City of Marco Island

Meeting Date: June 1, 2026
To: City Council
From: Jeffrey E. Poteet, General Manager- Water & Sewer
Through: Casey Lucius, City Manager
Re: Water and Sewer (W&S) Departmental Report

Both the City's drinking water and wastewater operations follow Florida Department of Environmental Protection (FDEP) regulations and all other regulatory entity requirements. The W&S Department is operating within the approved budget. Below is a summary of department activities during the past month.

The 2025 CCR Water Quality Report for the City of Marco Island
The City of Marco Island 2025 Water Quality Report for the Marco Island Service area is now posted on the City of Marco Island website. View the report at https://www.cityofmarcoisland.com/ccr2025/

Update - Advance Metering Instructure (AMI)
Once the new meter is installed, residents will be able to track their water usage through the City website www.cityofmarcoisland.com and click "Make a Payment" to access the Portal. For assistance, please contact Customer Service at (239) 394-3880 Ext: 1

Map of Marco Island illustrating the phased installation of new water meters. The map identifies areas where water meters have already been installed, the current installation zone, and areas scheduled for future installation. Different colors or markings distinguish completed, active, and upcoming work areas across the island.The AMI project continues to progress as planned, with the contractor having completed roughly 70% of the work. So far, about 7,274 residential and commercial meters have been replaced across the island, and the contractor is currently concentrating efforts in the central region north of San Marco Road.

As each new meter is activated, customers gain access to their water usage data through the customer portal. This smart feature is now available to Marco Island customers with newly installed AMI meters, and many have already used the system to identify irrigation issues and leaks.

The portal allows users to monitor their water consumption on a monthly or hourly basis and offers customizable alerts for leak detection, high daily usage, high-usage billing, and vacation mode. For any questions, please reach out to customer service.

The project remains on schedule.

SWTP Generator Storage Building

The City's Water and Sewer Department continues to make strong progress on the SWTP Generator Storage Building project at the South Water Treatment Plant. The project includes construction of a 120-by-120-foot open-storage facility designed to protect portable generators that are critical for maintaining lift station and well operations during power outages.

The project also incorporates Environmental Resource Permit (ERP) requirements, including swale improvements, and is supported by a $600,000 grant that will help offset construction costs. Project design has been completed, and the project was officially advertised for bid on April 19, with bid submissions due June 2, 2026.

In May, the City hosted a well-attended pre-bid meeting, providing contractors an opportunity to review plans, ask questions, and discuss project requirements. Construction is anticipated to begin later this summer.

Ribbon Cutting Ceremony - SWTP High Service Pump Station

On May 21, 2026, the Water and Sewer Department hosted a ribbon cutting ceremony for the newly completed West High Service Pump Station (HSPS) at the South Water Treatment Plant (SWTP) located at 415 Lily Court. Approximately 30 people attended the event, including three City Council members, State Representative Yvette Benarroch, representatives from the Florida Department of Environmental Protection (FDEP), several City department directors, and the City Manager. Scott Kerens from the Presbyterian Church provided the facility blessing and opening prayer.

This critical infrastructure project was completed on time and within the $4.7 million project budget, with support from a $900,000 FDEP Resilient Florida Grant. An FDEP representative attended the event in recognition of the State's partnership and investment in the project.

The new West HSPS replaced a 50-year-old pump station that was prone to leaks, lacked sufficient capacity during peak demand periods, did not meet current hurricane design standards, and was vulnerable to flooding. The project, bid in March 2023, included demolition of the existing facility and construction of a modern, resilient replacement pump station.

During the startup and commissioning phase, an issue with the new pumps was identified and is currently being evaluated by the engineer and equipment supplier. While challenges during startup are not uncommon with new infrastructure projects, the issue has temporarily limited full operational performance. Once resolved and fully operational, the new station will significantly improve system reliability, increase pumping capacity, and enhance the City's resilience to flooding and severe weather events.

Reclaimed Water Production Facility (RWPF) Odor Control Assessment

In response to odor complaints received from residents and businesses in the surrounding community, the City initiated a comprehensive odor control assessment of the Reclaimed Water Production Facility (RWPF) to identify the sources of odors and evaluate the effectiveness of the

facility's existing odor control infrastructure. Addressing these concerns remains a priority for the Water and Sewer (WS) Department as part of its commitment to maintaining the quality of life for nearby neighborhoods and ensuring the RWPF operates in an environmentally responsible manner.

The RWPF currently utilizes three separate odor control systems designed to minimize and manage odors generated during the treatment process. In January, the WS Department retained a specialized engineering consultant to perform a detailed assessment of the facility's odor control systems. The objectives of the study were to pinpoint primary odor sources, evaluate the condition and operational effectiveness of the existing equipment, identify immediate operational improvements, and develop recommendations for long-term odor mitigation strategies.

Following site inspections, system evaluations, and operational testing, the consultant determined that two of the three odor control systems are generally functioning within acceptable performance parameters. However, the third system — the BioAir odor control unit — was found to be underperforming and not adequately removing odor compounds under certain operating conditions.

The consultant recommended several near-term corrective measures, including repairs, preventative maintenance activities, and comprehensive testing and balancing of all three odor control systems to optimize performance and improve odor reduction efficiency. WS staff are currently coordinating and scheduling the recommended maintenance and operational improvements.

To achieve a more substantial and long-term improvement to the BioAir system, the consultant further recommended the addition of a chemical scrubbing unit designed to absorb and neutralize excess odor compounds before discharge. In response, WS staff has requested a proposal for the design and permitting of an odor control system improvement project. The estimated cost for engineering design and permitting services is approximately $142,500, with anticipated construction costs estimated at approximately $950,000.

The proposed BioAir system improvements and associated odor control upgrades will be presented as part of the Water and Sewer Department's Fiscal Year 2027 Capital Improvement Program (CIP) request during the June 15 CIP Workshop. These improvements are intended to provide a long-term solution to community odor concerns while enhancing the overall reliability and effectiveness of the RWPF odor control systems.

Water Service Interruptions with Boil Water Notice (BWN)			
Month	Number of Service Calls Resulting in a BWN	Number of Customers	Large Interuptions 50 Customer or More
May-25	3	32	Town Center-7 Units
June-25	3	37	
July-25	3	367	Smokehouse Bay-349
Aug-25	3	291	Smokehouse Bay, Sandollar, Westview
Sept-25	6	236	Court Yard Towers-12
Oct-25	7	216	
Nov-25	2	84	667 Thrush Ct.
Dec-25	4	760	Cape Marco 733
Jan-26	7	556	132 Gulfstream,280 S. Collier, 600 S. Collier
Feb-26	2	256	52 Habitat, 204 Tradewinds
March-26	6	627	TradeWinds-204,MarcoVillas-80,Eagles Nest-96(Twice),719 Barfield-119
April-26	8	681	Plantation 79, Stevens Landing 72, 890 S. Collier 96, 999 Anglers Cove 320

CITY OF MARCO ISLAND

WATER & SEWER FLASH REPORT

UNAUDITED- WITHOUT ENCUMBRANCES

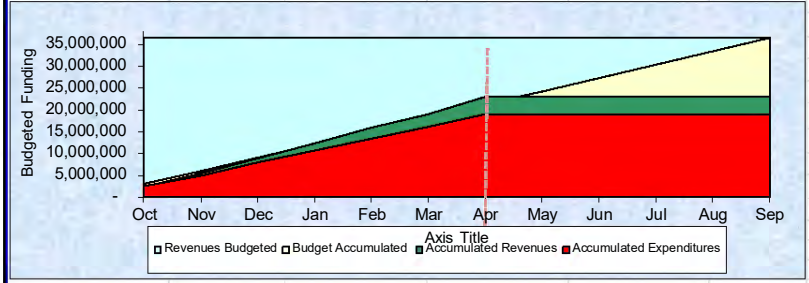
Last Month of the Reporting Period:	April-26
Percentage of Year Completed:	58.3%

WATER & SEWER FUNDS

Utility Fund	REVISED BUDGET	BUDGET YTD	Actual YTD	ACTUAL OVER/UNDER YTD BUDGET	Percent Spent YTD
Revenues - Operations	36,453,300	21,264,425	**22,962,430**	1,698,005	63%
Expenditures					
Operations	36,694,932	21,264,425	**20,217,805**	(1,046,620)	55%

WATER & SEWERS EXPENSES

Departments	REVISED BUDGET	Total Spending Difference	Percent Spending	Actual YTD	Budgeted Overtime	Overtime YTD	Percent Overtime Spent
NWTP	3,980,724	1,837,079	53.9%	2,143,644	60,000	32,730	55%
SWTP	3,075,673	1,339,187	56.5%	1,736,486	40,000	16,290.22	41%
RWPF	3,610,887	2,109,635	41.6%	1,501,252	45,000	20,731	46%
C&D	2,952,960	1,209,826	59.0%	1,743,134	70,000	50,292	72%
Maintenance	1,974,549	937,129	52.5%	1,037,420	95,000	71,770	76%
Administration	17,801,973	7,621,899	57.2%	10,180,073	3,000	1,163	39%
Customer Service	1,098,166	505,705	54.0%	592,461	20,000	11,747	59%
Transfers	2,200,000	916,667	58.3%	1,283,333	NA	NA	NA.
	36,694,932	16,477,127	55.1%	20,217,805	333,000	204,724	61%



Treatment Plant Data

Starting Date: **3/1/2026** Rain Fall for Time Period **2.70** Inches

Ending Date: **3/31/2026**

Average **D**aily **F**low (ADF)

Million **G**allons per **D**ay (MGD)

"U" Undetected - results below detection limit

Aquifer Storage & Recovery

ASR - Injection Avg. Daily Flow	**0.00** MGD	Mar-26	
ASR - Recovery Avg. Daily Flow	**3.76** MGD		

Marco Island Drinking Water

		Max Day	Max Day Flow	
Combined Consumer ADF	**11.25** MGD	3/23/2026	**12.82**	MGD
NWTP Consumer ADF	**4.06** MGD	3/14/2026	**5.50**	MGD
SWTP Consumer ADF	**7.19** MGD	3/21/2026	**8.59**	MGD

Finished Water Testing

Minimum Chlorine Residual **3.30** mg/L

	Maximum	Minimum			Maximum	Minimum	
Turbidity	**0.02**	**0.01**	NTU	Chlorides	**142**	**128**	mg/L
Total Dissolved Solids	**304.00**	**281.00**	mg/L	Color	**16**	**1**	mg/L
P-Alkalinity	**104.00**	**4.00**	mg/L	Phosphate	**1.02**	**0.73**	mg/L
M-Alkalinity	**370.00**	**32.00**	mg/L	Ammonia	**0.9**	**0.24**	mg/L
Cal-Hardness	**116.00**	**64.00**	mg/L	Aluminum	**0.08**	**0.03**	mg/L
Total Hardness	**140.00**	**106.00**	mg/L	pH	**8.96**	**8.58**	SU

Mar-26 Wastewater - RWPF

	Average Flow		Monthly Max Day			Monthly Testing Influent	Effluent	
Influent	**2.80**	MGD	**3/14/2026**	**2.98**	BOD	**259.8**	**1.00**	**mg/L**
Reuse	**1.94**	MGD	**3/11/2026**	**2.7**	TSS	**220.5**	**1**	**mg/L**
Deep Well	**0.772**	MGD	**3/19/2026**	**1.559**	Total N	**NA**	**8.84**	**mg/L**
					Total P	**5.88**	**4.1**	**mg/L**