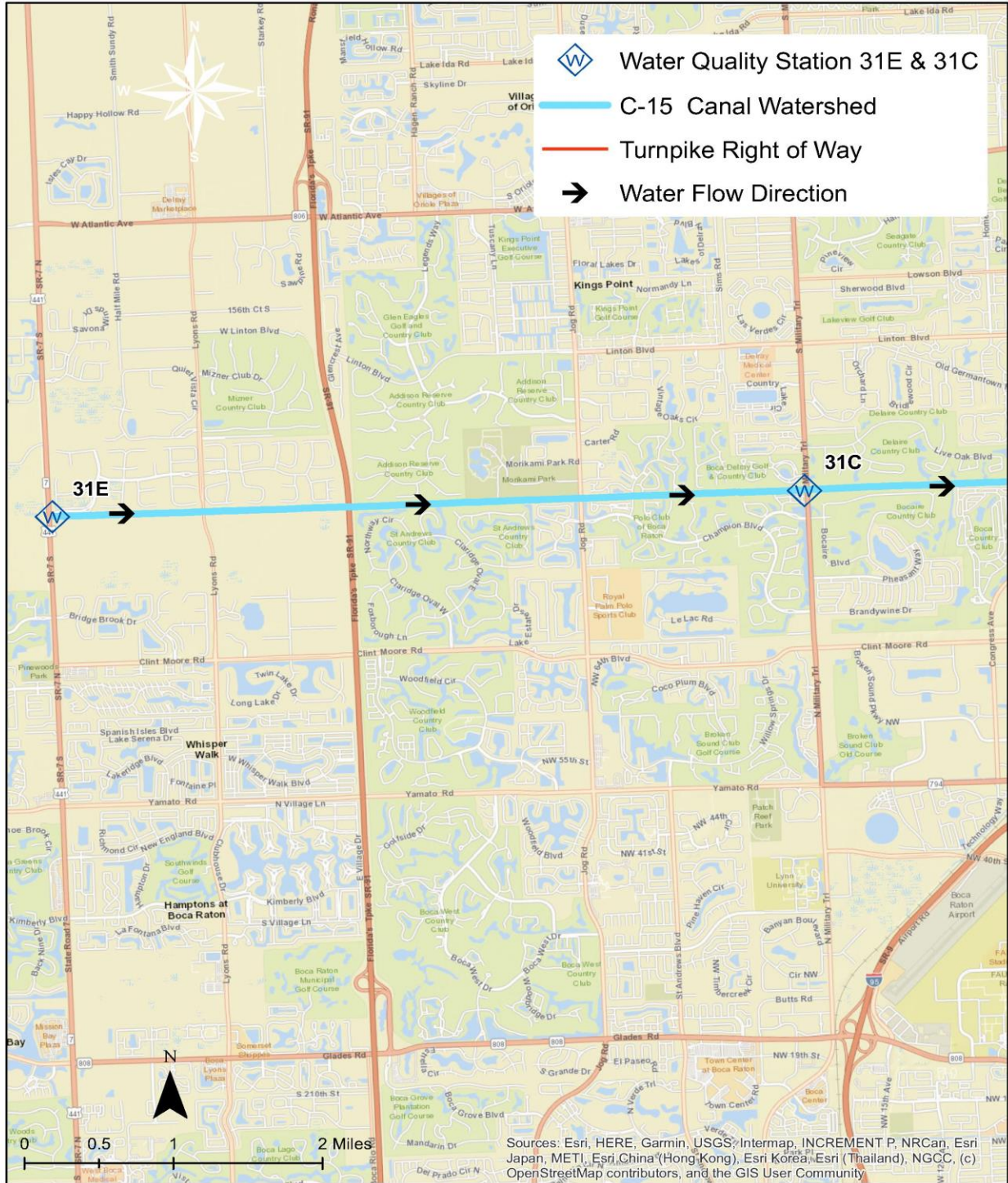
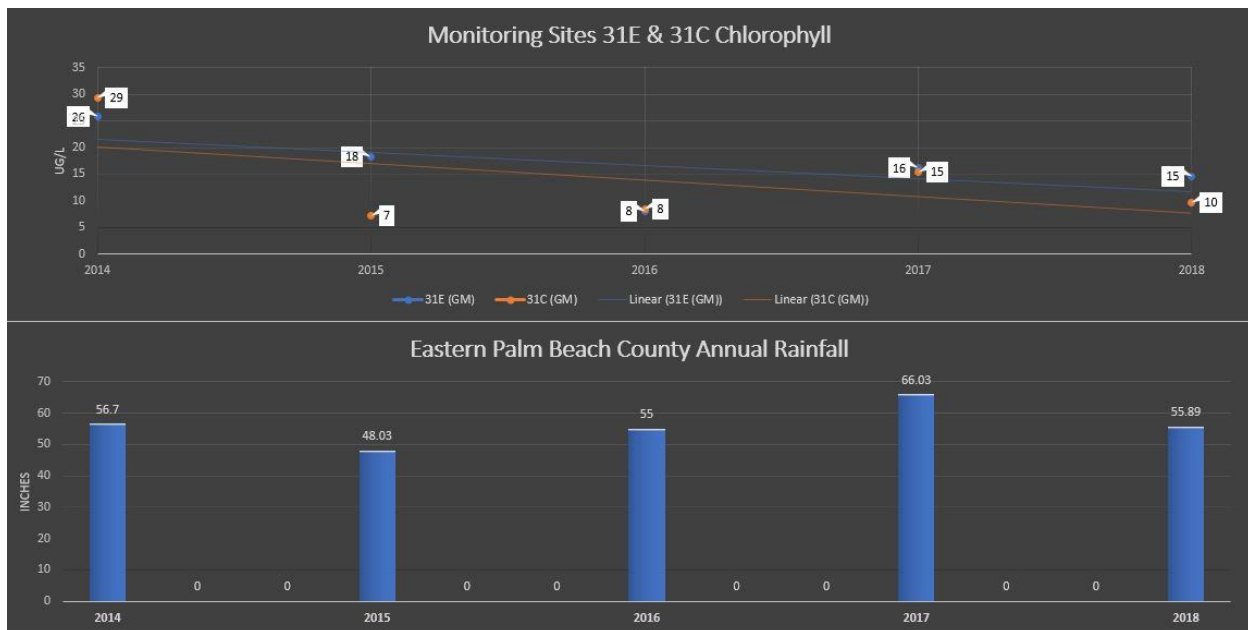


Figure 7.

C-15 Basin:

The C-15 Basin is defined generally as the area south of Boynton Beach Boulevard to Yamato Road and west of I-95 to State Road No. 7. (figure 7). The total drainage area within the C-15 Basin is approximately 55 square miles. Drainage of the C-15 Basin is accomplished by a system of west/east lateral canals (L- 25 to L-42) and by five south/north equalizing canals (E-1, E-2W, E-2E, E-3 and E-4). Laterals L-30 and L-38 and the equalizing canal E-4 serve as the major collectors of flow for this basin. Runoff is conveyed from the interior network of canals to either the L-30 or L-38 Canal. Flow from the L-30 Canal is to the E-4 Canal. The E-4 Canal is partially a natural channel and runs through Lake Ida. The E-4 and L-38 Canals discharge into the Intracoastal Waterway via the C-15 Canal, which is an eastern extension of the L-38 Canal.

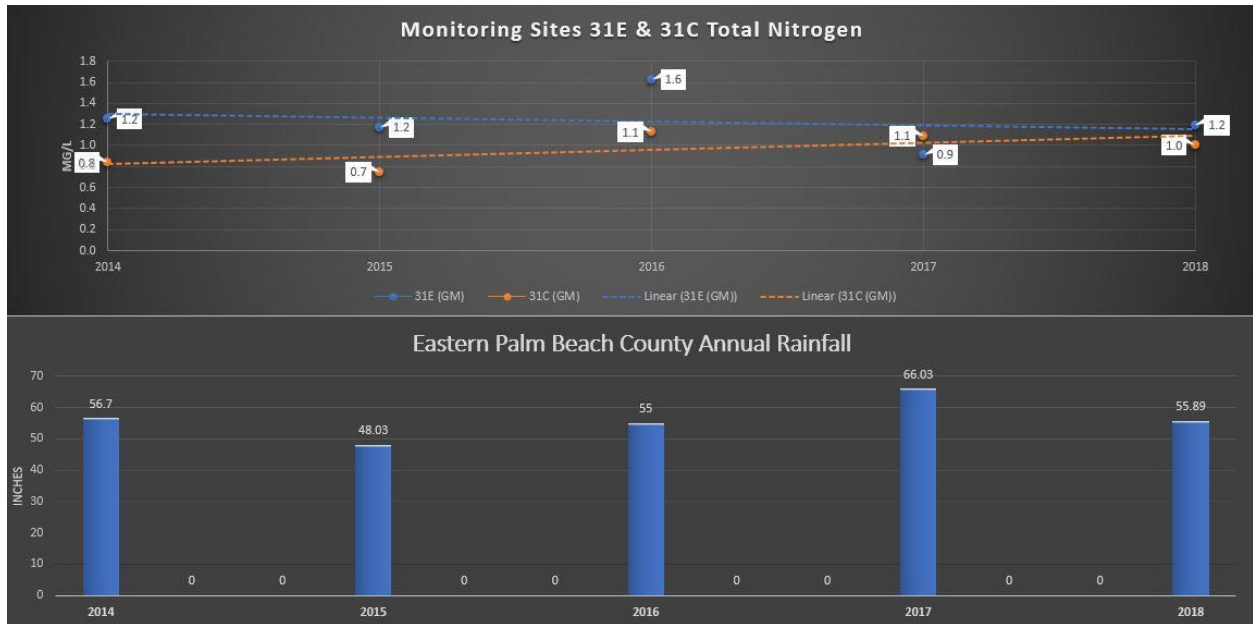
Graph 14. C-15 Basin Monitoring stations 31E & 31C Chlorophyll



Evaluation:

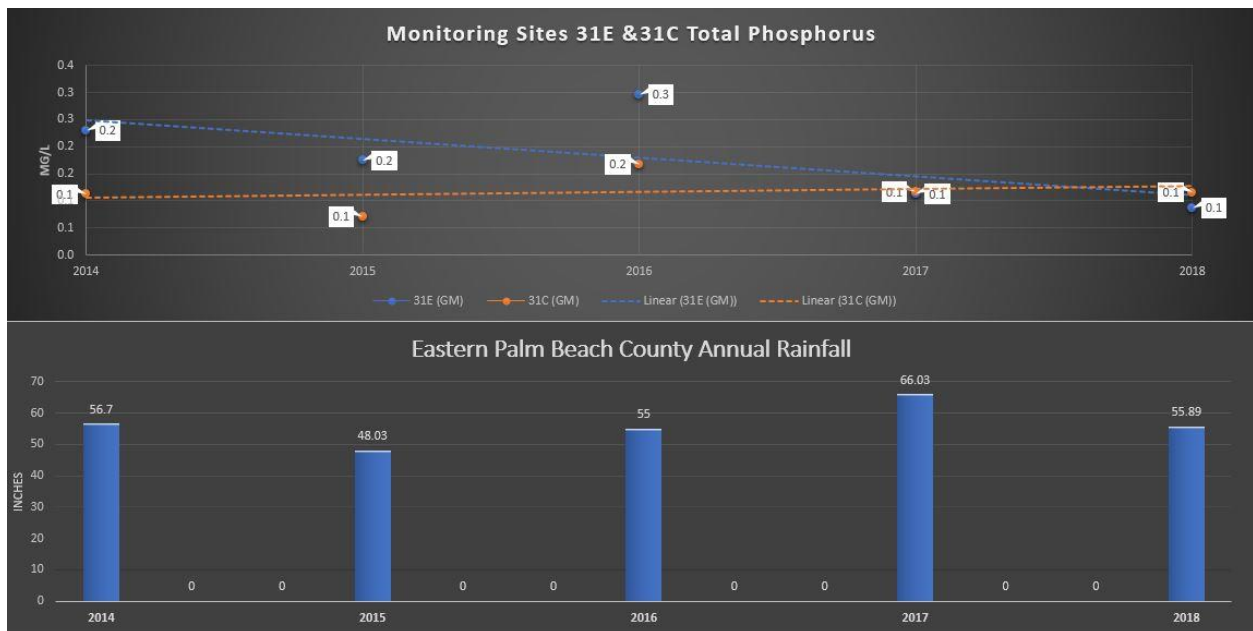
Monitoring station 31E west or upstream of FTE has an overall decreasing chlorophyll-a trend with variability during the evaluation period. Monitoring station 31E chlorophyll-a values ranged from 3 µ/L to 70.9 µ/L and a geometric mean of 15.47 µ/L over the 5-year monitoring period. 12 of 23 chlorophyll-a annual sample values were at or above 20 µ/L, just meeting or exceeding standards. Monitoring station 31C east or downstream of FTE has a decreasing chlorophyll-a trend with values ranging from 3 µ/L to 58 µ/L and a geometric mean of 12.13 µ/L over the 5-year monitoring period. Monitoring station 31C had 9 of 22 sample values at or above 20 µ/L. Station 31C is in the suburban area of Palm Beach County and chlorophyll-a values are decreasing over time and are lower than the water values upstream. Both monitoring stations have shown a decrease in chlorophyll-a levels from 2014-2018. This may be due to programs implemented to help reduce nutrient load.

Graph 15. C-15 Basin Monitoring stations 31E & 31C Total Nitrogen



Monitoring stations 31E shows a decreasing trend in total nitrogen. Monitoring station 31E west or upstream of FTE had TN values ranging from 0.39 mg/L to 2.4 mg/L with a geometric mean of 1.20 mg/L over the 5-year monitoring period. Monitoring station 31C east or downstream of FTE showed an increasing Trend in TN. TN values ranging from 0.62 mg/L to 2.19 mg/L with a geometric mean of 0.94 mg/L. TN follows the decreasing chlorophyll-a trend at site 31C. Station 31E had higher TN values compared to downstream in the more urbanized area.

Graph 16. C-15 Basin Monitoring stations 31E & 31C Total Phosphorus



Monitoring station 31E west or upstream of FTE had TP values ranging from 0.01 mg/L to 0.61 mg/L and a geometric mean of 0.16 mg/L. Monitoring station 31E has elevated TP values with only a few mean values at or close to .04 mg/L. However, monitoring station 31 has a downward trend. Monitoring station 31C east or downstream of FTE had TP values ranging from 0.07 mg/L to 0.21 mg/L and a geometric mean of 0.11 mg/L. The trend has no change over the 5-year monitoring period with Geometric means of 0.1 mg/L.

Pollutant Loading Estimates

One of the requirements of the permit is for average annual pollutant loading estimates to be made during year three of each permit cycle. Event mean concentration (EMC) estimates are to be provided for six parameters. The six parameters identified by the FDEP are five-day biochemical oxygen demand (BOD5), total copper (Cu), total nitrogen (as N) (TN), total phosphorus (TP), total suspended solids (TSS), and total zinc (Zn), all in the units of (mg/L). Pollutant loading models can be used as a tool to compare the effects of varying contributing area conditions over a time interval. The permit allows and the group modeled pollutant loading on watershed basis.

During year three, a pollution loading model was developed as a joint activity by the Palm Beach County MS4 group.

FTE's MS4 is within seven watersheds: C-15, C-16, C-17, C-18, C-51, Intracoastal Waterway North (ICWWN) and Loxahatchee (Lox). Figure 8 graphically depicts these watersheds. Summary tables below provide the estimated loading from FTE MS4 for each basin for both 2013 and 2018. The corresponding tables for each basin can be found in the joint pollutant loading report.

Cycle 3 Pollutant Loading

Watersheds	BOD (lb/yr)	TSS (lb/yr)	TP (lb/yr)	TN (lb/yr)	CU (lb/yr)	ZN (lb/yr)	Area (ac.)
C-15	9,961	44,518	516	3,744	50	139	331.67
C-16	10,663	38,806	555	4,293	37	104	397.17
C-17	9,070	40,438	440	3,257	45	139	286.31
C-18	10,559	48,617	619	4,550	55	126	448.91
C-51	13,190	44,252	537	4,453	54	207	437.88
ICWWN	1,369	2,330	43	449	4	19	52.23
Lox.	7,341	32,013	365	2,722	36	102	267.99
Totals	62,153	250,974	3,075	23,468	281	836	2,222.46

Cycle 4 Pollutant Loading

Watersheds	BOD (lb/yr)	TSS (lb/yr)	TP (lb/yr)	TN (lb/yr)	CU (lb/yr)	ZN (lb/yr)	Area (ac.)
C-15	9,952	44,477	516	3,742	50	139	331.67
C-16	10,663	38,806	555	4,293	37	104	397.17
C-17	8,599	39,875	434	3,167	44	130	286.31
C-18	10,483	48,382	616	4,525	55	125	448.91
C-51	13,109	44,096	535	4,436	54	206	437.88
ICCWN	1,334	2,280	42	443	4	19	52.23
Lox.	7,341	32,013	365	2,772	36	102	267.99
Totals	61,481	249,929	3,063	23,378	280	825	2,222.16

Total and Percent Reduction of Load Summary

Basin	BOD (lb/yr)	TSS (lb/yr)	TP (lb/yr)	TN (lb/yr)	CU (lb/yr)	ZN (lb/yr)
Cycle 3 Totals	62,153	250,974	3,075	23,468	281	836
Cycle 4 Totals	61,481	249,929	3,063	23,378	280	825
Public education 4%	2,459	9,997	122	935	11	33
Street Sweeping	0	0	196	360	0	0
Total Load reductions	2,459	9,997	318	1,295	11	33
Adjusted total Loading cycle 4	59,022	239,932	2,745	22,083	269	792
Percent Reductions	4	4	10.3	5.5	4	4

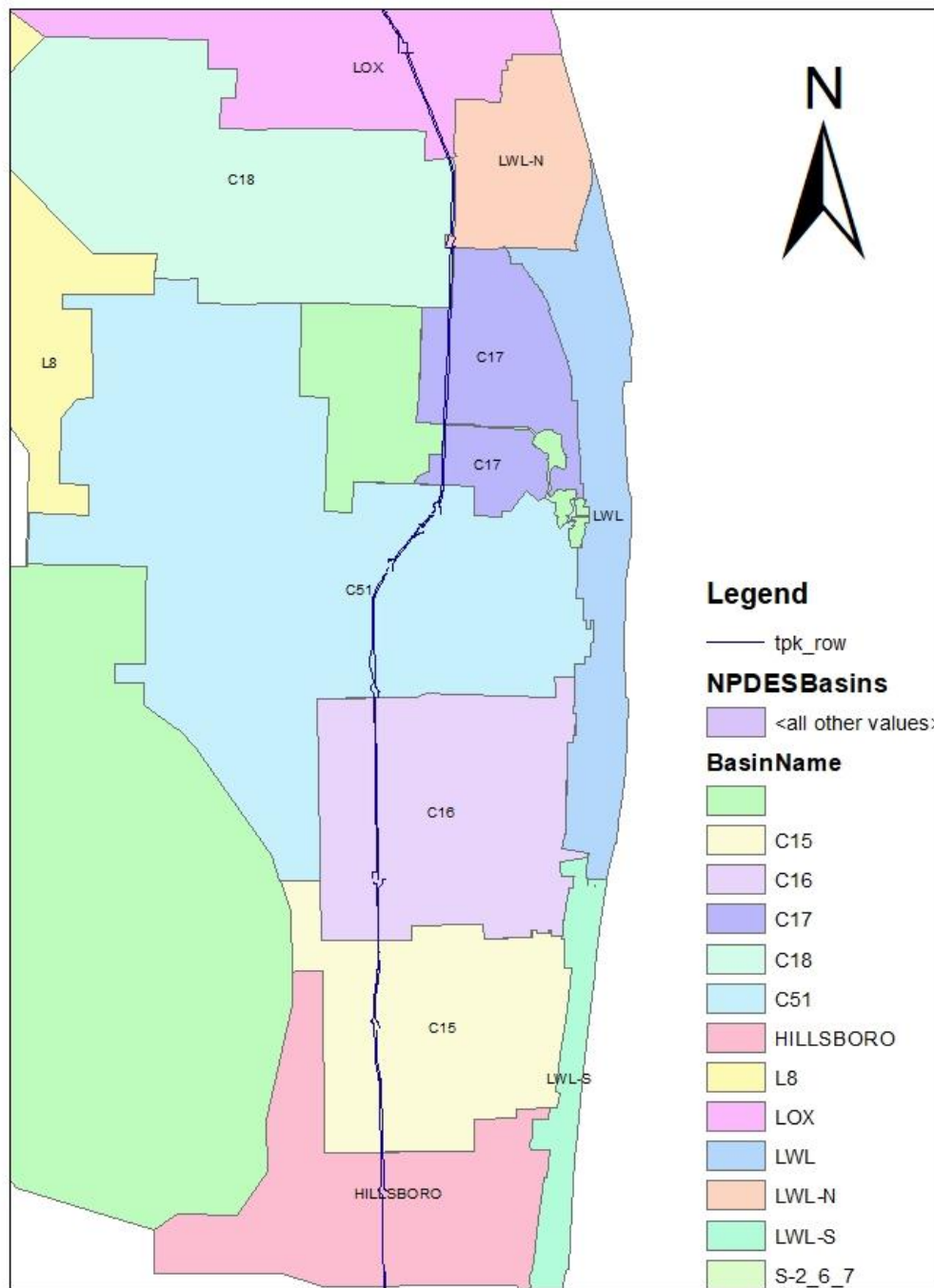


Figure 8.

Summary:

- The C-18 basin chlorophyll-a value both upstream and downstream sites showed a decrease. TN at both sites had a slight increase. TP upstream site had an increase and downstream site had a decrease value. EMC for C-18 watershed had a slight decrease in all paramotors BODs, TSS, TP CU, ZN, and TN.
- The C-51 basin chlorophyll-a upstream site showed a decrease from 2016 to present while the downstream site showed a slight increase. TN all three sites showed an increase. TP showed an increase at the upstream site and no change at both downstream sites. EMC for C-51 watershed had a slight decrease in all paramotors BODs, TSS, TP CU, ZN, and TN.
- The C-16 basin chlorophyll-a upstream site decreased substantially, while the downstream site only slightly decreased. TN at the upstream site had very little change. Downstream decreased dramatically in 2018. TP at both sites showed slight decreases. EMC for C-16 watershed had a slight decrease in all paramotors BODs, TSS, TP CU, ZN, and TN.
- The C-15 basin chlorophyll-a upstream and downstream decreased. TN upstream had little or no change over the 5-year monitoring period. The downstream monitoring site increased slightly. TP upstream had an overall decreasing trend over the 5-year monitoring period, while downstream had no change.
- Chlorophyll-a overall decreased in all four of the upstream basins and decreased in 3 of the downstream basins. TN decreased in C-16 basin downstream and increased or showed no change in remaining three basins. TP increased in 2 basins upstream and one downstream. TP had one increase and one decrease downstream.
- Pollutant Loading- in comparing Cycle 3 and Cycle 4 pollutant loading, I can conclude that FTE has reduced pollutant loading estimates into the watersheds for Cycle 4. This was before education and street sweeping reductions/ credits were added lowering load estimates even more. Street sweeping reduced load by 6.4 % TP and 1.5 % TN and I'm sure it reduced other parameters too. However, I am not able to calculate them. Revisions to the Stormwater Management Programs (SWMP) are needed at this time.

In summary, nutrient levels of all three parameters increased from northern Palm Beach County to southern Palm Beach County. This is probably due to urban build up and population dynamics of the southern region. In almost all samplings, values coming from the western sites or upstream had higher chlorophyll-a, total nitrogen and total phosphorus values than those at the eastern sites or downstream. This is probably due to more agricultural land use upstream.

FTE has no direct discharge to a water of the state without prior BMPs. Treatment through stormwater ponds, swales, catch basins and other structural BMPs assist in removing excess nutrient before stormwater is discharged. FTE does not use fertilizer as routine maintenance, helping to not contribute to nutrient levels.

References:

Municipal Separate Storm Sewer System National Pollutant Discharge Elimination System Joint Annual Report Cycle 4 Year 3 Northern Palm Beach Improvement District

Mock, Roos & Associates, Inc. (2014). Lake Worth Drainage District 2014 Water Control Plan

<http://www.lwdd.net/wp-content/uploads/2014/10/LWDD-Water-Control-Plan-for-2014.pdf>

SFWMD, Canals in South Florida: A Technical Support Document

https://www.sfwmd.gov/sites/default/files/documents/canalssfl_appendixa-c.pdf

FTED MS4 (PB Co.), Lox River TMDL & BPCP Submittal Schedule

From: Fetigan, Allison <Allison.Fetigan@dot.state.fl.us>
Sent: Friday, January 15, 2021 1:19 PM
To: Cioccia, Stephen <Stephen.Cioccia@dep.state.fl.us>
Cc: Meyer, Debbie M. <Debbie.Meyer@dot.state.fl.us>; Alan D. Wertepny <alan.wertepny@mockroos.com>; Crane-Amores, Borja <Borja.CraneAmores@FloridaDEP.gov>; Gutierrez, Kim <Kim.Gutierrez@dot.state.fl.us>
Subject: RE: FTED MS4 (PB Co.), Lox River TMDL & BPCP Submittal Schedule

Good afternoon Stephen,

Please see attached FTE's revised prioritization report for Palm Beach county. If you have any questions, please let me know.

Thanks,

Allison Fetigan (Crow)

Environmental Scientist II / NPDES Coordinator – **ESA**
Traffic Engineering and Maintenance General Consultant to Florida's Turnpike
Physical Address: Mile Post 65, Florida's Turnpike - Turnpike Operations Center, Pompano Beach, FL 33069
US Mail: P.O. Box 9828, Ft. Lauderdale, FL 33310
Phone: 954.934.1213
Cell: 954.809.4269

From: Cioccia, Stephen <Stephen.Cioccia@dep.state.fl.us>
Sent: Monday, December 7, 2020 9:43 AM
To: Crow, Allison <Allison.Crow@dot.state.fl.us>
Cc: Meyer, Debbie M. <Debbie.Meyer@dot.state.fl.us>; Alan D. Wertepny <alan.wertepny@mockroos.com>; Crane-Amores, Borja <Borja.CraneAmores@FloridaDEP.gov>
Subject: RE: FTED MS4 (PB Co.), Lox River TMDL & BPCP Submittal Schedule
Importance: High

Good morning Allison,

The following is a short summary of our discussion on the morning of 12/4/20, including MS4 permit deliverables required of the permittee:

The Turnpike Enterprise District (FTED) has determined they are now required to address MS4 indirect discharges to TMDL WBID 3226C-Loxahatchee River Southwest Fork (Bacteria impairment, FIB), due to the discovery of new information for MS4 indirect discharges to this WBID. The original permit required submittal of a 'Prioritization Report', dated 3/31/2017 from Troy Craig (attachment 1), indicated from the permittee *"However we do not believe that we are discharging directly or indirectly to any waters of the state nor do we believe that we are a source of fecal coliform within this WBID. We will provide documentation supporting the above statements in the near future."* There is no record of receipt by the Department of the documentation mentioned in the permittee's 'Prioritization Report' for confirmation of no MS4 discharges (directly or indirectly) to any waters of the state. **The permittee has recently determined they are now required to address MS4 indirect discharges to TMDL WBID 3226C, per the MS4 permit.**

Our discussion concluded the permittee shall submit a revised 'Prioritization Report' to address the MS4 indirect discharges to TMDL WBID 3226C. This is required because the permittee's original 'Prioritization Report' did not include the current information which identifies MS4 indirect discharges to the TMDL WBID which requires address and did not clearly specify a TMDL WBID to be addressed during the MS4 cycle 4 permit term per the MS4.

Related to the permit's process required to address the TMDL WBID 3226C-Loxahatchee River bacteria impairment is the presence of the 303d category 4e Pollutant Reduction Plan (PRP) which was finalized by the Loxahatchee River stakeholders in collaboration with DEP-DEAR February 2020 (attachment 2). DEP's Stormwater Program has allowed permittee's to address their FIB TMDL impairment requirements within the vehicle of the PRP. This requires the permittee stakeholder's to include all permit required elements within the framework of the PRP (BPCP per Part VIII.B.3). The presence of the PRP for this TMDL WBID allows the permittee the flexibility of choosing to address the FIB TMDL impairment requirements per the usual permit process (BPCP per Part VIII.B.3) or within the vehicle of the PRP.

Permittee required deliverables:

- 1. The permittee shall submit by 1/15/21 their decision whether to address the permit's FIB TMDL impairment requirements per the usual permit process or within the vehicle of the PRP.**
- 2. The permittee shall submit no later than with their MS4 Year 4 Annual Report (March 2021) a revised 'Prioritization Report' with implementation schedule to address all MS4 discharges (including indirect) to the TMDL WBID 3226C.**

Ensure to contact me prior to a due date should you encounter delays in meeting any deliverable. Should you have a question please contact me by email.

Regards,
Steve
MS4 Coordinator
850-245-8568

From: Cioccia, Stephen
Sent: Wednesday, December 02, 2020 4:22 PM
To: Crow, Allison <Allison.Crow@dot.state.fl.us>; Crane-Amores, Borja <Borja.CraneAmores@FloridaDEP.gov>
Subject: RE: Loxahatchee River TMDL & BPCP Submittal Schedule

Allison,

Thank you for your response. This additional information will allows us to have a more productive discussion on Friday. We can certainly discuss a BPCP submittal schedule during our call.

Looking forward to speaking with you tomorrow.

Steve
MS4 Coordinator
850-245-8568

From: Crow, Allison <Allison.Crow@dot.state.fl.us>
Sent: Wednesday, December 02, 2020 3:55 PM
To: Cioccia, Stephen <Stephen.Cioccia@dep.state.fl.us>; Crane-Amores, Borja <Borja.CraneAmores@FloridaDEP.gov>
Subject: RE: Loxahatchee River TMDL

Good afternoon Stephen and Borja,

I wanted to provide you an update on determining indirect discharge into the Lox River TMDL. After consulting with Alan Wertepny, reviewing additional as-builts, and completing groundtruth inspections, I have found that the Turnpike has two borrow canals that are connected by crossdrains, and eventually discharge into a SIRWCD MS4 canal. The SIRWCD canal outfalls into the Lox River within the TMDL 3226C boundaries. There are outfalls from our ROW into these borrow canals. With this new knowledge, I am planning to complete a BPCP and Walk the ROW event (completed already). These borrow canals were not previously in our GIS inventory, which is probably why they were missed. I will include maps in the BPCP that show the Turnpike outfalls, borrow canals, cross drains, etc.

My main question is working on a timeline on when to submit the BPCP. Would it be acceptable to submit this BPCP with the Year 4 report in March 2021? I understand this has been pushed back a lot, and I appreciate the understanding and assistance Sarah and FDEP has granted the Turnpike. I understand FDEP may want this BPCP completed and submitted earlier, and I would like to work on a timeline that FDEP agrees with. I want to ensure the Turnpike stays in compliance with FDEP requirements.

Looking forward to the meeting Friday to discuss these questions/concerns.

Thanks,

Allison Crow

Environmental Scientist II / NPDES Coordinator – **ESA**
Traffic Engineering and Maintenance General Consultant to Florida's Turnpike
Physical Address: Mile Post 65, Florida's Turnpike - Turnpike Operations Center, Pompano Beach, FL 33069
US Mail: P.O. Box 9828, Ft. Lauderdale, FL 33310
Phone: 954.934.1213
Cell: 954.809.4269

From: Cioccia, Stephen <Stephen.Cioccia@dep.state.fl.us>
Sent: Wednesday, December 2, 2020 9:35 AM
To: Crow, Allison <Allison.Crow@dot.state.fl.us>; Crane-Amores, Borja <Borja.CraneAmores@FloridaDEP.gov>
Subject: RE: Loxahatchee River TMDL
Importance: High

Good morning Allison,

I will be participating in the call on this subject Friday. Wanted to request if you could forward your questions/concerns by COB Thursday so that we can prepare an effective discussion to address these

during the call.

From copy of Sarah's email on 10/30 to you (see below) it appears to be a question relating to the presence of non-major MS4 discharges to the TMDL WBID ("The justification does not identify whether there are non-major MS4 discharges to the TMDL WBID."). If you could attempt to confirm prior to the call the presence/absence of non-major MS4 discharges/outfalls within the TMDL WBID this would promote a more effective discussion.

Looking forward to speaking with you on Friday morning.

Regards,
Steve
MS4 Coordinator
850-245-8568

From: Crow, Allison <Allison.Crow@dot.state.fl.us>
Sent: Wednesday, December 02, 2020 8:06 AM
To: Crane-Amores, Borja <Borja.CraneAmores@FloridaDEP.gov>; Maron, Jason <Jason.Maron@FloridaDEP.gov>; Cioccia, Stephen <Stephen.Cioccia@dep.state.fl.us>
Subject: RE: Broward C-11 BPCP & Loxahatchee River TMDL

Good morning Borja,

Yes that would be great. Do you have any availability this afternoon after 2pm? I am also available anytime Thursday or Friday.

Thanks,

Allison Crow

Environmental Scientist II / NPDES Coordinator – **ESA**
Traffic Engineering and Maintenance General Consultant to Florida's Turnpike
Physical Address: Mile Post 65, Florida's Turnpike - Turnpike Operations Center, Pompano Beach, FL 33069
US Mail: P.O. Box 9828, Ft. Lauderdale, FL 33310
Phone: 954.934.1213
Cell: 954.809.4269

From: Crane-Amores, Borja <Borja.CraneAmores@FloridaDEP.gov>
Sent: Tuesday, December 1, 2020 9:30 AM
To: Crow, Allison <Allison.Crow@dot.state.fl.us>; Maron, Jason <Jason.Maron@FloridaDEP.gov>; Cioccia, Stephen <Stephen.Cioccia@dep.state.fl.us>
Subject: RE: Broward C-11 BPCP & Loxahatchee River TMDL

Hello Allison –

If you would like, we can set up a call to discuss the Loxahatchee River TMDL. I do plan on filling Sarah position in the near future.

Thank you Borja

From: Ketron, Sarah K <Sarah.Ketron@floridadep.gov>
Sent: Wednesday, November 25, 2020 11:08 AM
To: Crow, Allison <Allison.Crow@dot.state.fl.us>; Maron, Jason <Jason.Maron@FloridaDEP.gov>; Crane-Amores, Borja <Borja.CraneAmores@FloridaDEP.gov>

Cc: Cioccia, Stephen <Stephen.Cioccia@dep.state.fl.us>
Subject: Re: Broward C-11 BPCP & Loxahatchee River TMDL

Hi Allison.

I am no longer with the NPDES stormwater program and have forwarded your request to Borja Crane-Amores for routing. I wish you great success going forward.

Thanks,

Sarah Ketron

Get [Outlook for iOS](#)

From: Crow, Allison <Allison.Crow@dot.state.fl.us>
Sent: Wednesday, November 25, 2020 9:24:06 AM
To: Ketron, Sarah K <Sarah.Ketron@floridadep.gov>
Subject: RE: Broward C-11 BPCP & Loxahatchee River TMDL

Good morning Sarah,

Would you be available for a call sometime next week to discuss the Loxahatchee River TMDL? Hope you have a great Thanksgiving.

Thanks,

Allison Crow

Environmental Scientist II / NPDES Coordinator – **ESA**
Traffic Engineering and Maintenance General Consultant to Florida's Turnpike
Physical Address: Mile Post 65, Florida's Turnpike - Turnpike Operations Center, Pompano Beach, FL 33069
US Mail: P.O. Box 9828, Ft. Lauderdale, FL 33310
Phone: 954.934.1213
Cell: 954.809.4269

From: Ketron, Sarah K <Sarah.Ketron@floridadep.gov>
Sent: Friday, October 30, 2020 4:40 PM
To: Crow, Allison <Allison.Crow@dot.state.fl.us>
Subject: RE: Broward C-11 BPCP & Loxahatchee River TMDL

EXTERNAL SENDER: Use caution with links and attachments.

Hi Allison! Thanks so much for your patience. On the Loxhatchee for Palm Beach, consider the following:

Given the C4 permit (Part VIII.B.) identifies the MS4 Requirements for addressing TMDLs with the following "The term "MS4 discharge" shall mean direct discharge, or indirect discharge through an interconnected MS4. "Point of interconnection" shall mean the point at which the MS4 of one permittee discharges into the MS4 of another permittee whose MS4 discharges to the TMDL water body. ", the permit does not limit those MS4 discharges which are required to reduce pollutants discharged to address TMDL impairments to major outfalls. The justification does not identify whether there are non-major MS4 discharges to the TMDL WBID.

Thank you for researching as-builts in an attempt to identify the interconnected areas with D4 within this WBID. As a compromise, would you consider adding an activity to groundtruth (can coincide with non-structural MS4

connections (e.g. culverts, swales, etc.). as an activity under "Ongoing Follow-Up" on page 4 of the draft justification letter?

This way, there is a paper trail to show that if circumstances change, as indicated in the Summary, the appropriate actions will be taken.

I didn't make any inline revisions, but welcome a call you need to walk through these suggestions.

For Broward, I will send a separate email (ASAP).

Please let me know if you have any questions and THANKS for all you do.

Sarah

From: Crow, Allison <Allison.Crow@dot.state.fl.us>
Sent: Friday, September 25, 2020 2:08 PM
To: Ketron, Sarah K <Sarah.Ketron@floridadep.gov>
Subject: Broward C-11 BPCP & Loxahatchee River TMDL

Good afternoon Sarah,

Please see attached revised BPCP for Broward C-11 WBID 3281. I have also attached a preliminary report regarding the Loxahatchee River TMDL WBID 3226C. I was hoping you would be able to review it and provide your comments before I have my supervisor sign off on it.

Any questions please let me know. Hope you have a good weekend!

Thanks,

Allison Crow

Environmental Scientist II / NPDES Coordinator – **ESA**

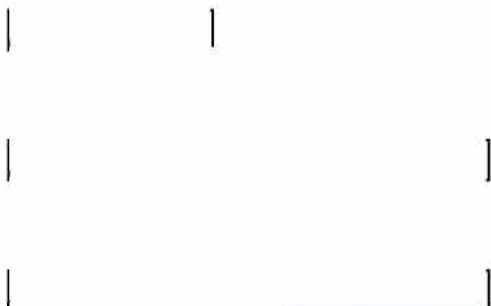
Traffic Engineering and Maintenance General Consultant to Florida's Turnpike

Physical Address: Mile Post 65, Florida's Turnpike - Turnpike Operations Center, Pompano Beach, FL 33069

US Mail: P.O. Box 9828, Ft. Lauderdale, FL 33310

Phone: 954.934.1213

Cell: 954.809.4269





Florida Department of Transportation

RON DESANTIS
GOVERNOR

Florida's Turnpike Enterprise
P.O. Box 9828, Fort Lauderdale, FL 33310
954-975-4855

KEVIN J. THIBAUT, P.E.
SECRETARY

January 15, 2021

Mr. Stephen Cioccia
Florida Department of Environmental Protection
NPDES Stormwater Section
Mail Station 2500
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Subject: Florida Turnpike Enterprise's TMDL Prioritization Report for Palm Beach County
MS4 Phase I Permit No. FLS000018-004

Dear Mr. Cioccia,

Please find the attached revised TMDL prioritization report for the Florida Turnpike Enterprise's Palm Beach County Permit Cycle 4. We are sending you this report to comply with the TMDL requirement set forth in the Palm Beach County Phase I MS4 NPDES Permit FLS000018-004.

Florida's Turnpike Enterprise (FTE) has determined FTE is indirectly discharging to WBID 3226C via canals within FTE right of way discharging to South Indian River Water Control District's (SIRWCD) MS4. FTE does not believe we are a source or conveying fecal coliform or Enterococci within this WBID. We will provide documentation to support the above statements with the Cycle 4 Year 4 Annual Report.

FTE is addressing TMDL requirements within the vehicle of the Loxahatchee River Pollutant Reduction Plan (PRP). FTE is a stakeholder in the Pollutant Reduction Plan and has completed multiple Fecal Indicator Bacteria (FIB) projects. FTE will provide documentation to meet requirements of part VIII.3.a, Stormwater Discharge Compliance and Water Quality Standards with the Cycle 4 Year 4 Annual Report.

Should you have any questions please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Allison Fetigan".

Allison Fetigan
NPDES Coordinator
Florida's Turnpike Enterprise

DocuSigned by:
A handwritten signature in blue ink, appearing to read "Kim Gutierrez".
5766DF5E5EB1451...

Kim Gutierrez
Deputy Maintenance Engineer
Florida's Turnpike Enterprise

Florida's Turnpike Enterprise
NPDES MS4 Permit FLS000018-4

TMDL Prioritization Report
WBID 3226C – Southwest Fork of the Loxahatchee
River

Revised January 12, 2021



Florida's Turnpike /FDOT
 NPDES MS4 Permit FLS000018-004
 TMDL Prioritization Report

Introduction

Palm Beach County was issued its Cycle 4 National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit FLS000018-4 on 09/08/2016. A MS4 is a publicly-owned conveyance or system of conveyances (i.e., ditches, curbs, catch basins, underground pipes, etc.) that is designed or used for collecting or conveying stormwater and that discharges to surface waters of the State. The Florida Department of Environmental Protection's Division of Water Resource Management uses a comprehensive approach to protecting Florida water quality involving basin-wide assessments and the application of regulatory and non-regulatory strategies to reduce pollution. FDEP has adopted the Total Maximum Daily Load (TMDL) program as a comprehensive approach to protect state waters. The threshold limits on pollutants in surface waters--Florida's surface water quality standards on which TMDLs are based--are set forth primarily in rule 62-302, Florida Administrative Code, and the associated table of water quality criteria. (FDEP website.)

Three (3) TMDLs established after March 2, 2011 (Table 1) were targeted to be prioritized during the 2016 – 2021 permit cycle. This prioritization report includes Florida Turnpike Enterprise (FTE) prioritized list of impaired waterbodies, an explanation of the prioritization factors, methodology, and the proposed implementation schedule.

WBID	Segment Name	Basin	Impairment	% Reduction	Date	Agency
3226C	SW Fork Loxahatchee River	St. Lucie Loxahatchee	Fecal Coliform	91	5/16/2012	DEP
3262A	Lake Ida	Lake Worth Lagoon	Nutrients	TN 20 TP 45	11/9/2012	EPA
3264A	E-1 Canal	Lake Worth Lagoon	Fecal Coliform	94	5/15/2012	DEP

Florida's Turnpike /FDOT
NPDES MS4 Permit FLS000018-004
TMDL Prioritization Report

Florida's Turnpike Enterprise Water Body Identification

To determine which TMDL Water Body Identification (WBID) The FTE is part of, the FTE NPDES Coordinator used the FDEP ArcGIS WBID shapefile/geodatabase (WBIDS_SP_VW.gdb) to visually represent the area. Through this mapping effort it was determined that the FTE extends through WBID 3226C – Loxahatchee River (Southwest Fork) impaired for Bacteria (fecal coliform)(Table 1).

WBID 3226 C Loxahatchee River – Southwest Fork

The area of the Southwest Fork Loxahatchee River WBID boundary is approximately 6.8 square miles (4,376 acres) and is predominantly comprised of built-up urban and residential areas. The Florida Turnpike is located on the southwest side of the WBID and starts at the southwest border extending approximately 2 miles north along the western side of the WBID boundary.

Review of State Water Quality Standards

According to the Environmental Protection Agency's (EPA's) 2012 Recreational Water Quality Criteria Report, *E. coli* and *Enterococci* are better indicators of fecal contamination than the previously used total coliforms and fecal coliforms. In 2017, the EPA approved the State of Florida's rulemaking adopting several new water quality criteria. The rule making included new criteria for bacteriological quality for both fresh and marine waters. For marine waters in the State of Florida, *Enterococci* replaced fecal coliform as the fecal contamination indicator bacteria.

FDEP recently completed the Cycle 4 Assessment, which included the Southwest Fork of the Loxahatchee River (WBID 3226C). The verified assessment period was January 1, 2013 through June 30, 2020. Based on this assessment, the Southwest Fork of the Loxahatchee River (WBID 3226C) is impaired for *Enterococci*.

Prioritization Approach

Based on the list of impaired waterbodies in Table 1 that have a DEP adopted (EPA approved) or EPA established TMDL, Florida's Turnpike (FTE) only resides in WBID 3226C and the applied prioritization ranking process was not necessary.

Florida's Turnpike /FDOT
 NPDES MS4 Permit FLS000018-004
 TMDL Prioritization Report

Implementation Schedule

Florida's Turnpike implementation schedule is summarized below in Table 2.

WBID	Waterbody	TMDL Parameter	Source identification & Assessment Plan	Pollution Reduction Plan (4e) Projects	Pollution Reduction Plan (4e)/TMDL Implementation
3226C	SW Fork Loxahatchee River	Fecal Coliform (Revised to Enterococci in 2017)	Mar 8, 2017-Mar 7, 2018	Mar 8, 2018- Mar 7, 2019	Mar 8, 2019 – Sept 7, 2021

DEP's Stormwater Program has allowed permittees to address their Fecal Indicator Bacteria (FIB) TMDL impairment requirements within the vehicle of the Pollution Reduction Plan (PRP). Florida's Turnpike is proposing to address WBID 3226C SW Fork Loxahatchee River during this permit cycle within the vehicle of the PRP. Table 2 above establishes a timeline for the implementation of steps needed to meet Part VIII, Stormwater Discharge Compliance and Water Quality Standards.

Summary

Based on the available technical resources, Florida's Turnpike believes the proposed prioritization and implementation schedule meets the requirements set forth in Part VIII, Stormwater Discharge Compliance and Water Quality Standards, of its NPDES MS4 permit FLS000018-4.

Figure 1. Major Outfalls Map of WBID 3226C

Stormwater Drainage & NPDES Field Data Collection - Copy



Figure 1. Stormwater Drainage Map of WBID 3226C

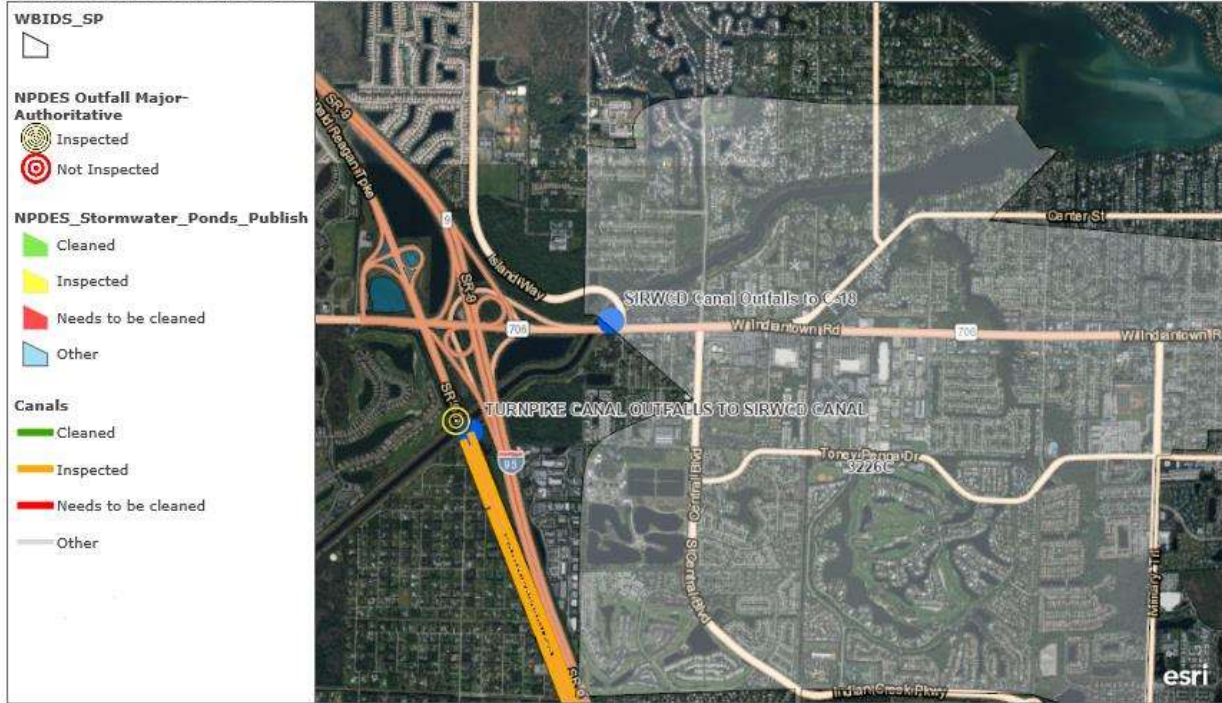


Figure 3. SIRWCD Structures and Turnpike Canal Interconnectivities



Figure 4. SIRWCD Structures and Turnpike Canal Interconnectivities

Stormwater Drainage & NPDES Field Data Collection



FTE NPDES Field Data Collection

0.6mi