

CITY OF VENICE

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City of Venice NPDES MS4 Annual Report - 2024



Prepared by City of Venice Engineering/Stormwater Department

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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 (<https://floridadep.gov/water/stormwater/content/npdes-stormwater-permitting-program-contacts>). 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: Sarasota County Co-permittee – CITY OF VENICE		
B.	Permit Name: Sarasota County MS4		
C.	Permit Number: FLS000004-005		
D.	Annual Report Year: <input type="checkbox"/> Year 1 <input type="checkbox"/> Year 2 <input type="checkbox"/> Year 3 <input type="checkbox"/> Year 4 <input type="checkbox"/> Year 5 <input checked="" type="checkbox"/> Other, specify Year: 6		
E.	Reporting Time Period (month/year): 1/ 2024 through 12 / 2024		
F.	Name of the Responsible Authority: Edward Lavallee		
	Title: City Manager		
	Mailing Address: 401 W. Venice Ave		
	City: Venice	Zip Code: 34285	County: Sarasota
	Telephone Number: 941-882-7399		Fax Number: 941-480-3031
G.	E-mail Address: elavallee@venicefl.gov		
	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Steven Berens, P.E.		
	Title: Stormwater Engineer		
	Department: Engineering		
	Mailing Address: 401 W. Venice Ave		
	City: Venice	Zip Code: 34285	County: Sarasota
	Telephone Number: 941-882-7413		Fax Number: N/A
E-mail Address: sberens@venicefl.gov			

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): 1 (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 checked="" type="checkbox"/> No <input 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 assessment program, permittee may refer to a joint response as defined by the interlocal agreement.</i></p> <p>Name and date of the approved plan: Sarasota County NPDES MS4 Assessment Program: December 2019, Approved: January 24, 2020 (Contract No. 2019-129) Status: Please reference the following links for the status of water quality monitoring plan implementation.</p> <p>1. <i>Ambient Water Quality of Bays:</i> http://www.sarasota.wateratlas.usf.edu/bay-conditions/ http://www.sarasota.wateratlas.usf.edu/water-quality-trends/</p> <p>2. <i>Ambient Water Quality of Watersheds:</i> http://www.sarasota.wateratlas.usf.edu/creek-conditions/ http://www.sarasota.wateratlas.usf.edu/water-quality-trends/</p> <p>3. <i>Biological Monitoring – Oysters:</i> http://www.sarasota.wateratlas.usf.edu/oysters/</p> <p>4. <i>Biological Monitoring – Seagrass:</i> http://www.sarasota.wateratlas.usf.edu/seagrass/#sarasota-seagrass</p> <p>5. <i>Biological Monitoring – Scallops:</i> http://dev.sarasota.wateratlas.usf.edu/scallops#monitoring-program</p> <p>6. <i>Rainfall:</i> http://www.sarasota.wateratlas.usf.edu/rainfall/ http://www.sarasota.wateratlas.usf.edu/datamapper/</p>
B.	<p>Provide a brief discussion of the assessment program (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>See Attachment #1</p> <p>1. <i>Dona/Roberts Bay received a Caution rating for 2024. Total Nitrogen, and Chlorophyll a received a Caution rating after two consecutive years of Excellent ratings. Total Phosphorus received an Excellent rating, which has been the trend for many years.</i></p> <p>2. <i>Hatchett Creek received a Pass rating in 2024. Curry Creek received a Caution rating in 2024 due to a low Dissolved Oxygen level. The Dissolved Oxygen Saturation in the tidal portion of Curry Creek fell to an annual mean of 55.8%, just below the 56.00% threshold.</i></p> <p>3. <i>The oyster monitoring site CC1 received a Good rating for 2024, down from the Excellent rating in 2023. Site CC2 received a Good rating for 2024, up from the Caution rating in 2023. Site RB1 received a Good rating for 2024, down from the Excellent rating in 2023. Site DB1 received a Good rating for 2024, down from the Excellent rating in 2023.</i></p> <p>4. <i>Dona/Roberts Bay saw a +46% change in seagrass acreage from 2022 to 2024.</i></p> <p>5. <i>County-wide, the number of spat landings fell dramatically from 2023 to 2024, but Dona/Roberts Bay saw an increase in the number of spat landings from 2023 to 2024. Dona/Roberts Bay saw the highest number of spat landings of any of the bays in the county with 33.</i></p> <p>6. <i>In 2024, approximately 63 inches of rain fell County-wide, up significantly from 36 inches in 2023.</i></p>
C.	<p>Attach a monitoring data summary as required by the permit. An analysis of the data discussing changes in water quality and/or stormwater pollutant loading from previous reporting years. <i>DEP Note: Analysis must be specific to the permittee's SWMP.</i></p> <p>See Attachment #1</p>

SECTION IV. FISCAL ANALYSIS

A.	Total expenditures for the NPDES stormwater management program for the current reporting year: \$2,745,756.00
B.	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$6,246,835.00
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>N/A</p>

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

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

Attached	N/A	Required Attachments	Permit Citation	Attachment Number/Title
<input 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	Attachment #1
<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 2: A copy of the adopted Florida-Friendly Fertilizer ordinance (if applicable).	Part III.A.6	
<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	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: A report on any amendments to the applicable legal authority (if applicable).	Part III.A.7.a	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: Permit re-application information in accordance with Rule 62-624.420(2), F.A.C. <ul style="list-style-type: none"> The assessment program (with revisions, if applicable). If the total annual pollutant loadings have not decreased over the past two permit cycles, revisions to the SWMP, as appropriate. 	Part V.B.3 Part V.A.3	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	YEAR 4: TMDL Supplemental SWMP (if applicable).	Part VIII.B.3	

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

SECTION VI. CERTIFICATION STATEMENT AND SIGNATURE

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

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

Name of Responsible Authority (type or print): Edward Lavallee

Title: City Manager

Signature: 

Date: 08,20,2025

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SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE										
A.	B.		C.			D.	E.	F.		
Permit Citation/SW MP 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									
	Report the current known inventory.									
	Report the number of inspection and maintenance activities conducted for each applicable type of structure included in Table II.A.1.a, and the percentage of the total inventory of each type of structure inspected and maintained.									
	Note: Delete structures that are not in your MS4's inventory. The permittee may choose its own unit of measurement (miles, linear feet, acres, etc) for each structural control to be consistent with the unit of measurement in the documentation.									
	Type of Structure	Number of Structures	Number of Inspections	Percent Inspected	Number of Maintenance Activities	Percent Maintained				
	Dry retention systems	5	Inspection Schedule: New Systems (NS) = Annually. Existing Systems (Ex.) = Once every 3 years		Maintenance: As Needed				Per the SOP: 6 additional systems are maintained and inspected by the County, under 2011 Interlocal Agreement.	
	City Hall (Ex.)		1	100%	2	100%	COV MS4 Inspection Schedule, PW Mass Activity Report, Slope Mowing, SW Mowing, Workforce Assignments, Illicit Discharge Inspections	COV Eng. / SW, COV Parks	Maintenance by Parks division	
	Fire Station # 2 (Ex.)		1	100%	14	100%			Graser Park drainage mowing no longer reported by Parks	
	Graser Park (Ex.)		1	100%	0	0%			Stormwater mowing route, slope mowing route	
	Seaboard Ave. Industrial Area (Ex.)		15	100%	10	100%			Formerly Police Station, stormwater mowing route	
	Public Works (Ex.)		5	100%	4	100%				
	Underdrain filter systems		N/A							
	Exfiltration trench / French drains (lf)		N/A							
	Grass treatment swales (miles)		Inspection Schedule: New Systems (NS) = Annually. Existing Systems (Ex.) = Once every 3 years		Maintenance: As Needed					

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Part III.A.1	Structural Controls and Stormwater Collection Systems Operation									
	Laurel Ave / Cypress Ave (Ex.)		1	100%	0	0%	COV MS4 Inspection Schedule	COV Eng. / SW		
	Dry detention systems	N/A								
	Wet detention systems	3	Inspection Schedule: New Systems (NS) = Annually. Existing Systems (Ex.) = Once every 3 years		Maintenance: As Needed				Per the SOP: 1 additional system is maintained and inspected by the County, under 2011 Interlocal Agreement.	
	Water Plant Pond (Ex.)		13	100%	12	100%	COV MS4 Inspection Schedule, SW Mowing, Service Reports	COV Eng., The Lake Doctors, Inc.		
	Ruscelletto Pond (Ex.)		22	100%	19	100%		COV Eng. / SW, SOLitude Lake Management		
	Fire Station #3 (Ex.)		10	100%	8	100%		COV Eng. / SW		
	Detention with filtration systems	N/A								
	Alum Injection systems	N/A								
	Pollution control boxes	3	Inspection Schedule: Quarterly		Maintenance: As Needed					
	Alhambra CDS Box (Ex.)		4	100%	2	100%	Stormwater Inspection Form, Workforce Assignments	COV Eng. / SW		
	Osprey Ditch Baffle Box (Ex.)		4	100%	3	100%				
	Bella Costa Baffle Box (Ex.)		4	100%	2	100%				
	Pump stations	3	Inspection Schedule: Semi-annually		Maintenance: As Needed					
	# 1 - Outfall 1 (Ex.)		12	100%	1	0%	Pump Station Monitoring Log, Workforce Assignments	COV Eng. / SW, Utilities		
	#2 - Outfall 2 (Ex.)		11	100%	0	100%				
	#3 - West Gate Dr. (Ex.)		11	100%	1	100%				
	Major outfalls	16	Inspection Schedule: Annually		Maintenance: As Needed					

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SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE											
A.	B.	C.					D.	E.	F.		
Permit Citation/SW MP 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										
	Outfall 1		2	100%	0	100%	COV MS4 Inspection Schedule, Workforce Assignments, Beach Water Quality Surveys, SeeClickFix requests	COV Eng. / SW	Beach outfalls monitored weekly, no data entry, two post-hurricane inspections w/ USACE		
	Outfall 2		7	100%	2	100%					
	Outfall 4		1	100%	0	100%					
	Outfall 5 (Flamingo Ditch)		6	100%	2	0%					
	Outfall 7		1	100%	0	0%					
	Outfall 8 (Deertown Gully)		3	100%	2	0%					
	Outfall 1400		41	100%	1	0%			Repair completed in 2024		
	Outfall 1700		1	100%	0	0%					
	Outfall 1800		1	100%	0	0%					
	Outfall 2001		1	100%	0	0%					
	Outfall 2301		1	100%	0	0%					
	Outfall 11180		1	100%	0	0%					
	Outfall 11831		1	100%	0	0%					
	Outfall 11200		1	100%	0	0%					
	Outfall 11213		1	100%	0	0%					
	Weirs or other control structures (Inspection schedule: 10% per annum)	0	N/A	N/A	N/A	N/A	Number of structures changed from 8 to 0, per request from Matt Irwin (9/29/23). The control structures are all associated with the retention and detention systems that are also reported on, and are inspected as such.				
	Pipes / culverts (miles) (Inspection schedule: 10% per annum)	25	1.5	6%	0.8	3%	CCTV inspection reports, Pictures	COV Eng. / SW			
	Canals	N/A									
	Inlets / catch basins / grates (Inspection schedule: 10% per annum)	1233	364	30%	115	9%	Inlet Cleaning Reports, Workforce Assignments	COV Eng. / SW			
	Ditches / conveyance swales (miles) L = Large Ditch R = Residential Ditch		Inspection Schedule: Residential (R): 10% per annum Larger ditches (L): Quarterly		Maintenance: As Needed						
	Osprey Ditch (L)		11	100%	9	100%	Stormwater Inspection Forms, Slope Mowing, SW Mowing, Invoices, Workforce Assignments, SeeClickFix requests	COV Eng. / SW, Rick Richards Inc.	Maintained by Rick Richards Inc. and PW		
	Robert St.(R)		6	100%	4	100%		COV Eng. / SW			

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A.	B.	C.					D.	E.	F.	
Permit Citation/SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed					Documentation / Record	Entity Performing the Activity	Comments	
Part III.A.1	Structural Controls and Stormwater Collection Systems Operation									
	Cooper St.(R)		0	0%	0	0%	Stormwater Inspection Forms, Slope Mowing, SW Mowing, Invoices, Workforce Assignments, SeeClickFix requests	COV Eng. / SW	Maintenance by adjacent homeowner	
	Bellagio(L)		5	100%	0	100%			Maintenance by Bellagio contractor	
	Ridgewood Ave.(L)		4	100%	4	100%				
	Wellfield Ditch(L)		4	100%	3	100%				
	Heritage Health Care(L)		9	100%	6	100%				
	If the minimum inspection frequencies set forth in Table II.A.1.a. were not met, provide an explanation of why they were not and a description of the actions that will be taken to ensure that they will be met.		Pipe/culvert inspection minimum not met due to staff time/resources being allocated to Hurricane Helene and Hurricane Milton recoveries late in the year. The City's Stormwater Crew, with our CCTV truck and vac truck, primarily conduct pipe inspection outside of the rainy season, when it can be done most effectively. Storm recovery efforts greatly limited the amount of time staff could devote to pipe inspections at the time when we had planned to conduct them.							
Part III.A.1 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.									
	Strengths: The City's Stormwater Crew has a functional vac truck, CCTV truck, and sweeper truck. We are now using a new work order tracking system: Cityworks									
	Limitations: Lag time between operational work order tracking systems caused some difficulty in 2024. This should not be an issue going forward.									
	SWMP revisions implemented to address limitations: None.									

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Permit Citation/SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.2	Areas of New Development and Significant Redevelopment				
	Report the number of significant development projects, including new and redevelopment, reviewed and approved by the permittee for post-development stormwater considerations.				
	Number of significant development projects reviewed	15	Construction Plan Approval	COV Eng.	Includes 2 plan modifications. The 1 reviewed project not approved was approved in 2024.
	Number of significant development projects approved	15			
	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				
	Year 4 ONLY: Attach the follow-up report on plan implementation				
Part III.A.2 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: The City has a thorough review process, in which multiple Engineering staff QA/QC the development plans to ensure that all necessary protections and BMP measures are in place.				
	Limitations: None.				
	SWMP revisions implemented to address limitations: None.				

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Permit Citation/SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.3	Roadways				
	<p>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.</p> <p>Note: If the permittee does not contract activities, delete CONTRACTOR activities.</p>				
	PERMITTEE Litter Control: Frequency of litter collection	Everyday	Emails from Public Works and Solid Waste	COV PW: Parks and Solid Waste	Parks litter collection is 7 days a week and 15 special events by Solid Waste
	PERMITTEE Litter Control: Estimated amount of area maintained (lf)	352,000	Email from Public Works		Includes all City Parks, ROWs, Downtown, and special events. Value is ROW centerline mileage
	PERMITTEE Litter Control: Estimated amount of litter collected (tons)	68.9	Emails from Public Works and Solid Waste		55.9 tons (Parks), 13.0 tons (Solid Waste)
	CONTRACTOR Litter Control: Frequency of litter collection	N/A			
	CONTRACTOR Litter Control: Estimated amount of area maintained (lf)	N/A			
	CONTRACTOR Litter Control: Estimated amount of litter collected (cy)	N/A			
	OPTIONAL: If an Adopt-A-Road or similar volunteer program is implemented, report the total number of road miles cleaned and an estimate of the quantity of litter collected. If you do not participate in an Adopt-A-Road program, report "0".				
	Trash Pick-up Events: Total miles cleaned	12	Email from KSCB	Keep Sarasota County Beautiful	
	Trash Pick-up Events: Estimated amount of litter collected (tons)	0.32	Emails from KSCB, Suncoast Reef Rovers	Keep Sarasota County Beautiful, Suncoast Reef Rovers	
	Adopt-A-Road: Total miles cleaned	2	Email from KSCB	Keep Sarasota County Beautiful	
	Adopt-A-Road: Estimated amount of litter collected (tons)	0.09			
	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	4 days/week, 50 weeks/year	Sweeping Logs	COV PW Stormwater	

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Permit Citation/SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Total miles swept	5,276	Annual Sweeper Report	COV PW Stormwater	
	Estimated quantity of sweeping material collected (cy / tons)	515.37			
	Total phosphorous loadings removed (pounds)	329	FSA/Bateman Assessment Tool	COV PW Stormwater	
	Total nitrogen loadings removed (pounds)	604			
	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			
	Public Works Yard	1	COV Municipal Maintenance Yard Inspection Checklist	COV Eng.	See III.A.5 for documentation
	Sanitation Storage Yard	1			
	Part III.A.3 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.			
Strengths: Strong City services and large community of volunteers. Full-time street sweeper on staff.					
Limitations: None.					
SWMP revisions implemented to address limitations: None.					

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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. Provide a list of the projects where stormwater treatment was not included with an explanation for each of why it was not.				
	Report on any stormwater retrofit planning activities and the associated implementation of retrofitting projects to reduce stormwater pollutant loads from existing drainage systems that do not have treatment BMPs.				
	Flood control projects completed during the reporting period	0			
	Flood control projects completed that did <u>not</u> include stormwater treatment	N/A			
	Stormwater retrofit projects planned/under construction	1	Park Blvd/Granada Ave intersection reconfiguration and rain garden	ZNS Engineering	Project delayed due to being combined with the adjacent sidewalk project
	Stormwater retrofit projects completed	0			
	If there were projects that did not include stormwater treatment, provide as an attachment a list of the projects and an explanation for each of why it did not.	N/A			
Part III.A.4 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: The City is capable of constructing small projects in-house. Stormwater Master Plan update completed by Kimley-Horn in 2025. Projects added to CIP in 2025 for FY26 and beyond.				
	Limitations: Limited project planning in 2024. Rain garden project delayed.				
	SWMP revisions implemented to address limitations: None.				

City of Venice NPDES Report - 2024

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 TSD facilities and the number of the inspections conducted for each facility.				
	Name of Facility	Number of Inspections			
	Public Works Yard	1	COV Municipal Maintenance Yard Checklist	COV Eng.	
	Sanitation Storage Yard	1			
Part III.A.5 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: The only waste facilities in the City are owned by the City, so any issues would be seen by City employees.				
	Limitations: None.				
	SWMP revisions implemented to address limitations: None.				

City of Venice NPDES Report - 2024

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.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.				
	PERSONNEL: FDACS public applicators of pesticides/herbicides	2	FDACS Limited Lawn and Ornamental License	COV PW: Parks	David Marra, Warren Petitt
	CONTRACTORS: FDACS commercial applicators of pesticides/ herbicides	26	FDACS Commercial Applicator License	Contractors	SOLitude Lake Management, Rick Richards Inc, Lake Doctors, EarthBalance, Aquagenix
	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: Green Industry BMP Program training completed	2	Green Industry BMP certification	COV PW: Parks	Warren Petitt, David Marra
	CONTRACTORS: FDACS certified / licensed applicators of fertilizer	0			
	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, or because the permittee adopted its own fertilizer use ordinance before January 1, 2009, indicate that in Column F.				
	Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance				
	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).				
	Brochures/Flyers/Fact sheets distributed	12,230	Email from Utility Billing Coordinator	Southwest Direct Inc, Infosend	NPDES Brochure: Understanding Stormwater and the Environment
	Neighborhood presentations: Number conducted	0			
	Neighborhood presentations: Number of participants	0			
	Newspapers & newsletters: Number of articles/notices published	11	City E-news	COV PIO	
	Newsletters: Number of newsletters distributed	4,400	Email from COV PIO		
	Public displays (e.g., kiosks, storyboards, posters, etc.)	0			
	Radio or television Public Service Announcements (PSAs)	0			
	School presentations: Number conducted	0			
	School presentations: Number of participants	0			
	Seminars/Workshops: Number conducted	0			
	Seminars/Workshops: Number of participants	0			

City of Venice NPDES Report - 2024

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
	Special events: Number conducted	0			
	Special events: Number of participants	0			
	Number of visitors to stormwater-related pages	11,115	Website analytics	COV Eng., COV IT	
Part III.A.6 Summary	Provide an evaluation of the Stormwater Management Program according to Part VI.B.2 of the permit.				
	Strengths: City employees have received proper certification and licensure by FDACS. The City has adopted a Fertilizer Ordinance which employs more restrictive measures than are otherwise required by the "Florida Green Industries Best Management Practices for Protection of Water Resources in Florida, June 2002." The City was able to reach a majority of the resident population through public outreach efforts.				
	Limitations: Our relatively small staff size and budget limited some public outreach efforts such as after hour events and media advertising.				
	SWMP revisions implemented to address limitations: None.				

City of Venice NPDES Report - 2024

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/SW MP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
Part III.A.7.a	Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures				
	Report amendments to legal authority in Year 4.				
	Year 4 ONLY: Attach a report on amendments to applicable legal authority	N/A			
Part III.A.7.b	Part III.A.7.b: No section on the report				
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 (Minimum 10/year with approved inspection form)	10	Stormwater Inspection Forms	COV Eng.	
	Proactive Inspections performed by county	0			
	Illicit discharges found during a proactive inspection	2	Stormwater Inspection Forms	COV Eng.	Code Enforcement involved in two of the cases, FDOT notified of the other
	NOV/WL/citation/fines issued for illicit discharges found during proactive inspection	0	Stormwater Inspection Forms	COV Eng. / Code 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	14	Stormwater Inspection Forms, emails, SeeClickFix	COV Eng., Code Enforcement	
	Reactive investigations of reports of suspected illicit discharges etc.	13			Case that was not investigated was sent to Sarasota County for investigation (County-maintained drainage ROW)
	Illicit discharges etc. found during reactive investigation	13			
	NOV/WL/citation/fines issued for illicit discharges etc. found during reactive investigation	13			
	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	8	Sarasota County Illicit Discharge Training	COV Eng., PW	
	Contractors trained	12	Pre-Con Meeting Notes	COV Eng.	Contractor training held at every pre-con meeting
	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	44	2024 Annual Report	COV Fire Department	

City of Venice NPDES Report - 2024

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A.	B.	C.	D.	E.	F.
Permit Citation/SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Report 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	63	VFR Training 2024	COV Fire Department	626 total hours
	Contractors trained	0			
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 website visits (if applicable).				
	Brochures/Flyers/Fact sheets distributed	12,230	Email from Utility Billing Coordinator	Southwest Direct Inc, Infosend	NPDES Brochure: Understanding Stormwater and the Environment
	Neighborhood presentations: Number conducted	0			
	Neighborhood presentations: Number of participants	0			
	Newspapers & newsletters: Number of articles/notices published	12	City E-news	COV PIO	
	Newsletters: Number of newsletters distributed	4,400	Email from COV PIO		
	Public displays (e.g., kiosks, storyboards, posters, etc.)	0			
	Radio or television Public Service Announcements (PSAs)	0			
	School presentations: Number conducted	0			
	School presentations: Number of participants	0			
	Seminars/Workshops: Number conducted	0			
	Seminars/Workshops: Number of participants	0			
	Special events: Number conducted	0			
	Special events: Number of participants	0			
	Number of visitors to stormwater-related pages	11,115	Website analytics	COV Eng., COV IT	
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).				
	Brochures/Flyers/Fact sheets distributed	12,230	Email from Utility Billing Coordinator	Southwest Direct Inc, Infosend	NPDES Brochure: Understanding Stormwater and the Environment
	Household Hazardous Waste (HHW) Collection Day: Events	4	Email from Sarasota County Hazardous Waste Supervisor	Sarasota County	4 annual events and curbside pickups
	HHW Collection Day: Amount of waste collected/recycled/disposed (tons)	12.4			

City of Venice NPDES Report - 2024

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
	Neighborhood presentations: Number conducted	0			
	Neighborhood presentations: Number of participants	0			
	Newspapers & newsletters: Number of articles/notices published	11	City E-news	COV PIO	
	Newsletters: Number of newsletters distributed	4,400	Email from COV PIO		
	Public displays (e.g., kiosks, storyboards, posters, etc.)	0			
	Radio or television Public Service Announcements (PSAs)	0			
	School presentations: Number conducted	0			
	School presentations: Number of participants	0			
	Seminars/Workshops: Number conducted	0			
	Seminars/Workshops: Number of participants	0			
	Special events: Number conducted	0			
	Special events: Number of participants	0			
	Storm sewer inlets newly marked/replaced	110	Email from CRS Coordinator	COV Eng., volunteers	
	Number of visitors to stormwater-related pages	11,115	Website analytics	COV Eng., COV IT	
Part III.A.7.g	Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage				
	Report on the type and number of activities undertaken to reduce or eliminate SSOs and inflow/ infiltration, the number of SSOs or inflow / infiltration incidents found and the number resolved, and the name of the owner of the sanitary sewer system within the permittee's jurisdiction. Report only the SSOs and inflow / infiltration incidents into the MS4. DEP Note: If the permittee does not own the sanitary sewer system, delete "activity to reduce/eliminate SSOs and I&I."				
	Owner of the sanitary sewer system	COV - Utilities Department			
	Activity to reduce/eliminate SSOs and I&I: (description)	12 miles of pipe inspected, 4,470 LF of pipe lined, 4 sewer line breaks repaired, and 3 generators added	Email from COV Utilities	COV Utilities	
	SSO incidents discovered	14			
	SSO incidents resolved	14			
	Inflow / infiltration incidents discovered	70			
	Inflow / infiltration incidents resolved	70			
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: Illicit discharge training includes Engineering and Public Works departments. All illicit discharge issues resolved. Utilities resolved all SSO and I&I issues.				
Part III.A.7 Summary	Limitations: Our relatively small staff size and budget limited some public outreach efforts such as after hour events and media advertising. SWMP Revisions implemented to address limitations: None.				

City of Venice NPDES Report - 2024

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.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.						
	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				
	Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities	0	N/A				
	EPCRA Title III, Section 313 facilities (TRI)	1	2	0	Stormwater Inspection Form	COV Eng.	Titan Concrete
	Facilities determined as high-risk by the permittee	2	2	0			Ajax Asphalt, Preferred Materials
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					
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.2 of the permit.						
	Strengths: No reported or found illicit discharges from these sites.						
	Limitations: None.						
	SWMP revisions implemented to address limitations: None.						

City of Venice NPDES Report - 2024

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.a	Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices				
	Report the number of permittee and private pre-construction site plans reviewed for stormwater, erosion, and sedimentation controls, and the number approved.				
	PERMITTEE SITES: Construction site plans reviewed	0	Construction Plan Approval letters	COV Eng.	See III. A.2 for additional documentation
	PERMITTEE SITES: Construction site plans approved	0			
	PRIVATE SITES: Construction site plans reviewed	15			
	PRIVATE SITES: Construction site plans approved	15			
	Report the number of development permit applicants notified of the ERP and CGP, and the number of applicants who confirmed ERP and CGP coverage.				
	Notified of ERP stormwater permit requirements	12	Pre-Con Meeting Notes	COV Eng.	
	Confirmed ERP coverage	12			
	Notified of CGP stormwater permit requirements	12			
	Confirmed CGP coverage	12			
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	2	Inspection Reports	COV Eng.	
	PERMITTEE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	96			
	PERMITTEE SITES: Percentage of active construction sites inspected	100%			
	PRIVATE SITES: Active construction sites	40			
	PRIVATE SITES: Pre-, During, and Post inspections of active construction sites for E&S and waste control BMPs	1157			
	PRIVATE SITES: Percentage of active construction sites inspected	100%			
	Enforcement Action	0			No stop work orders or fines issued

City of Venice NPDES Report - 2024

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.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	2	2	FDEP Sediment & Erosion Control Inspectors Certification, Sarasota County Illicit Discharge Training	COV Eng.	
	Permittee construction site plan reviewers	4	4			
	Permittee construction site operators	0	0			
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.2 of the permit.					
	Strengths: The Engineering Department is sufficiently staffed to inspect all sites. No notices of violation were issued.					
	Limitations: None.					
	SWMP revisions implemented to address limitations: None.					

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
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

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	Monitoring Summary / BPCP Due Date	Supplemental SWMP Due Date
	N/A			<input type="checkbox"/> / <input type="checkbox"/>		1	(Year 3 AR)	(Year 4 AR; N/A) if BPCP)
				<input type="checkbox"/> / <input type="checkbox"/>				
B.	<p>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.</p> <p>Year 3: Submit a Monitoring data summary or BPCP (if applicable).</p> <p>Year 4: Submit a Supplemental SWMP (if applicable).</p> <p><i>Note: Previously prioritized waterbodies with approved TMDL Implementation Plans may be reported in this section.</i></p>							
	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)				
C.	<p>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):</p> <p>N/A</p>							

Section III. A

Monitoring Plan Implementation

The City of Venice participates in the *Sarasota County NPDES MS4 Assessment Program (December 2019)* which was approved by the Florida Department of Environmental Protection on January 24, 2020. Sarasota County implements the countywide monitoring plan, which includes monitoring sites within the City of Venice.

The monitoring reports, detailed analysis, and site locations are located on the Sarasota County Water Atlas website accessible via the links below:

1. Ambient Water Quality of Bays.

<https://sarasota.wateratlas.usf.edu/bay-conditions/>

<https://sarasota.wateratlas.usf.edu/trends-and-hotspots/>

2. Ambient Water Quality of Watersheds

<https://sarasota.wateratlas.usf.edu/creek-conditions/>

<https://sarasota.wateratlas.usf.edu/trends-and-hotspots/>

3. Biological Monitoring – Oysters

<http://www.sarasota.wateratlas.usf.edu/oysters/>

4. Biological Monitoring – Seagrass

<http://www.sarasota.wateratlas.usf.edu/seagrass/#sarasota-seagrass>

5. Biological Monitoring – Scallops

<https://sarasota.wateratlas.usf.edu/scallops/#sarasota-scallops>

6. Rainfall

<http://www.sarasota.wateratlas.usf.edu/rainfall/>

<http://www.sarasota.wateratlas.usf.edu/datamapper/>

Relationship of Data to Stormwater Management Plan (SWMP)

The City of Venice's bay and creek monitoring sites are part of the County's overall monitoring plan. These sites help to support the Stormwater Management Program for normal operational management, maintenance needs, and for strategic planning purposes. These monitoring results provide a quantitative record of our receiving waters to watershed management activities.

During normal operation of the Stormwater Management Program, these monitoring results can be indicators of areas in need of immediate attention due to manageable issues such as illicit discharges, street sweeping routes, fertilizing practices, or active construction projects.

Stormwater from the City of Venice drains directly to portions of bay segment DR (highlighted in blue), which represents part of Dona/Roberts Bay. The individual subsegments receiving stormwater directly from the City of Venice are DR-3, DR-4, and DR-5 (Figure 1).

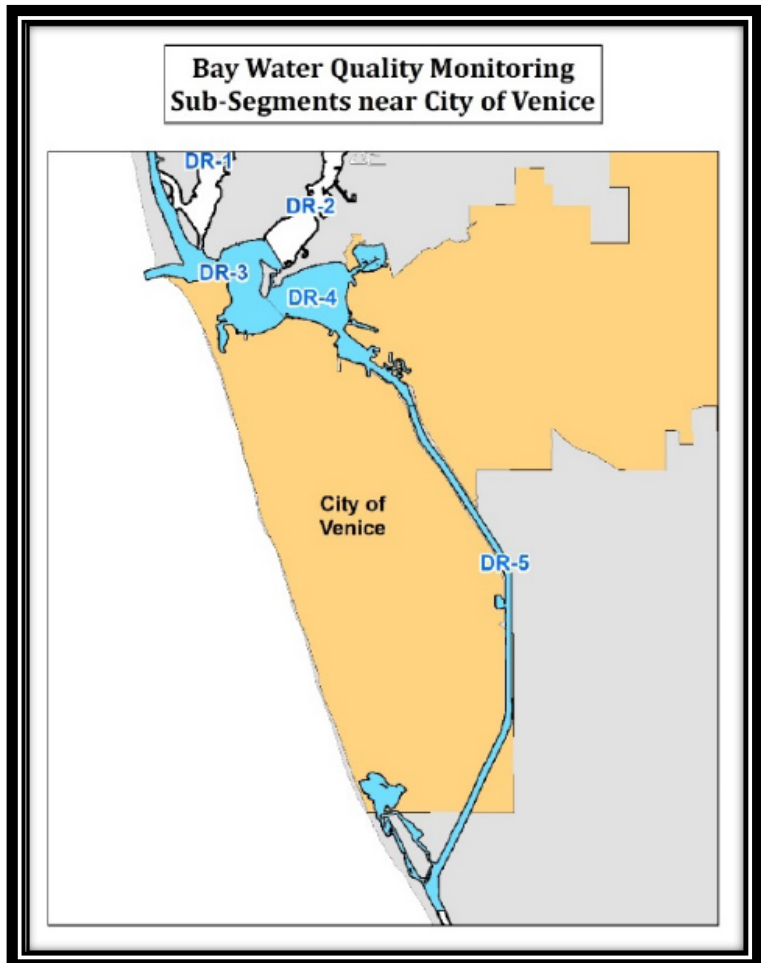


Figure 1. City of Venice Bay Segments

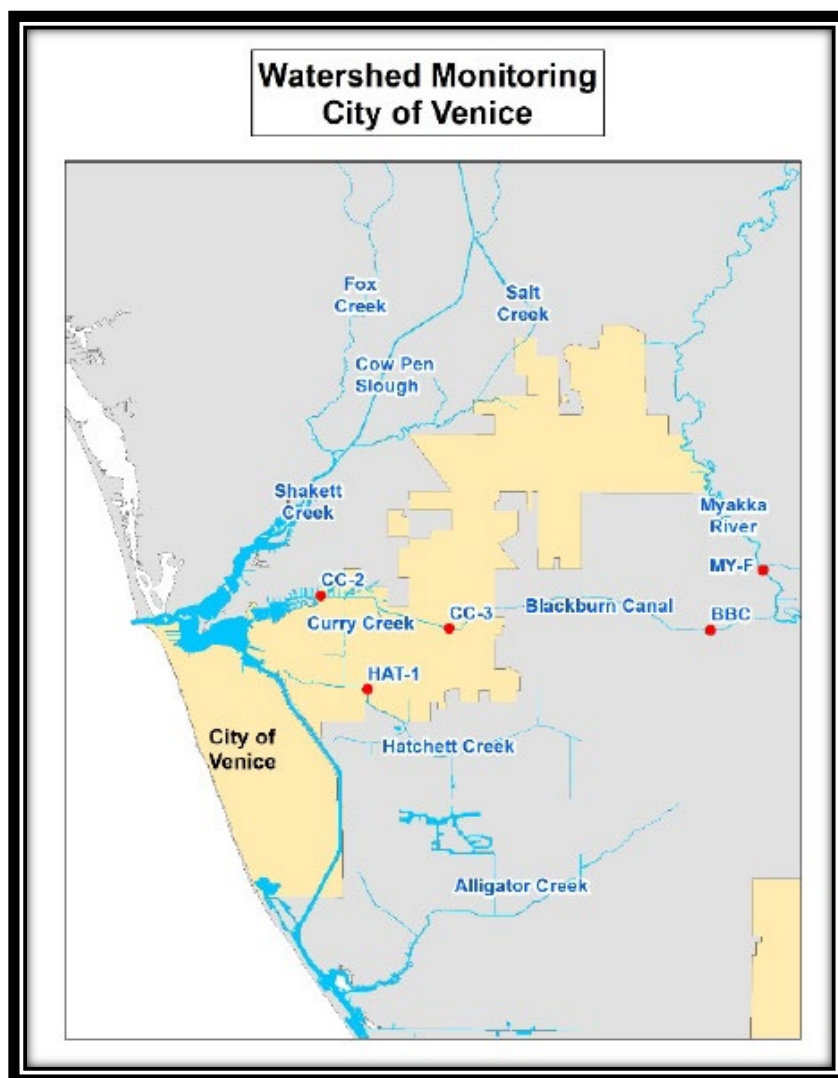


Figure 2. City of Venice Watershed Monitoring Sites

Stormwater from the City of Venice drains to Hatchett Creek, Curry Creek, and Myakka River basins. Monitoring sites within the City of Venice drainage area are depicted in Figure 2.

It should be noted that not every sampling point in the Myakka River basin falls within the City of Venice boundaries. For the purposes of this report, results for relevant sites within the Myakka River basin (MY-F, shown in Figure 2) will be evaluated.

Section III. B

Assessment Program Results

1. **Ambient Water Quality of Bays:** In 2024, Dona/Roberts Bay received a **Caution** rating. This is a decline from 2023 when Dona/Roberts Bay received a **Pass** rating. Water quality trends for total phosphorus remained consistent with last year's results, while nitrogen and chlorophyll-a values increased throughout Dona/Roberts Bay.
2. **Ambient Water Quality of Watersheds:** Stormwater from the City of Venice drains to Hatchett Creek, Curry Creek, and the Myakka River basins. Monitoring within the Cow Pen Slough basin is also included in this report as it is informative to water quality analysis in the bays adjacent to the City of Venice. In 2024, Cow Pen Slough showed a decline in dissolved oxygen saturation, bringing its overall classification from **Pass** to **Caution**. Dissolved oxygen levels within Curry Creek declined in 2022 and again in 2024. Hatchett Creek received a **Pass** rating which is consistent with previous years. For the creek water quality 10-year trends, improving values were observed with total nitrogen levels decreasing for monitoring sites within Curry Creek, Hatchett Creek, Blackburn Canal and the Myakka River. Improved phosphorus values were also observed with a decreasing trend for monitoring sites within Blackburn Canal, Curry Creek, and the Myakka River.
3. **Biological Monitoring – Oysters:** The results of Oyster monitoring conducted in Sarasota County in 2024 showed the percent of live oysters decreased at most monitoring sites. The Roberts Bay (RB1) site went from an **Excellent** rating in 2023 to a **Caution** rating in 2024. The upstream Curry Creek site (CC2) improved from a **Caution** to a **Good** rating, while the downstream site (CC1) declined from an **Excellent** to a **Good** rating. The downstream Alligator Creek site (AL1) remained consistent with a **Good** rating, while the upstream site (AL2) declined from an **Excellent** to a **Good** rating.
4. **Biological Monitoring – Seagrass:** In 2024, results of the 5-year seagrass monitoring trend report (2019-2024) showed a positive trend in seagrass health in Dona Roberts Bay. This positive trend includes the decrease of undesirable conditions including drift algae and epiphytic coverage. However, a negative trend was observed for seagrass density. Seagrass mapping by SWFWMD from 2024 showed a 112-acre increase occurred in Dona Roberts Bay since 2022. Dona Roberts Bay remains below target for seagrass acreage.

5. **Biological Monitoring – Scallops:** In 2024, spat landings significantly decreased countywide from 2023, with the totals comparable to 2022 numbers. Dona Roberts Bay was the most productive relative to the other bays with 33 spat landings observed. Red tide was present in late 2024 between September and December, likely influenced by Sarasota County's active hurricane season with three consecutive named storms. Detections were few to nonexistent for the remainder of the year.
6. **Rainfall Monitoring:** In 2024, approximately 63 inches of rain fell throughout Sarasota County, up from approximately 36 inches in 2023 and surpassing the annual average rainfall of 52.2 inches.

Section III. C

Monitoring and Data Summary

Summary of Results and Long-term Assessment

The [Bay Conditions Index](#), shown in Figure 3, provides a rapid visual assessment of the water quality in each bay for the selected year. These ratings are assigned based upon the performance of the prioritized indicators: chlorophyll-*a*, total nitrogen, and total phosphorus. Each bay receives either a **Pass** or **Caution** rating based on the state's Numeric Nutrient Criteria. A bay only receives a **Pass** rating when all three indicators meet the predefined conditions of meeting regulatory thresholds.

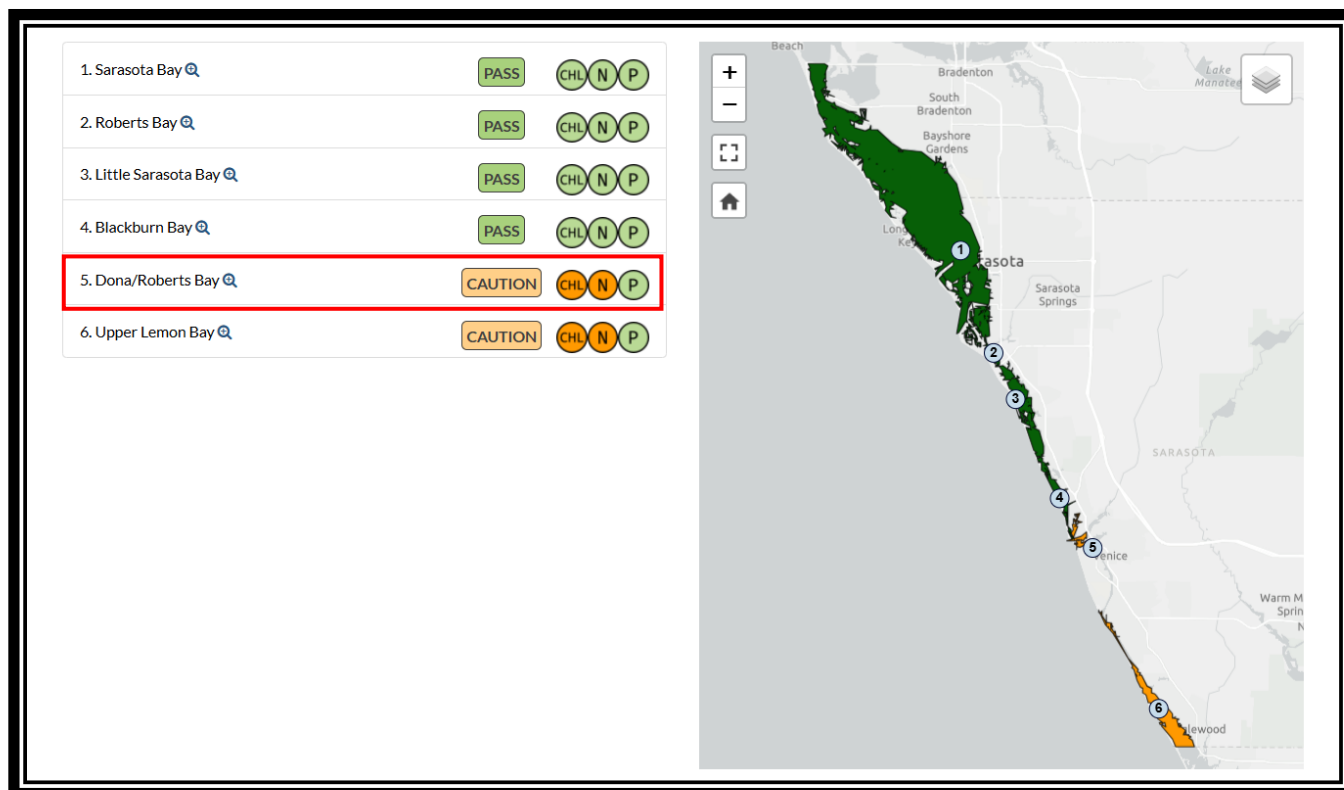


Figure 3. 2024 Bay Conditions Index Score

In 2024, Dona/Roberts Bay received a **Caution** rating due to increased chlorophyll-*a*, and nitrogen levels. This is a decline from the results for 2022-2023, in which Dona/Roberts Bay received a **Pass** rating.

[Bay Condition Reports](#) are displayed on the Sarasota County Water Atlas in addition to Bay Condition Index Scores. The legend displayed in Figure 4 below details the symbology utilized in the report. For the prioritized indicators, a score of **Excellent** denotes concentrations that meet or exceed the target concentration and a score of **Good** denotes regulatory thresholds are met. The bay conditions index is rated as either **Pass** or **Caution** based on the method as referenced on the previous page of this report.

Bay Condition Report													
Dona/Roberts Bay													
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Legend
Bay Conditions Index	⚠	⚠	⚠	⚠	⚠	⚠	⚠	⚠	⚠	✅	✅	⚠	🏆 Excellent
Chlorophyll a	⚠	⚠	⚠	⚠	⚠	⚠	⚠	👍	👍	🏆	🏆	⚠	👍 Good
Nitrogen, Total	⚠	⚠	⚠	⚠	⚠	⚠	⚠	⚠	⚠	🏆	🏆	⚠	✅ Pass
Phosphorus, Total	🏆	🏆	🏆	🏆	🏆	🏆	🏆	🏆	🏆	🏆	🏆	🏆	⚠ Caution

Figure 4. 2024 Bay Condition Report for the City of Venice

In 2024, Dona/Roberts Bay received a **Caution** rating for chlorophyll-a and total nitrogen, down from an **Excellent** rating for both parameters in 2023. Total phosphorus levels maintained an **Excellent** rating in 2024.

[Water quality trends](#) are displayed on the Sarasota County Water Atlas in addition to bay condition indices to provide a more complete evaluation of bay health. An upward or downward trend in isolation can be misleading as a bay can trend in either direction while still meeting regulatory thresholds. The legend displayed in Figure 5 details the symbology utilized in the Water Quality Trends Report below.

Water Quality Trends Report Key	
↑	Increasing Trend, Larger Rate
↑	Increasing Trend, Smaller Rate
●	No Trend
↓	Decreasing Trend, Smaller Rate
↓	Decreasing Trend, Larger Rate
×	Trend Analysis Not Displayed
*Trend colors for DO saturation will show green arrows for increases and red arrows for decreases.	
*Report displays data as analyzed on the Sarasota County Wateratlas.	

Figure 5. Water Quality Trend Report Key

Bay Water Quality Trends Report				
	Total Nitrogen	Dissolved Oxygen	Total Phosphorus	Chlorophyll-a
Dona Bay				
DR-3	↓	●	↓	↓
DR-4	↓	↑	↓	↓
DR-5	↓	●	↓	↓

Figure 6. Bay water quality ten-year trend report (2015-2024) for the City of Venice

In 2024, positive water quality trends were observed for total nitrogen, total phosphorus and chlorophyll-a for the ten-year trend throughout Dona/Roberts Bay.

Stormwater from the City of Venice drains to Hatchett Creek, Curry Creek, and the Myakka River basins, and monitoring within the Cow Pen Slough basin is informative to water quality analysis in the bays adjacent to the City of Venice. The creek conditions index for these basins are outlined in Figure 7 with the exception of the Myakka River watershed. The Myakka is a blackwater, wetland influenced waterbody that is inherently different from coastal creeks and should not be scored the same way.

The ratings displayed below are assigned based upon the performance of the prioritized indicators: chlorophyll-a, nitrogen, phosphorus, and dissolved oxygen saturation. The rating system used represents a simplified version of methods used to assess stream health. Each creek receives either a **Pass** or **Caution** rating, depending on whether the water quality in its tidal stream components meet predefined conditions based on the state's numeric nutrient criteria.

Creek Condition Report												
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Cow Pen Slough												
Chlorophyll a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dissolved Oxygen Saturation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	⚠
Nitrogen, Total	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Phosphorus, Total	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tidal Creek Conditions Index	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	⚠
Curry Creek												
Chlorophyll a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dissolved Oxygen Saturation	✓	✓	✓	✓	✓	✓	✓	✓	✓	⚠	✓	⚠
Nitrogen, Total	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Phosphorus, Total	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tidal Creek Conditions Index	✓	✓	✓	✓	✓	✓	✓	✓	✓	⚠	✓	⚠
Hatchett Creek												
Chlorophyll a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dissolved Oxygen Saturation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nitrogen, Total	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Phosphorus, Total	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tidal Creek Conditions Index	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Figure 7. 2024 Creek Condition Report for the City of Venice

Curry Creek and Cow Pen Slough showed a decline in dissolved oxygen in 2024. Both received a **Caution** rating, down from **Pass** ratings in 2023. Results for Hatchett Creek were consistent with previous years.

Creek Water Quality Trends Report				
	Total Nitrogen	Dissolved Oxygen	Total Phosphorus	Chlorophyll a
Blackburn Canal				
BBC	↓	●	↓	●
Curry Creek				
CC-2	●	●	↓	↓
CC-3	↓	●	↓	●
Hatchett Creek				
HAT-1	↓	●	●	↓
Cow Pen Slough				
CPS-1	●	↓	●	●
CPS-2	●	↓	↓	↓
CPS-3	●	●	●	●
CPS-4	●	●	●	●
CPS-AB	●	●	●	●
CPS-BERM	●	●	●	●
Myakka River				
MY-F	↓	●	↓	●

Figure 8. Creek water quality trend report (2015-2024) for the City of Venice

The creek water quality 10-year trends for the City of Venice are shown in Figure 8. Improving values were observed with total nitrogen decreasing throughout the monitoring area for the City of Venice, as well as chlorophyll-a levels within Curry Creek and Hatchett Creek. A decreasing trend was also observed in phosphorus levels for monitoring sites within Blackburn Canal, Curry Creek, and the Myakka River.

Relationship of Data to Stormwater Management Plan

For strategic planning purposes, these monitoring trends are incorporated into the capital improvement planning process for future County Stormwater projects. These trends are useful in identifying the specific needs of a particular waterbody. The analysis of ambient water quality data provides insight into the complex relationships between the water quality of creeks, basins, bays, and monitored stormwater projects. Water quality data is valuable when estimating the effects of rainfall, understanding the movement and concentration of pollutants, and prioritizing waterbodies to manage for pollutant reduction.

The Sarasota Water Atlas includes additional analysis, resources for public education, and tools for public involvement. The Water Atlas supports tools and content that allow for a better understanding of local waterbodies and the role that stormwater plays in the health of local bays and creeks. The County is actively working towards modifying dashboards on the Sarasota County Water Atlas. An update in 2021 resulted in the inclusion of hotspot analysis and a percentile ranking of similar waterbodies. This analysis allows for better understanding of stormwater pollution and enhanced evaluation of best management practices that can be implemented to reduce pollutants.