



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: South Indian River Water Control District		
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 type="checkbox"/> Year 3 <input checked="" type="checkbox"/> Year 4 <input type="checkbox"/> Year 5 <input type="checkbox"/> Other, specify Year:		
E.	Reporting Time Period (month/year): October 1 / 2019 through September 30 / 2020		
F.	Name of the Responsible Authority: Mike Dillon		
	Title: Manager of Operations		
	Mailing Address: 15600 Jupiter Farms Road		
	City: Jupiter	Zip Code: 561-747-0550	County: Palm Beach
	Telephone Number: 561-689-0370		Fax Number: 561-689-4317
	E-mail Address: sirwcd@sirwcd.org		
G.	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: PBC Joint Annual Report Status: The monitoring 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 monitoring information.</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 see the attached Water Quality Assessment Report. Refer to the Palm Beach County Joint Annual Report for a summary of the Group Water Quality Monitoring Results for the reporting period.</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>Please see the attached Water Quality Assessment Report.</p>

SECTION IV. FISCAL ANALYSIS

A.	Total expenditures for the NPDES stormwater management program for the current reporting year: \$19,107.25
B.	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$17,500.00
C.	<p>Did the current reporting year resources decrease from the previous year? Y <input type="checkbox"/> / N <input checked="" type="checkbox"/></p> <p>If program resources decreased, provide a discussion of the impacts on the implementation of the SWMP.</p> <p>Last year's total expenditures were higher due to time spent preparing for, attending and preparing responses to the FDEP audit.</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 type="checkbox"/>	<input checked="" type="checkbox"/>	Year 3 ONLY: The estimates of pollutant loadings and event mean concentrations for each major outfall or each major watershed in accordance with Rule 62-624.600(2)(b), F.A.C.	Part V.A	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 3: Summary of TMDL Monitoring Results (if applicable).	Part VIII.B.2	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 3: Bacteria Pollution Control Plan (if applicable).	Part VIII.B.3	
<input 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	SIRWCD does not have authority to implement such codes and regulations
<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 checked="" 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	See Joint Annual Report and attached Assessment Report
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: TMDL Supplemental SWMP (if applicable).	Part VIII.B.3	SIRWCD is participating in the SW Fork of Lox River RAP

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

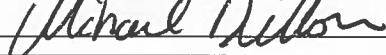
SECTION VI. CERTIFICATION STATEMENT AND SIGNATURE

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

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

Name of Responsible Authority (type or print): Michael Dillon

Title: Manager of Operations

Signature: 

Date: 3/29/21

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE										
A.	B.					C.	D.	E.	F.	
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity					Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments	
Part III.A.1	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				
	Major outfalls	12	12	100	12	100%	Inspection log book	SIRWCD Personnel	Includes water control structures	
	Weirs or other control structures	12	32	100	12	100%	Inspection log book	SIRWCD Personnel		
	pipes / culverts (miles)	1.6	38	100	N/A	N/A	Inspection log book		PBC pipes/culverts in County roads	
	Canals	60	105	100	105	100%	Inspection log book	SIRWCD Personnel	On-going maintenance	
	Inlets / catch basins / grates	78	237	100	237	100	Inspection log book	SIRWCD Personnel		
	Ditches / conveyance swales (miles)	300+	365	100	365	100%	District Timesheets	SIRWCD Personnel	On-going maintenance	
	<input type="checkbox"/>									
	<p>If the minimum inspection frequencies set forth in Table II.A.1.a. were not met, provide as an attachment an explanation of why they were not and a description of the actions that will be taken to ensure that they will be met.</p>									

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments	
Part III.A.1 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.					
	Strengths: The program clearly outlines the required frequency of inspections and maintenance for all structural components along with required inspection and maintenance activities. Reporting of inspections and maintenance is required for inclusion in the annual report.					
	Limitations: No limitations in the program have been identified.					
	SWMP revisions implemented to address limitations: No revisions are proposed.					
Part III.A.2	Areas of New Development and Significant Redevelopment					
	Continue to employ ITID, NPDCID, SIRWCD Drainage Permit requirements for developments occurring within the ITID, NPDCID, SIRWCD boundaries to ensure that appropriate stormwater treatment and permitting occurs prior to discharge into the ITID, NPDCID, SIRWCD systems. Refer connecting entities failing to meet the ITID, NPDCID, SIRWCD permit requirements or maintain the discharge of acceptable water quality, after sufficient warning by ITID, NPDCID, SIRWCD to DEP and/or Palm Beach County; or the SFWMD to regulate the stormwater quality through local or State rules, ordinances, and codes. Report the number of enforcement referrals completed.					
	Number of significant development projects reviewed		0	N/A	N/A	N/A
	Number of significant development projects approved		0	N/A	N/A	N/A
	Provide in the Year 2 Annual Report the summary report of the review activity. Provide in the Year 4 Annual Report the follow-up report on plan implementation.					
	Year 2 ONLY: Attach the summary report of the review activity		<input type="checkbox"/>	N/A	N/A	N/A
	Year 4 ONLY: Attach the follow-up report on plan implementation		<input type="checkbox"/>			No modifications recommended
Part III.A.2 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.					
	Strengths: see comments above.					
	Limitations: No limitations in the program have been identified.					
	SWMP revisions implemented to address limitations: No revisions are proposed.					
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		3 days/week	District Log	SIRWCD Personnel	
	PERMITTEE Litter Control: Estimated amount of area maintained (lf)		316,800	District Log	SIRWCD Personnel	Canal debris
	PERMITTEE Litter Control: Estimated amount of litter collected (cy)		8.61	District Log	SIRWCD Personnel	Canal debris
	CONTRACTOR Litter Control: Frequency of litter collection		0	N/A	N/A	N/A
	CONTRACTOR Litter Control: Estimated amount of area maintained (lf)		0	N/A	N/A	N/A
	CONTRACTOR Litter Control: Estimated amount of litter collected (cy)		0	N/A	N/A	N/A
	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					

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
	collected. If you do not participate in an Adopt-A-Road program, report "0".				
	Trash Pick-up Events: Total miles cleaned	0	N/A	N/A	N/A
	Trash Pick-up Events: Estimated amount of litter collected (cy)	0	N/A	N/A	N/A
	Adopt-A-Road: Total miles cleaned	0	N/A	N/A	N/A
	Adopt-A-Road: Estimated amount of litter collected (cy)	0	N/A	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	0	N/A	N/A	No Curb & Gutter
	Total miles swept	0	N/A	N/A	
	Estimated quantity of sweeping material collected (cy / tons)	0	N/A	N/A	
	Total phosphorous loadings removed (pounds)	0	N/A	N/A	
	Total nitrogen loadings removed (pounds)	0	N/A	N/A	
	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			
	SIRWCD Maintenance Shop	1	District Log	SIRWCD Personnel	Annual

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Part III.A.3 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: The SIRWCD implements a litter control program.				
	Limitations: No limitations in the program have been identified.				
	SWMP revisions implemented to address limitations: No revisions are proposed.				
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	N/A	N/A	There were no flood control projects constructed.
	Flood control projects completed that did not include stormwater treatment	0	N/A	N/A	N/A
	Stormwater retrofit projects planned/under construction	0	N/A	N/A	N/A
	Stormwater retrofit projects completed	0	N/A	N/A	N/A
	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.				
Part III.A.4 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: When flood control projects are implemented, they are designed and constructed to meet the water quality requirements of the Environmental Resource Permitting rules of the South Florida Water Management District.				
	Limitations: No limitations in the program have been identified.				
	SWMP revisions implemented to address limitations: No revisions are proposed.				

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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			
	SIRWCD	1	District Log	SIRWCD Personnel	Annual
Part III.A.5 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: The TSD facility is inspected on an annual basis.				
	Limitations: No limitations in the program have been identified.				
	SWMP revisions implemented to address limitations: No revisions are proposed.				
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	N/A	N/A	No SIRWCD Applicators
	CONTRACTORS: FDACS commercial applicators of pesticides/ herbicides	1	District Files	Terra-Tech	Monthly Reports
	PERSONNEL: Green Industry BMP Program training completed	0	N/A	N/A	
	CONTRACTORS: FDACS certified / licensed applicators of fertilizer	0	N/A	N/A	No Fertilizer Applied
	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"/>	N/A	N/A	N/A
	Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage citizens to reduce their use of pesticides, herbicides and fertilizers including the type and number of activities conducted, the type and number of materials distributed, and the number of Web site visits (if applicable).				
	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	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Neighborhood presentations: Number conducted	0	N/A	N/A	
	Neighborhood presentations: Number of participants	0	N/A	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
	Newspapers & newsletters: Number of articles/notices published	4	Mailed to Landowners	SIRWCD	Quarterly
	Newsletters: Number of newsletters distributed	28,000	Mailed to Landowners	SIRWCD	Quarterly
	Public displays (e.g., kiosks, storyboards, posters, etc.)	0	N/A	N/A	
	Radio or television Public Service Announcements (PSAs)	See comment above	See comment above	PBC Permittees	Joint Annual Report
	School presentations: Number conducted	0	N/A	N/A	
	School presentations: Number of participants	0	N/A	N/A	
	Seminars/Workshops: Number conducted	0	N/A	N/A	
	Seminars/Workshops: Number of participants	0	N/A	N/A	
	Special events: Number conducted	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Special events: Number of participants	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Number of visitors to stormwater-related pages	0	N/A	N/A	
Part III.A.6 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: The program requires proper certification and licensing for all applicators used to apply pesticides or herbicides on applicant owned property. A public education and outreach program is in place and is carried out as a joint effort by the Palm Beach County Co-permittees.				
	Limitations: No limitations in the program have been identified.				
	SWMP revisions implemented to address limitations: No revisions are proposed.				
Part III.A.7.a	Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures				
	Report amendments in Year 4. See comment below.				
	Year 4 ONLY: Attach a report on amendments to applicable legal authority	<input type="checkbox"/>	N/A	N/A	SIRWCD does not have legal authority; relies on PB County's legal authority
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	105	District Log	SIRWCD Personnel	
	Illicit discharges found during a proactive inspection	0	N/A	N/A	
	NOV/WL/citation/fines issued for illicit discharges found during proactive inspection	0	N/A	N/A	
	Report on the reactive investigation program as it relates to responding to reports of suspected illicit discharges, including the number of reports received, the				

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	number of investigations conducted, the number of illicit activities found, and the number and type of enforcement actions taken.				
	Reports of suspected illicit discharges received	0	N/A	N/A	
	Reactive investigations of reports of suspected illicit discharges etc.	0	N/A	N/A	
	Illicit discharges etc. found during reactive investigation	0	N/A	N/A	
	NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation	0	N/A	N/A	
	Report the type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training) within the reporting year.				
	Personnel trained	9	In-house video	SIRWCD	Sign-in sheet
	Contractors trained	0	N/A	N/A	N/A
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	N/A	N/A	No Spills
	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	9	In-house video	SIRWCD	Sign-in sheet
	Contractors trained	0	N/A	N/A	N/A
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.			
	Brochures/Flyers/Fact sheets distributed	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Neighborhood presentations: Number conducted	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Neighborhood presentations: Number of participants	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Newspapers & newsletters: Number of articles/notices published	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Newsletters: Number of newsletters distributed	28,000	SIRWCD Newsletter	SIRWCD	
	Public displays (e.g., kiosks, storyboards, posters, etc.)	See comment above	See comment above	PBC Permittees	Joint Annual Report

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Radio or television Public Service Announcements (PSAs)	See comment above	See comment above	PBC Permittees	Joint Annual Report
	School presentations: Number conducted	See comment above	See comment above	PBC Permittees	Joint Annual Report
	School presentations: Number of participants	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Seminars/Workshops: Number conducted	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Seminars/Workshops: Number of participants	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Special events: Number conducted	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Special events: Number of participants	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Number of visitors to stormwater-related pages	See comment above	See comment above	PBC Permittees	Joint Annual Report
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.			
	Brochures/Flyers/Fact sheets distributed	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Neighborhood presentations: Number conducted	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Neighborhood presentations: Number of participants	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Newspapers & newsletters: Number of articles/notices published	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Newsletters: Number of newsletters distributed	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Public displays (e.g., kiosks, storyboards, posters, etc.)	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Radio or television Public Service Announcements (PSAs)	See comment above	See comment above	PBC Permittees	Joint Annual Report
	School presentations: Number conducted	See comment above	See comment above	PBC Permittees	Joint Annual Report
	School presentations: Number of participants	See comment above	See comment above	PBC	Joint Annual

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Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Seminars/Workshops: Number conducted	above	above	Permittees	Report
		See comment above	See comment above	PBC Permittees	Joint Annual Report
	Seminars/Workshops: Number of participants	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Special events: Number conducted	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Special events: Number of participants	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Storm sewer inlets newly marked/replaced	See comment above	See comment above	PBC Permittees	Joint Annual Report
	Number of visitors to stormwater-related pages	See comment above	See comment above	PBC Permittees	Joint Annual Report
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 ITID, NPDCID, SIRWCD'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	Palm Beach County – 90% of SIRWCD is served by septic			
	Activity to reduce/eliminate SSOs and I&I: (description)	0	N/A	N/A	Contacted PBCWUD by email; no response yet
	Activity to reduce/eliminate SSOs and I&I: (description)	0	N/A	N/A	Contacted PBCWUD by email; no response yet
	SSO incidents discovered	0	N/A	N/A	Contacted PBCWUD by email; no response yet
	SSO incidents resolved	N/A	N/A	N/A	Contacted PBCWUD by email; no response yet
	Inflow / infiltration incidents discovered	0	N/A	N/A	Contacted PBCWUD by email; no response yet
	Inflow / infiltration incidents resolved	N/A	N/A	N/A	Contacted PBCWUD by email; no response yet

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 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: The program includes proactive inspections for suspected illicit discharges as well as water quality sampling, if needed, to identify potential sources of illicit discharge.								
	Limitations: No limitations in the program have been identified.								
	SWMP Revisions implemented to address limitations: No revisions are proposed.								
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	N/A	N/A	N/A	N/A	None
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities			0	N/A	N/A	N/A	N/A	None
	EPCRA Title III, Section 313 facilities (TRI)			0	N/A	N/A	N/A	N/A	None
Facilities determined as high risk by the permittee			0	N/A	N/A	N/A	N/A	There are no high risk facilities within SIRWCD	
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	N/A	N/A	N/A	There are no high risk facilities within SIRWCD	
Part III.A.8 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.								
	Strengths: The program inventories high risk industry facilities and details required inspection and reporting guidelines.								
	Limitations: No limitations in the program have been identified.								
	SWMP revisions implemented to address limitations: No revisions are proposed.								
Part III.A.9.a	Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices								
	Employ ITID, NPDCID, SIRWCD Drainage Permit conditions that include the use of stormwater, erosion, and sedimentation control BMP's during construction to reduce pollutants to the MS4 and receiving waters.								

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.	
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments	
	<p align="center">PERMITTEE SITES: Construction site plans reviewed</p>	0			No new construction site plans were submitted for review during report period.	
	<p align="center">PERMITTEE SITES: Construction site plans approved</p>	0			No new construction site plans were submitted for review during report period.	
	<p align="center">PRIVATE SITES: Construction site plans reviewed</p>	2	Construction Site Plan Review Log	District Engineer	FPL pole replacement project and Estate School project.	
	<p align="center">PRIVATE SITES: Construction site plans approved</p>	2	Construction Site Plan Review Log	District Engineer	FPL pole replacement project and Estate School project.	
	Report the number of development permit applicants notified of the ERP and CGP, and the number of applicants who confirmed ERP and CGP coverage.					
	<p align="center">Notified of ERP stormwater permit requirements</p>	2	SIRWCD Logs	District Engineer	FPL pole replacement project and Estate School project.	
	<p align="center">Confirmed ERP coverage</p>	2	SIRWCD Logs	District Engineer	FPL pole replacement project and Estate School project.	
	<p align="center">Notified of CGP stormwater permit requirements</p>	2	SIRWCD Logs	District Engineer	FPL pole replacement project and Estate School project.	
<p align="center">Confirmed CGP coverage</p>	2	SIRWCD Logs	District Engineer	FPL pole replacement project and Estate School project.		

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
					project.
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	SIRWCD Logs	SIRWCD	No SIRWCD Active Construction sites
	PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	0	SIRWCD Logs	District Engineer Staff	
	PERMITTEE SITES: Percentage of active construction sites inspected	0	SIRWCD Logs	District Engineer Staff	
	PRIVATE SITES: Active construction sites	2	SIRWCD Logs	District Engineer Staff	FPL pole replacement project and Estate School project.
	PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	2	Field Reports	District Engineer Staff	
	PRIVATE SITES: Percentage of active construction sites inspected	100%	Field Reports	District Engineer Staff	
	Enforcement Action	0			
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	1	Refresher training attendance log	PBC Steering Committee Karen Brandon
	Permittee construction site plan reviewers		0	N/A	N/A
	Permittee construction site operators		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.9 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: The program requires regular inspection of construction projects with documentation of said inspections. When deficiencies in the construction site erosion control measures are noted follow up inspections are conducted to document compliance				
	Limitations: No limitations in the program have been identified.				
	SWMP revisions implemented to address limitations: No revisions are proposed.				

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.
	N/A	No changes proposed
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)
	N/A	No changes proposed

SECTION IX. TMDL Status Report

YEAR 1 Provide a table summarizing the status of the TMDL process. Include a list of prioritized TMDLs and their monitoring and implementation schedule; and include the Identification number of the outfall prioritized for TMDL monitoring.

Regarding the Pollution Reduction Plan for fecal coliform for the Southwest Fork of the Loxahatchee River, it should be noted that SIRWCD is identified as a stakeholder because Egret Landing (666 acres) was originally shown within WBID 3226C drainage boundary. However, Egret Landing discharges into the C-18 WBID 3234, which has now been amended to include Egret Landing, and is designated 3234A. Egret Landing drains through Palm Beach Country Estates which discharges to an outfall located in the C-18 WBID 3234A which discharges downstream of S-46. Additionally, Egret Landing is on sewer rather than septic tanks.

A.	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	SW Fork of the Loxahatchee River	Fecal Coliform	<input checked="" type="checkbox"/> / <input type="checkbox"/>	91	N/A	N/A	(Year 3 AR)	(Year 4 AR; N/A) if BPCP)
				<input type="checkbox"/> / <input type="checkbox"/>					
				<input type="checkbox"/> / <input type="checkbox"/>					

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).

B.	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)	See Joint Annual Report and attached Assessment Report

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):

SIRWCD is participating in the RAP for nutrients and total coliform.

South Indian River Water Control District
 MS4 Permit No. FLS000018-004
 Water Quality Assessment Report
 2019-2020 – Year 4

Overview

The purpose of this assessment program is to provide information for the South Indian River Water Control District (SIRWCD) 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. The objective of the Pollutant Loading Estimate Plan is to estimate Pollutant Loading from the MS4 contributing area based on land uses and Best Management Practices (BMPS).

SIRWCD consists primarily of low-density residential land uses. The SIRWCD’s major outfalls serve drainage areas which discharge to the Northwest Fork of the Loxahatchee River via the SIRWCD C-14 Canal and the Southwest Fork of the Loxahatchee River via the Turnpike East Borrow Canal.

Water Quality Monitoring

Monitoring Locations

Based on the location of the outfalls of the MS4, two (2) monitoring stations were originally selected SW-4 and SW-D. However, Loxahatchee River District (LRD) has ceased sampling operations downstream of SW-4. Therefore, data from an additional SIRWCD sampling point, SW 1-2, is being used to compare results with LRD. LRD has a monitoring station downstream of SW 1-2, and graphs comparing the sampling results are included in this report. The following table identifies these monitoring stations, along with relevant information about each location.

MS4 Monitoring Station Table

Monitoring Station No.	Location Description	Latitude/ Longitude	Receiving Water Body	Verified Impaired	Adopted TMDL?
SW-4	Upstream of MS4 outfall control structure on Canal 4 which discharges to Canal 14	26°55’11.82”N 80°11’28.38”W	NW Fork of Loxahatchee River	No	No
SW-D	Upstream of MS4 outfall control structure on Canal D which discharges to the Turnpike West Borrow Canal	26°54’13.47”N 80°08’27.05”W	SW Fork of Loxahatchee River	Yes	Yes
SW 1-2	Upstream of MS4 outfall control structure on Canal 2 which discharges to Canal 2	26°56’5.24”N 80°11’30.12”W	NW Fork of Loxahatchee River	No	No
WCS-2	Downstream of MS4 outfall control structure on Canal 2 which discharges to Canal 2	26°55’58.64” N 80°10’52.34” W	NW Fork of Loxahatchee River	No	No

Monitoring Station SW-4 serves an area of 1120 acres, SW 1-2 serves an area of 3440 acres, and SW-D serves an area of 2,167 acres of Palm Beach Country Estates west of the Turnpike. Land use for the basins is mainly Low Density Residential (< 3 dwelling units per acre), that is zoned Agricultural Residential. The locations of the monitoring stations are shown on the attached figure.

Trendline graphs of the annual geometric mean values were prepared for TP, TN, Chlorophyll-a and Fecal Coliform for the period from 2011-2020. The data was not evaluated to determine any irregularities. All the sample data was utilized in calculating the annual geometric mean. The SW-4 graphs indicate a downward trend in TP, and slight downward trends in TN and Chlorophyll-a, while Fecal Coliform trended upward.

At Station SW-D, the graphs indicate a downward trend in TP, TN, and Chlorophyll-a, while Fecal Coliform trended upward, mainly due to a high annual geometric mean resulting from the period between June and August.

At Station SW 1-2, there was a very slight, upward trend for TP, Chlorophyll-a, and Fecal Coliform. However, there was a slight downward trend for TN. Additionally, trend graphs were prepared comparing the annual geometric mean values for TP, TN, Chlorophyll-a and Fecal Coliform for the period from 2011-2020 at SW 1-2 with Loxahatchee River District’s monitoring station, WCS2, located downstream of the structure on Canal 2. Other than for TP and Fecal Coliform, both stations show a very slight upward trend. There is not much correlation between the upstream and downstream monitoring results.

Pollutant Loading Estimate

The Palm Beach County MS4 permittee group developed pollutant loading estimates during the 3rd year of this permit cycle, using the SIMPLE protocol. The pollutant loading estimates were presented in the report titled, *the Summary of Average Annual Pollutant Loading Model Activities* dated 2019 by Mock Roos. The group provided each permittee with pollutant loading estimates that reflect their respective MS4 areas based on the study by Mock Roos. The group’s estimated pollutant loading results, based on land use and BMPs, was provided to each permittee for use in this assessment effort. The results from the study are summarized in the table below and include a 6% reduction for public education as allowed by FDEP. The Palm Beach County MS4 Group conducts public outreach programs throughout the year.

South Indian River Water Control District Pollutant Loads (lbs/yr)						
	BOD ₅	TSS	TP	TN	Cu	Zn
2013	187,758	306,714	11,131	228,807	389	1,389
2018	189,438	302,160	11,115	229,054	388	1,398
After 6% Reduction	178,072	284,030	10,448	215,311	365	1,314
	9,686	22,684	683	13,496	24	75
Total Reduction	5.1%	7.3%	6.1%	5.9%	6.2%	5.4%

The pollutant loading estimates indicate lower pollutant loadings over the past two permit cycles. SIRWCD's estimated pollutant loads make up 36.52% of the MS4 total load within the Loxahatchee Watershed and the combined MS4 area within the Loxahatchee Watershed represents 56.61% of the total basin loads.

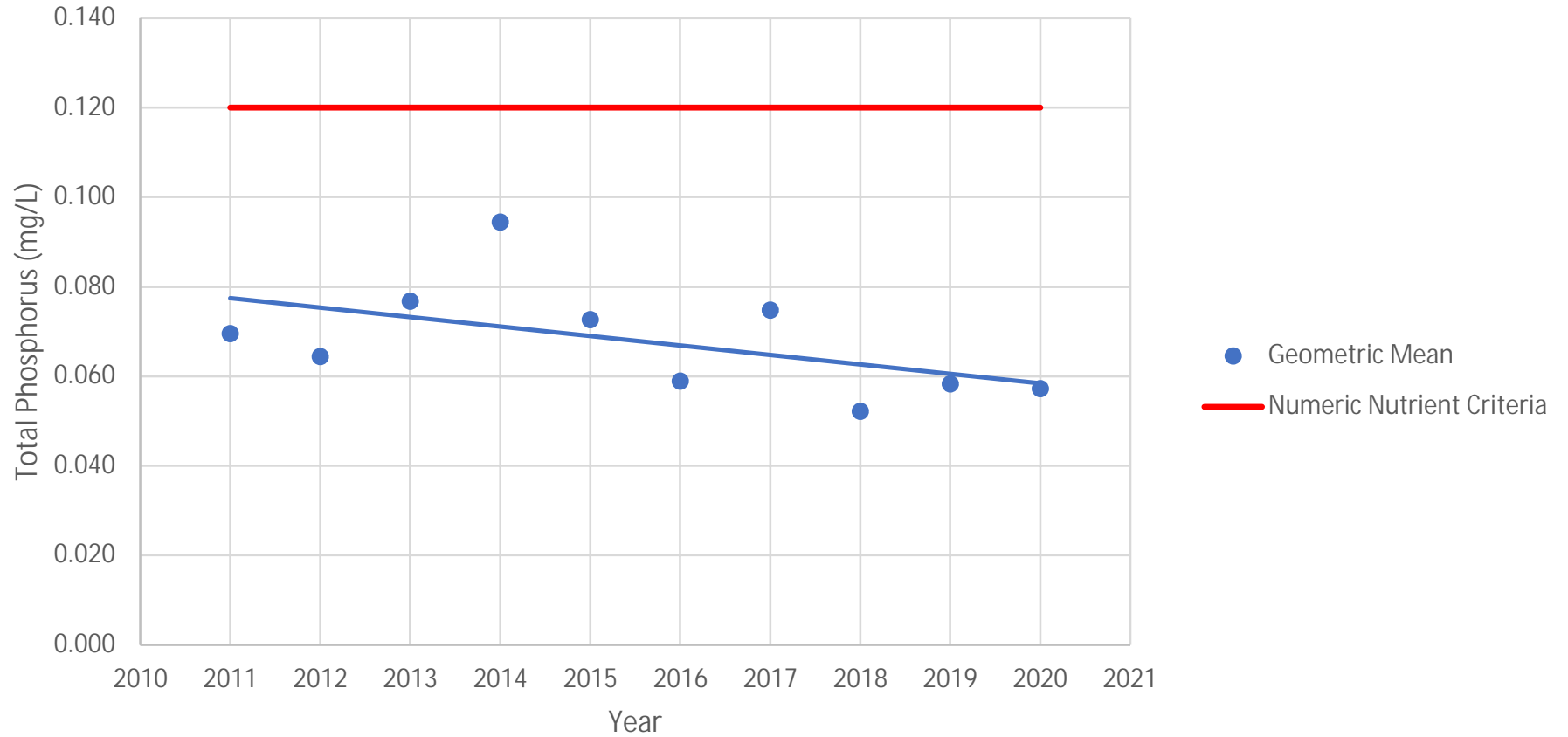
Evaluation and Response Plan

The first Annual Water Quality Assessment Report was prepared concurrent with the Year 3 Annual Report Form (March 2020). The pollutant loading estimates developed during Year 3 of the permit cycle have been reviewed and compared with the previous permit cycle, with respect to the MS4. In addition, water quality trending graphs for various parameters were prepared based on water quality data collected over the past ten years and have been reviewed and summarized. Additionally, SIRWCD monitoring data for SW 1-2 was compared to the LRD data for WCS-2 collected downstream of the outfall structure on Canal 2 for the same period as a check.

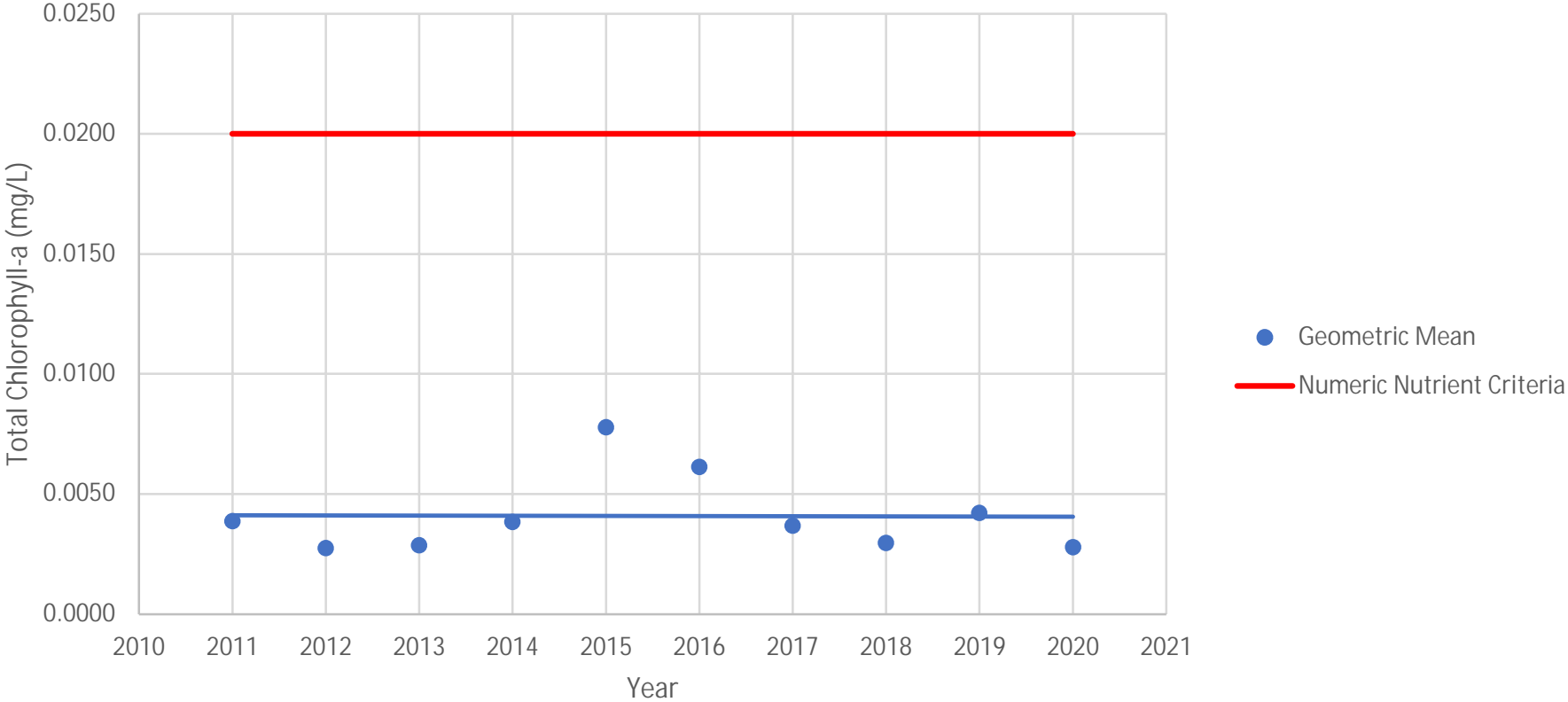
Based on the data from the water quality monitoring and pollutant loading estimates, there is a general reduction in nutrients. Therefore, based on the evaluation herein, it can be concluded that SIRWCD's Stormwater Management Programs (litter control, public education, maintenance and construction inspections, etc.) are effective, and as a result, SIRWCD is not proposing any areas of the MS4 that need further improvement in load reduction.

Regarding the Pollution Reduction Plan for fecal coliform for the Southwest Fork of the Loxahatchee River, it should be noted that SIRWCD is identified as a stakeholder because Egret Landing (666 acres) was originally shown within the WBID 3226C drainage boundary. However, Egret Landing discharges into the C-18 WBID 3234, which has now been amended to include Egret Landing, and is designated 3234A. Egret Landing drains through Palm Beach Country Estates which discharges to an outfall canal located in the C-18 WBID 3234A which discharges downstream of S-46. Additionally, Egret Landing is on sewer rather than septic tanks.

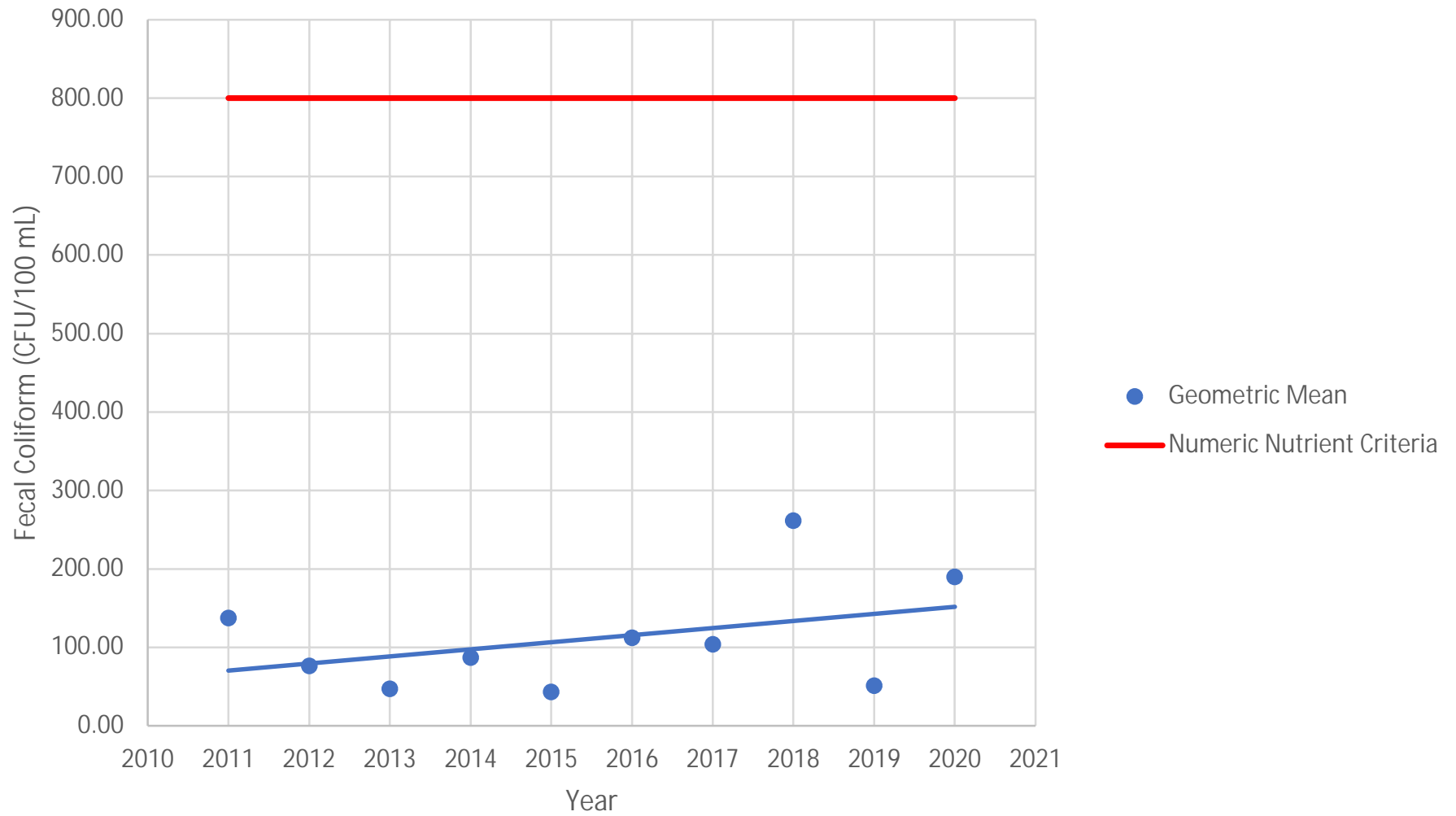
SW-4: Phosphorus Annual Geometric Mean



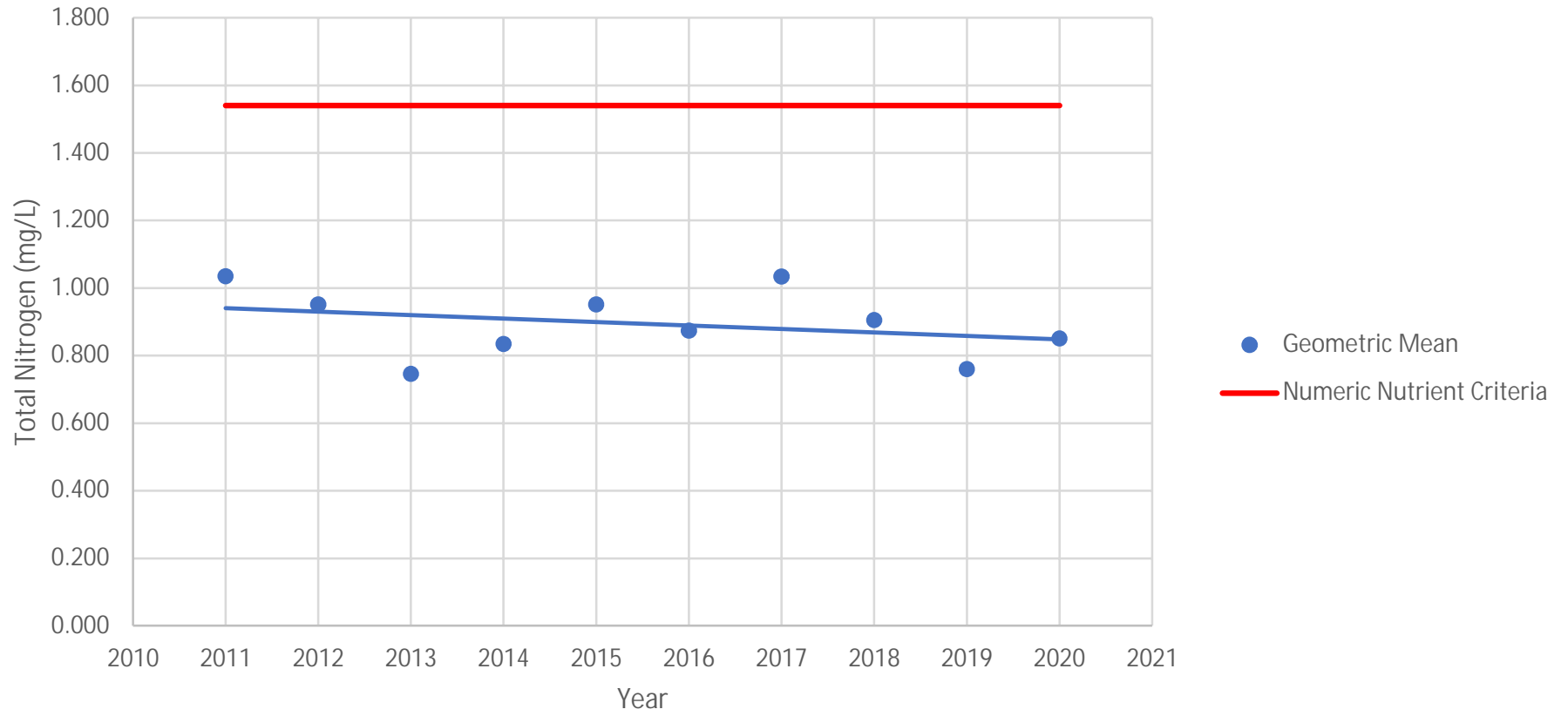
SW-4: Chlorophyll-a Annual Geometric Mean



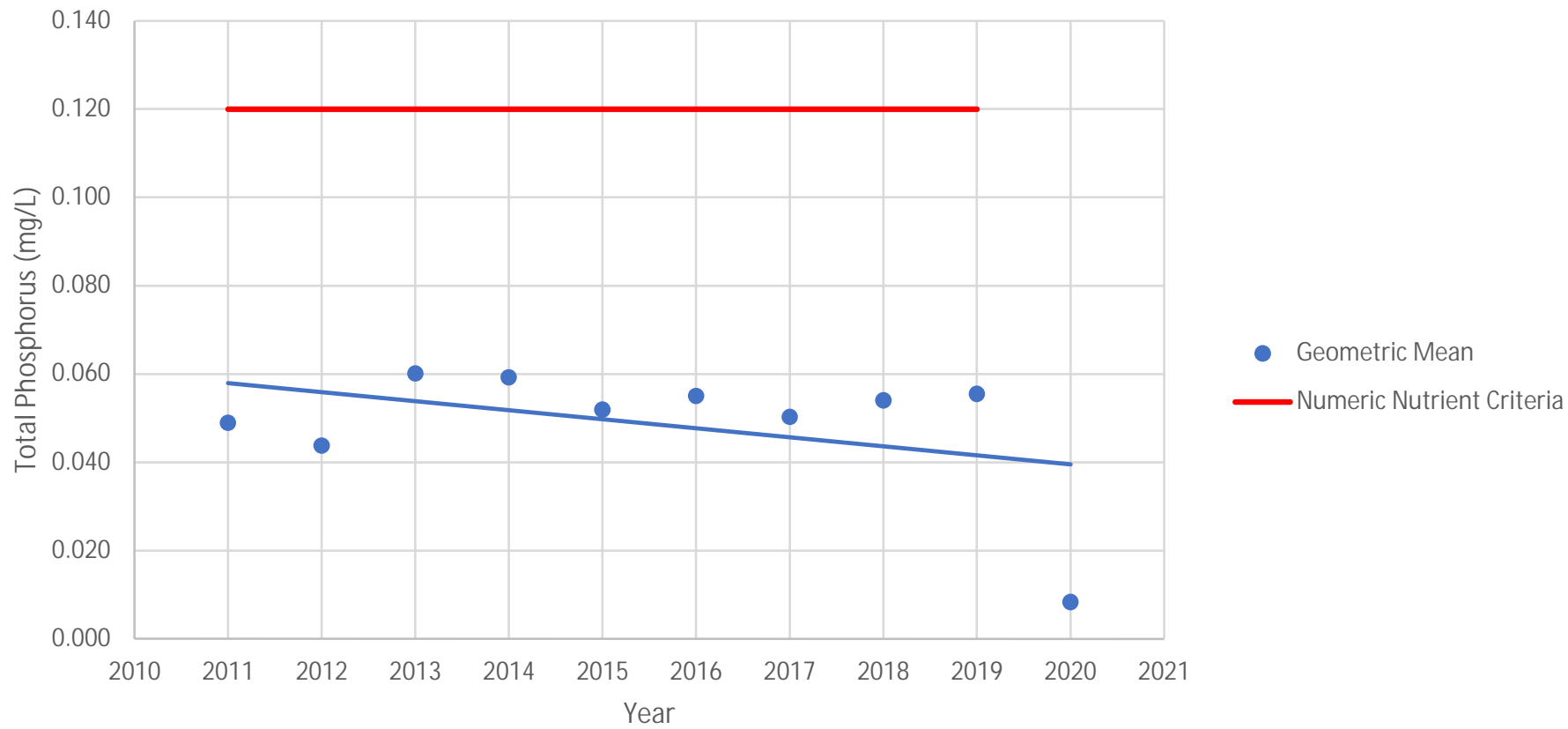
SW-4: Fecal Coliform Annual Geometric Mean



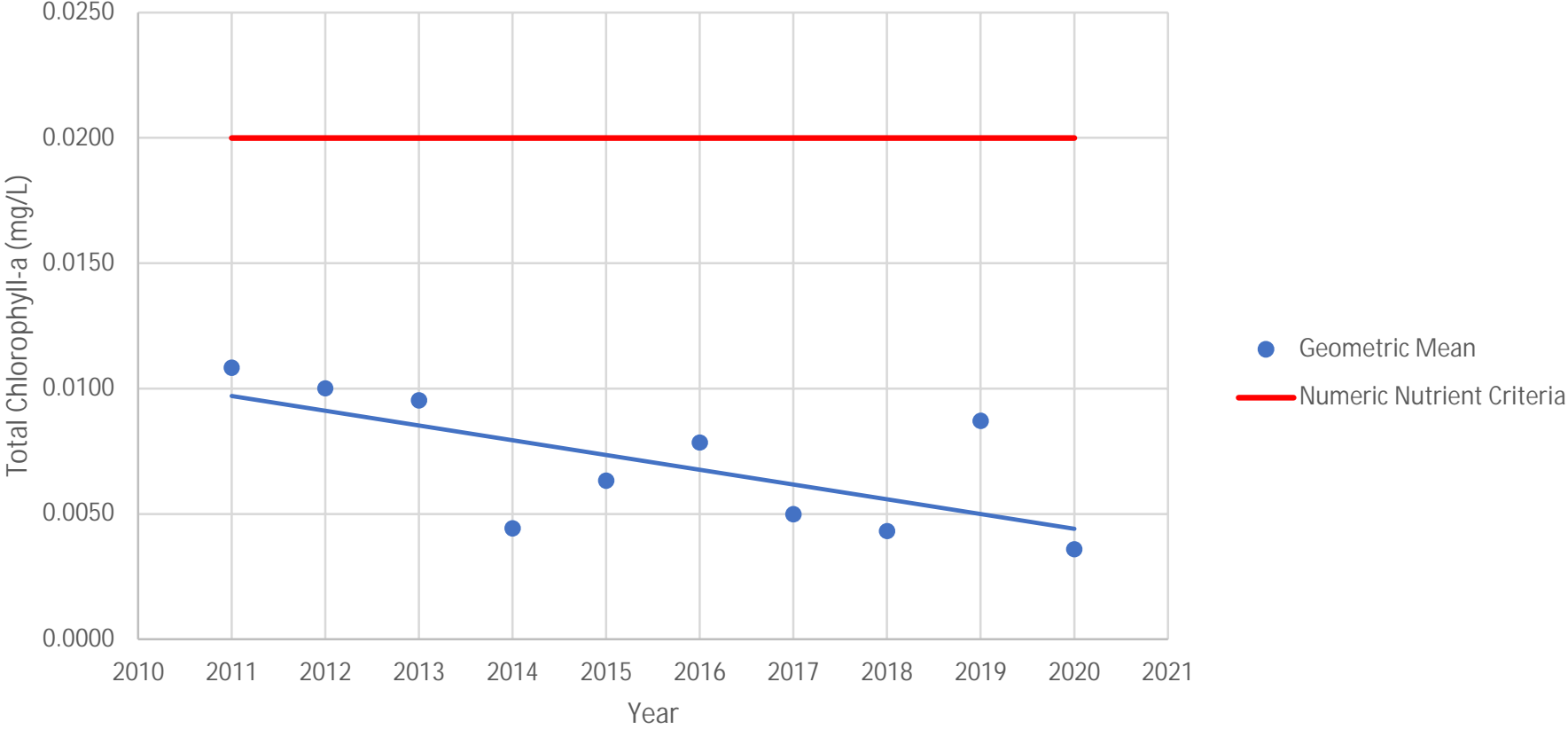
SW-4: Nitrogen Annual Geometric Mean



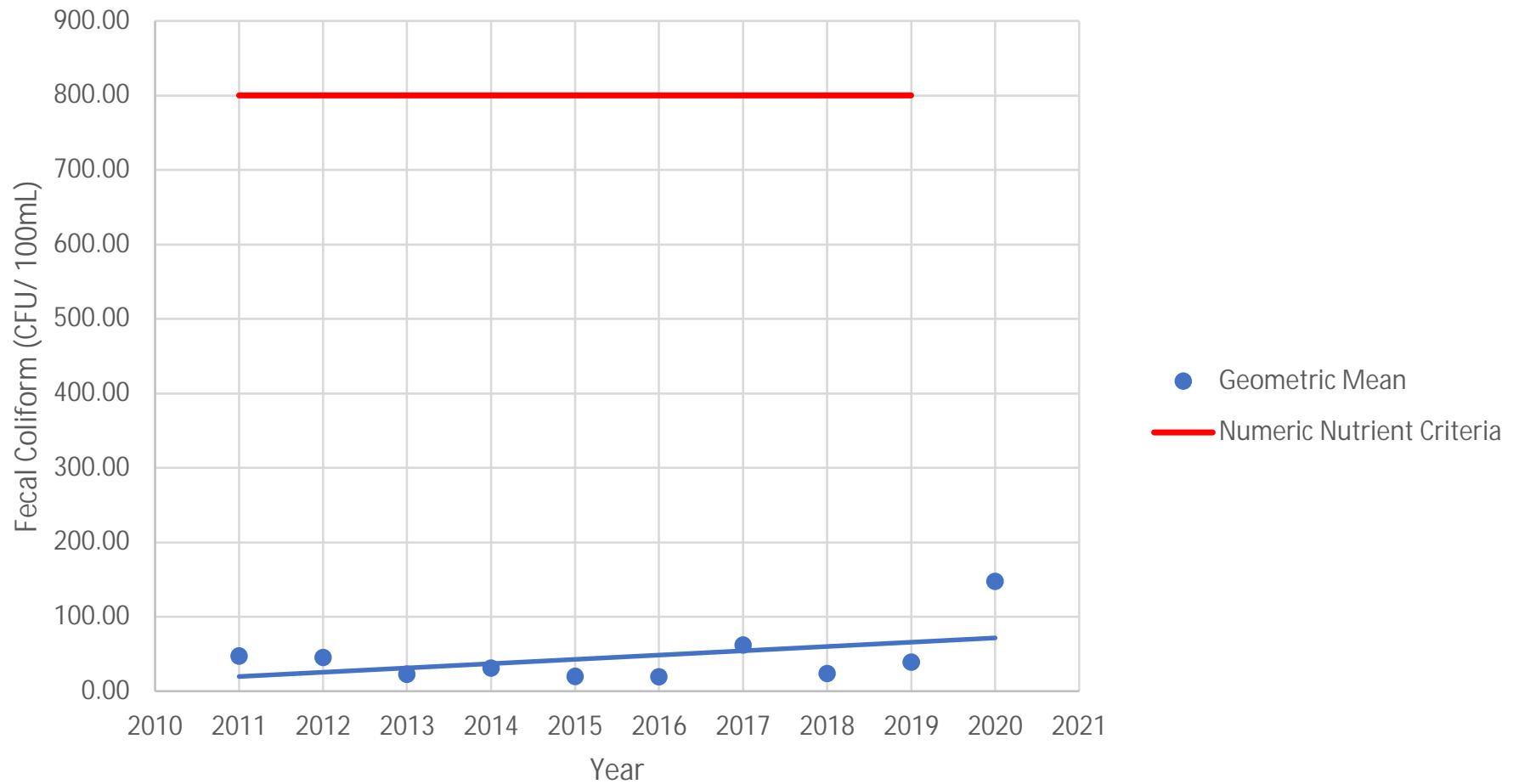
SW-D: Phosphorus Annual Geometric Mean



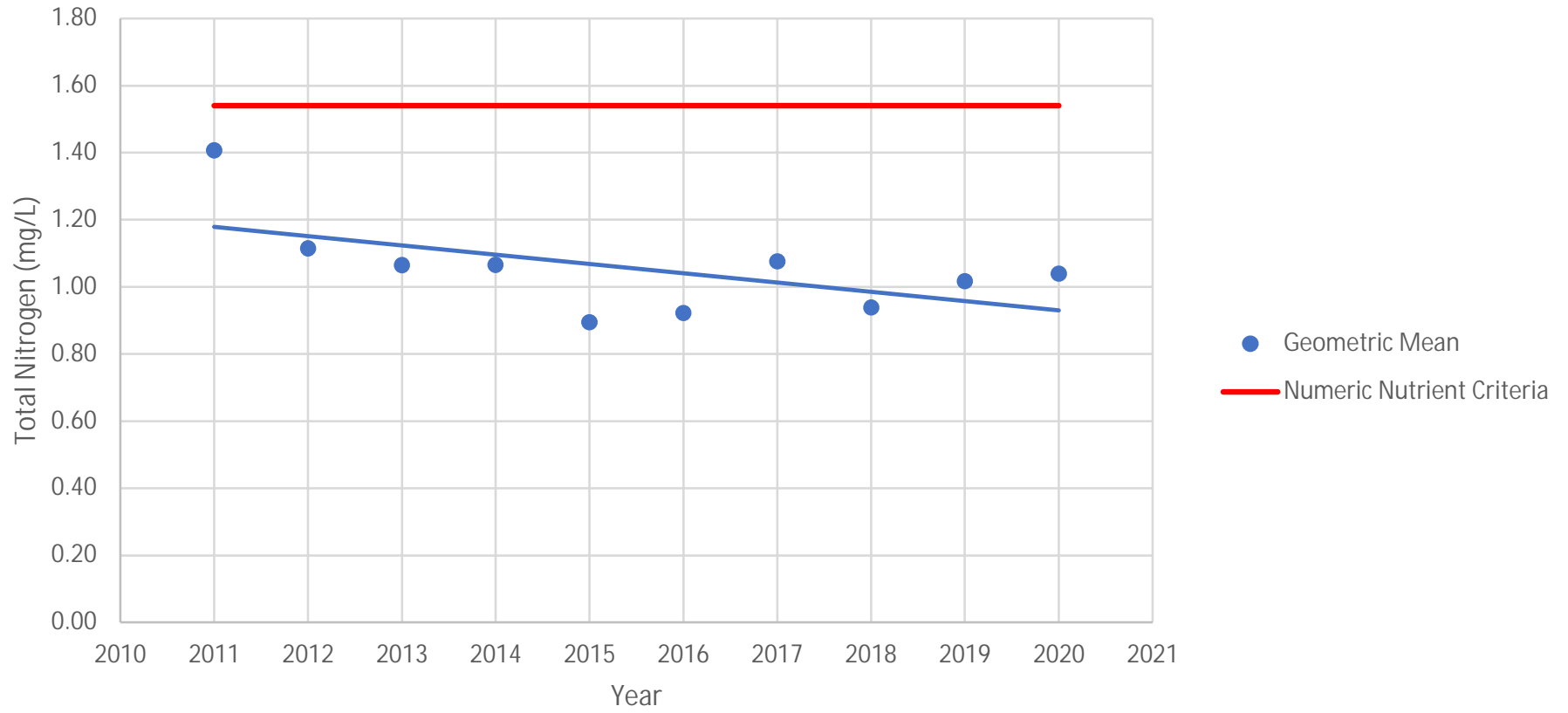
SW-D: Chlorophyll-a Annual Geometric Mean



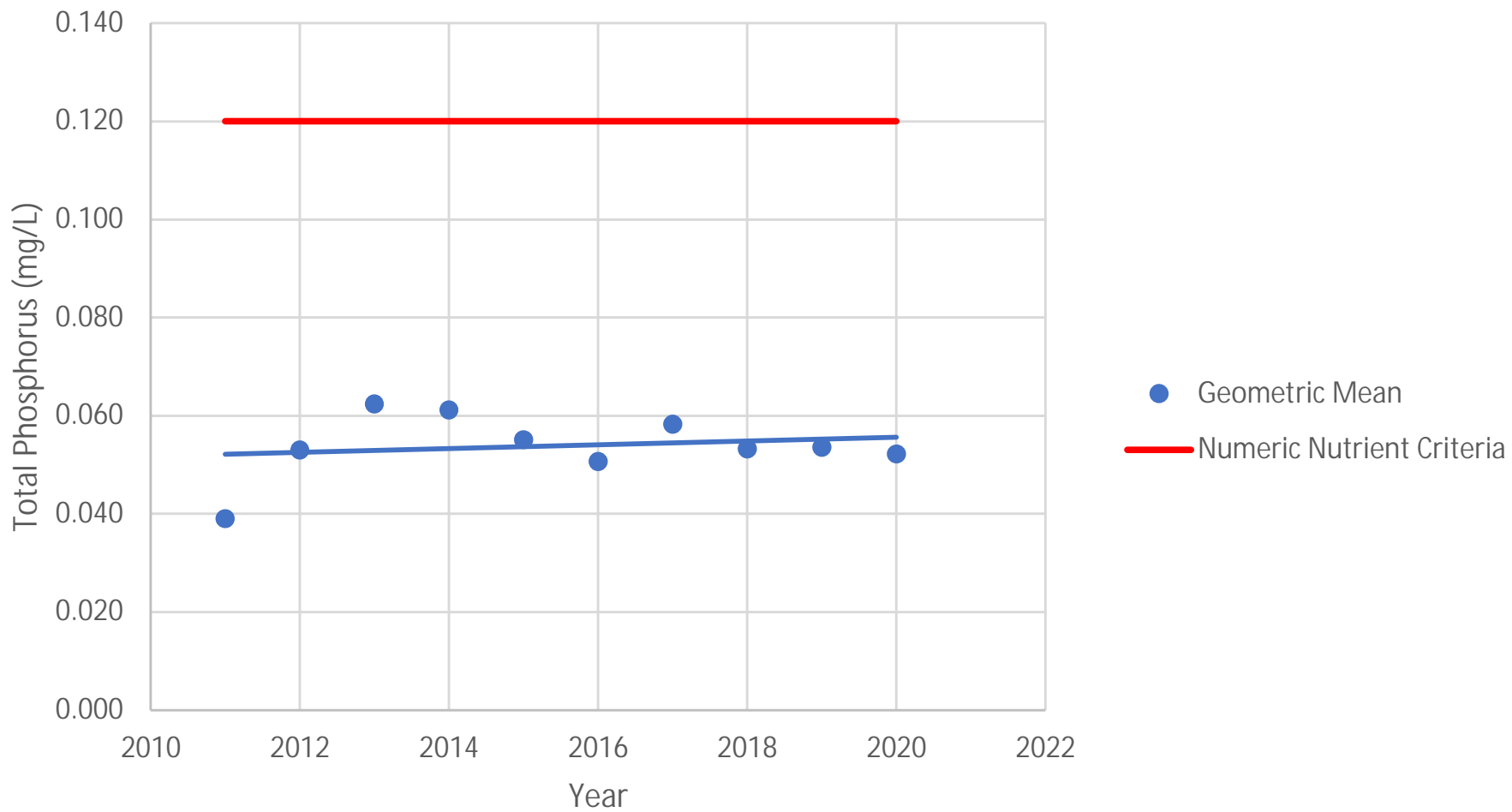
SW-D: Fecal Coliform Annual Geometric Mean



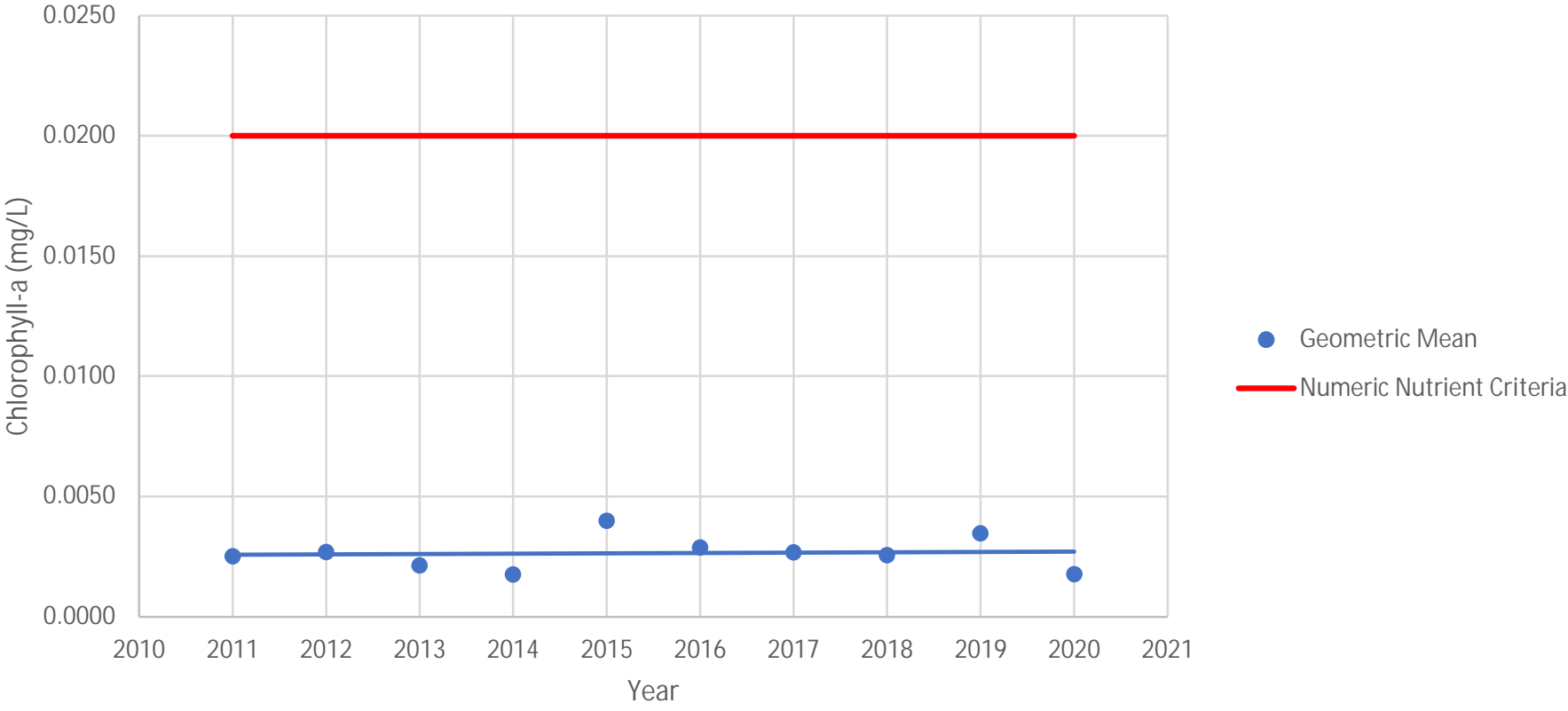
SW-D: Nitrogen Annual Geometric Mean



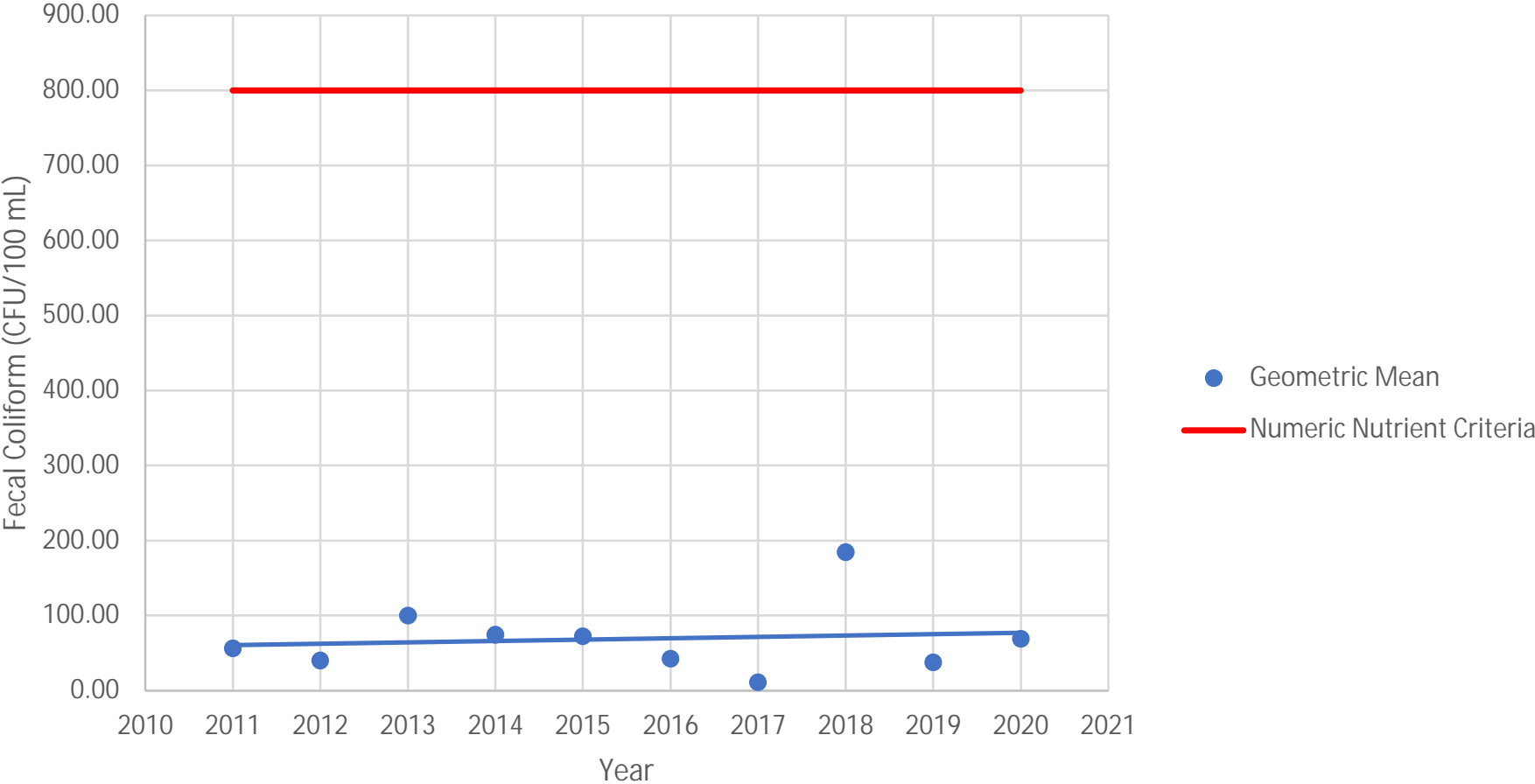
SW-1-2: Phosphorus Annual Geometric Mean



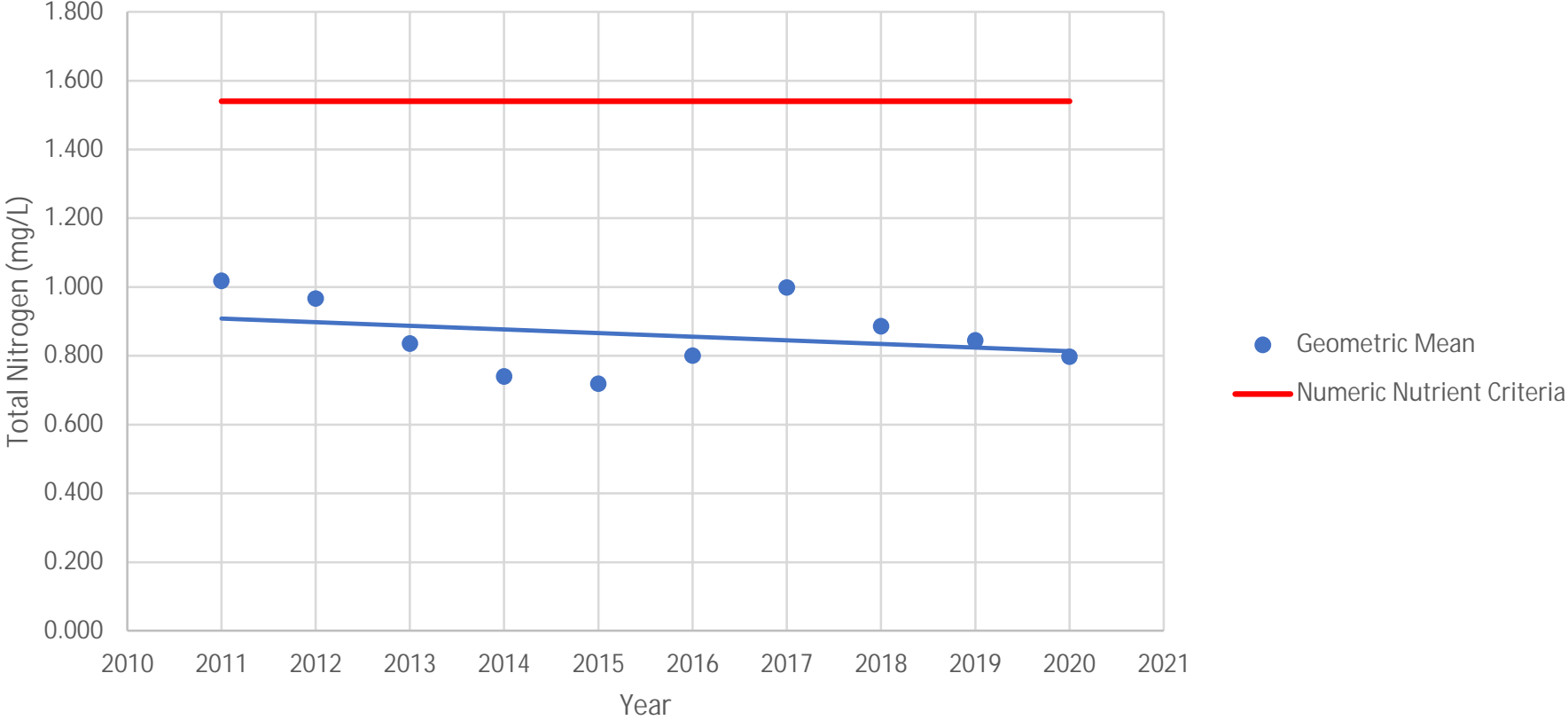
SW-1-2: Chlorophyll-a Annual Geometric Mean



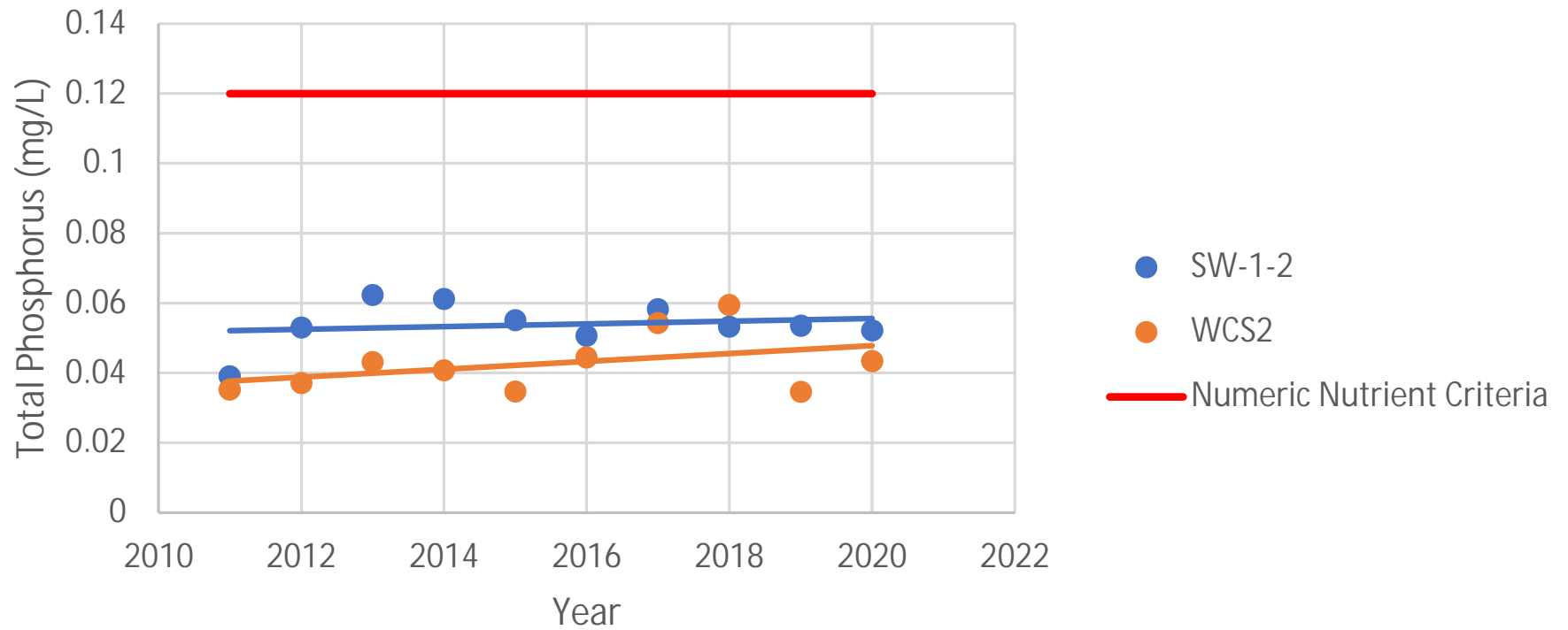
SW-1-2: Fecal Coliform Annual Geometric Mean



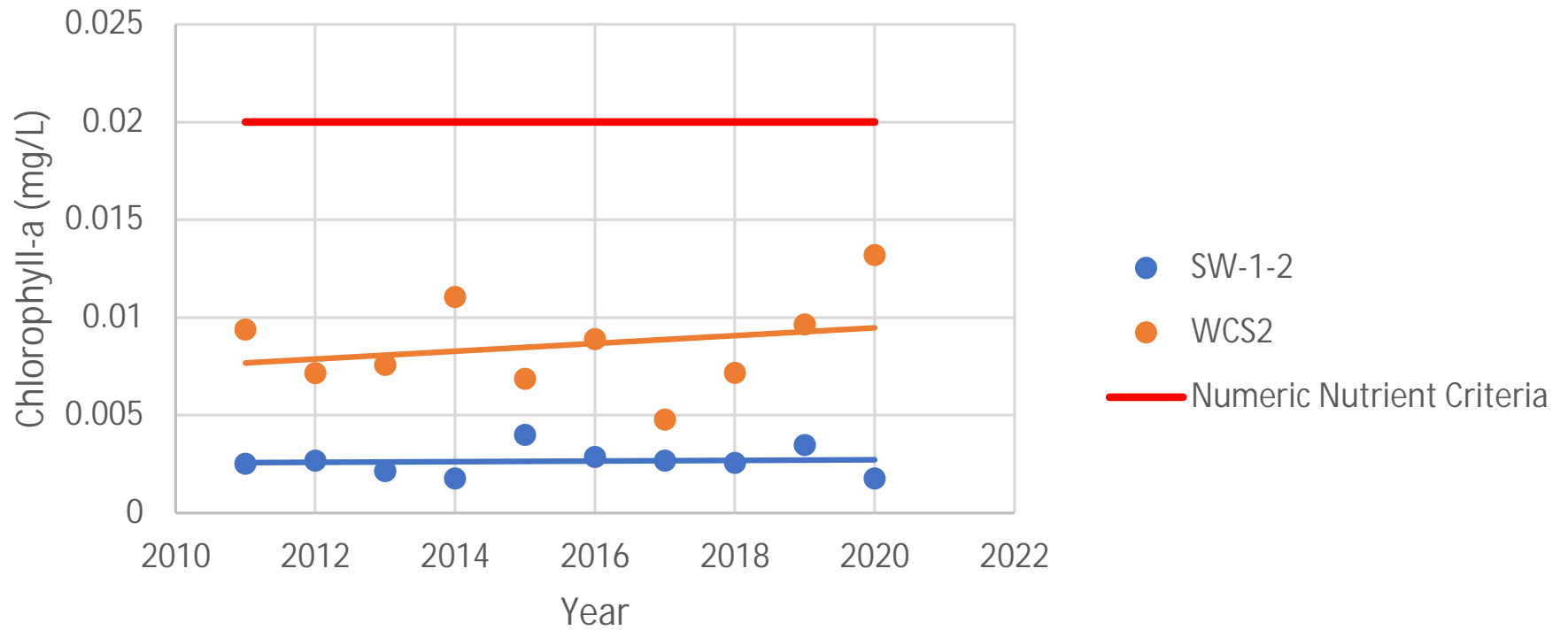
SW-1-2: Nitrogen Annual Geometric Mean



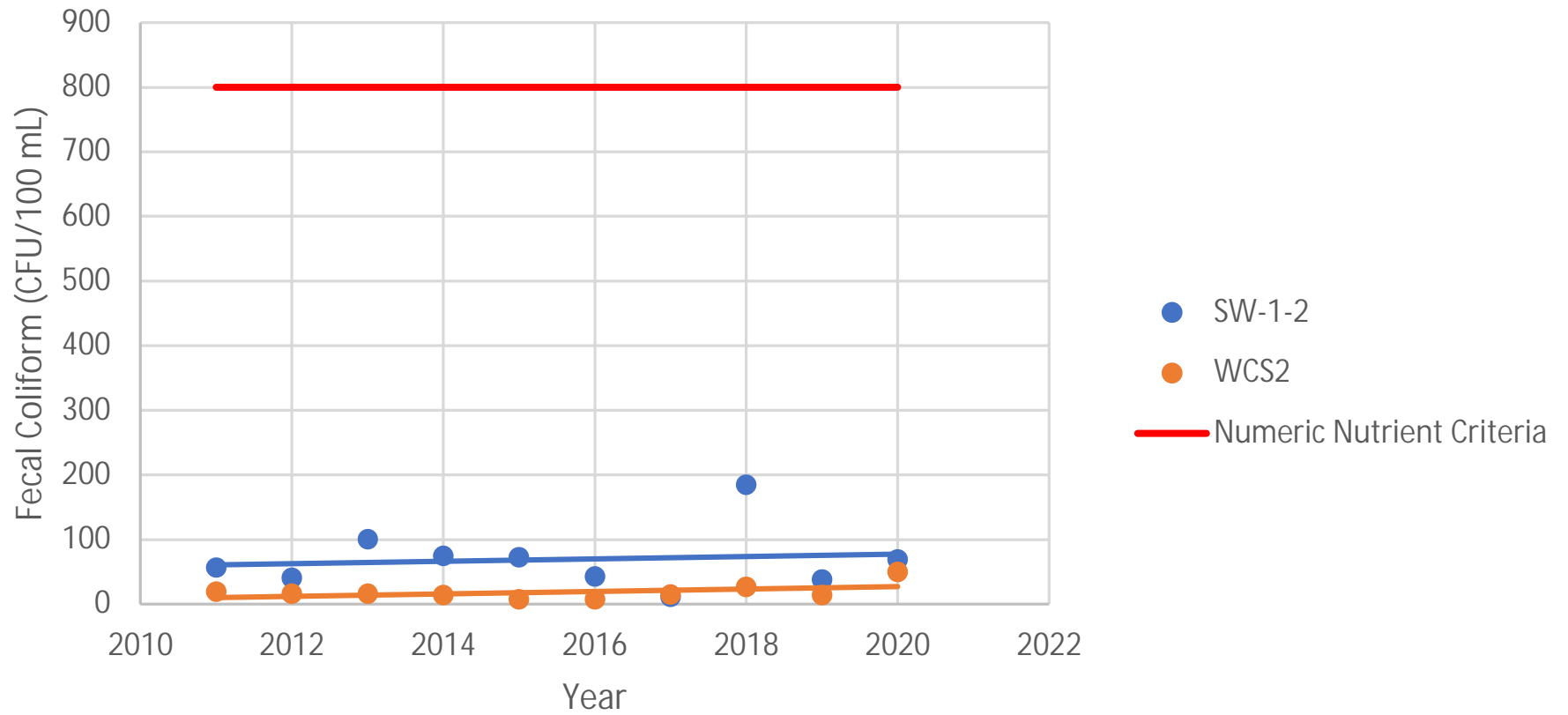
Total Phosphorus Comparison: SW-1-2 and WCS2



Chlorophyll-a Comparison: SW-1-2 and WCS2



Fecal Coliform Comparison: SW-1-2 and WCS2



Total Nitrogen Comparison: SW-1-2 and WCS2

