Key Largo Wastewater Treatment District
Board of Commissioners Meeting
Agenda Item Summary

Meeting Date:

September 2, 2025

Agenda Item Number: L-1

Action Required:

No

Department:

Plant/Facilities

Sponsor:

Ryan Dempsey

Subject:

Plant/Facilities Report - July 2025

Summary:

Mr. Dempsey will present the Plant/Facilities monthly report.

Reviewed / Approved		Financial Impact	Attachments
Operations:	_____	$	1. Monthly Report
Administration:	_____		
Finance:	_____	Funding Source:	
District Counsel:	_____	N/A	
District Clerk:	_____	Budgeted:	
Engineering:	_____	N/A	

Approved By: _____ **Date:** 08/27/2025

General Manager

Wastewater Treatment Plant Operations

The wastewater treatment plant processed an average of 2.0 million gallons of influent per day (MGD). The Treatment Plant remains in compliance with the Florida Department of Environmental Protection (FDEP) guidelines.

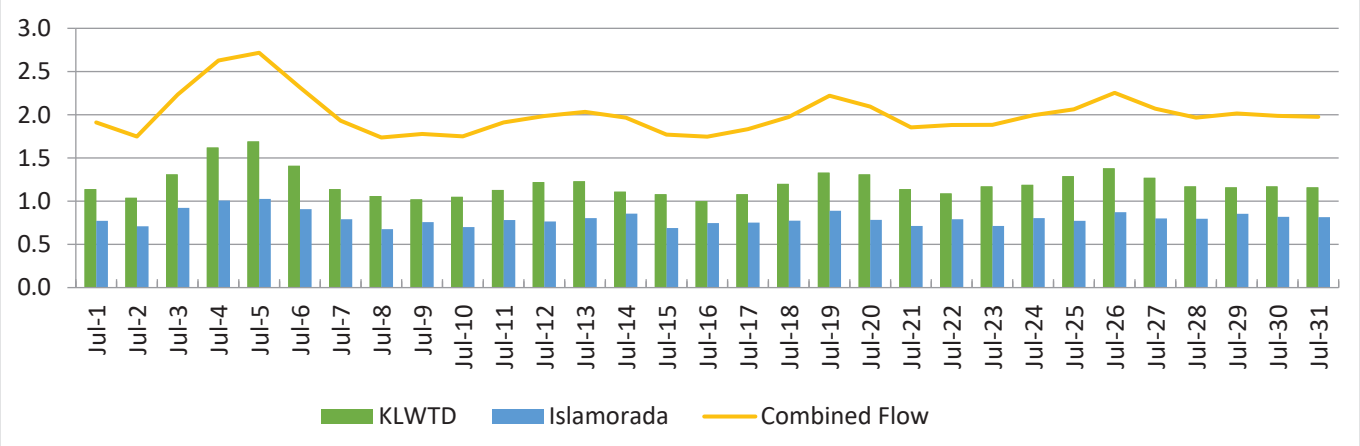
Effluent Quality Reports (mg/L)

Determines the quality of discharge from the wastewater treatment plant.

Effluent Quality Report	July 2025 Plant Performance	12 Month Average Plant Performance	Effluent Limits
CBOD5 (Carbonaceous Biochemical Oxygen Demand)	3	1.8	5
TSS (Total Suspended Solids)	1	1.2	5
TN (Total Nitrogen)	2.8	2.8	Report only
TP (Total Phosphorous)	.8	.7	Report only

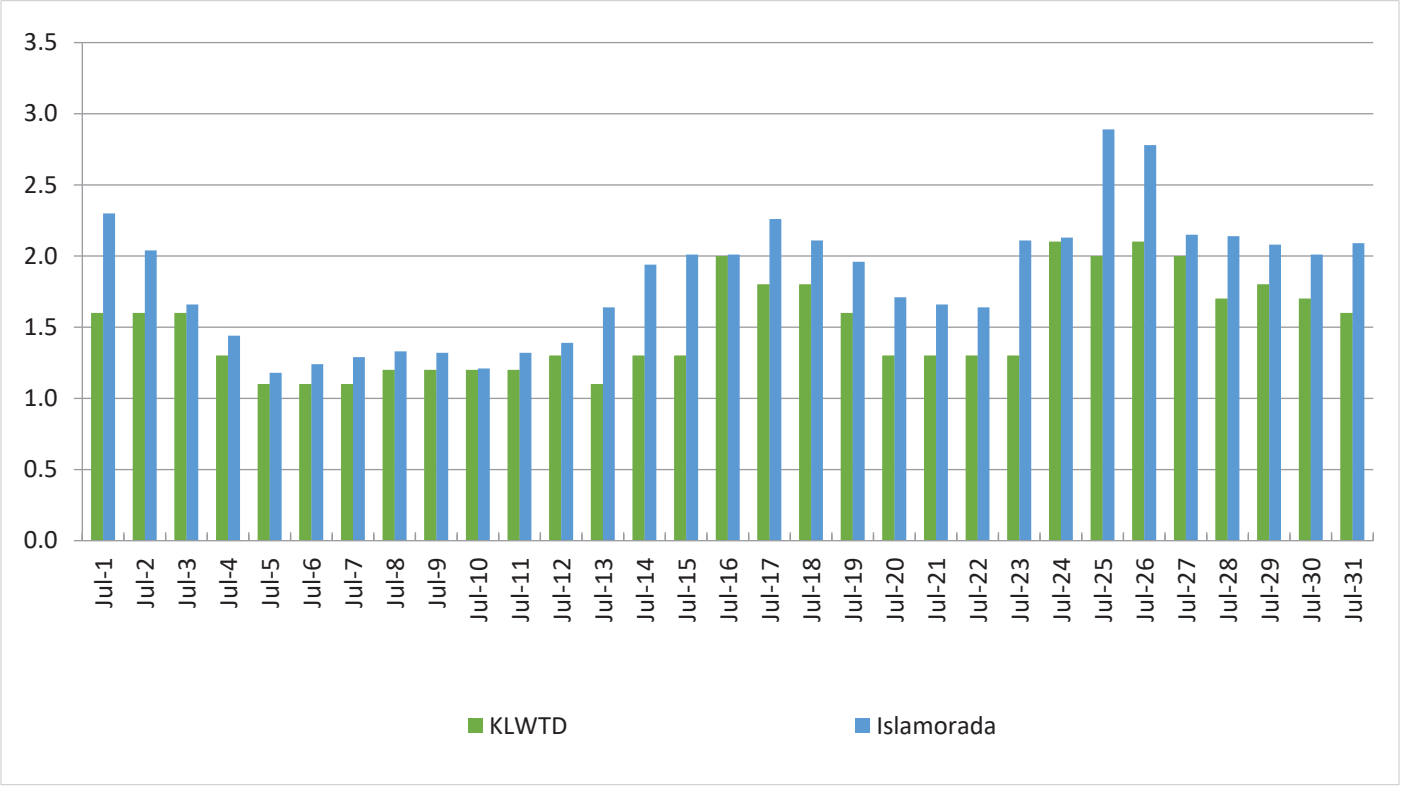
Daily Flow (MGD)

The total flow of influent through the wastewater treatment plant each day.



Daily Peak Salinity (PPT)

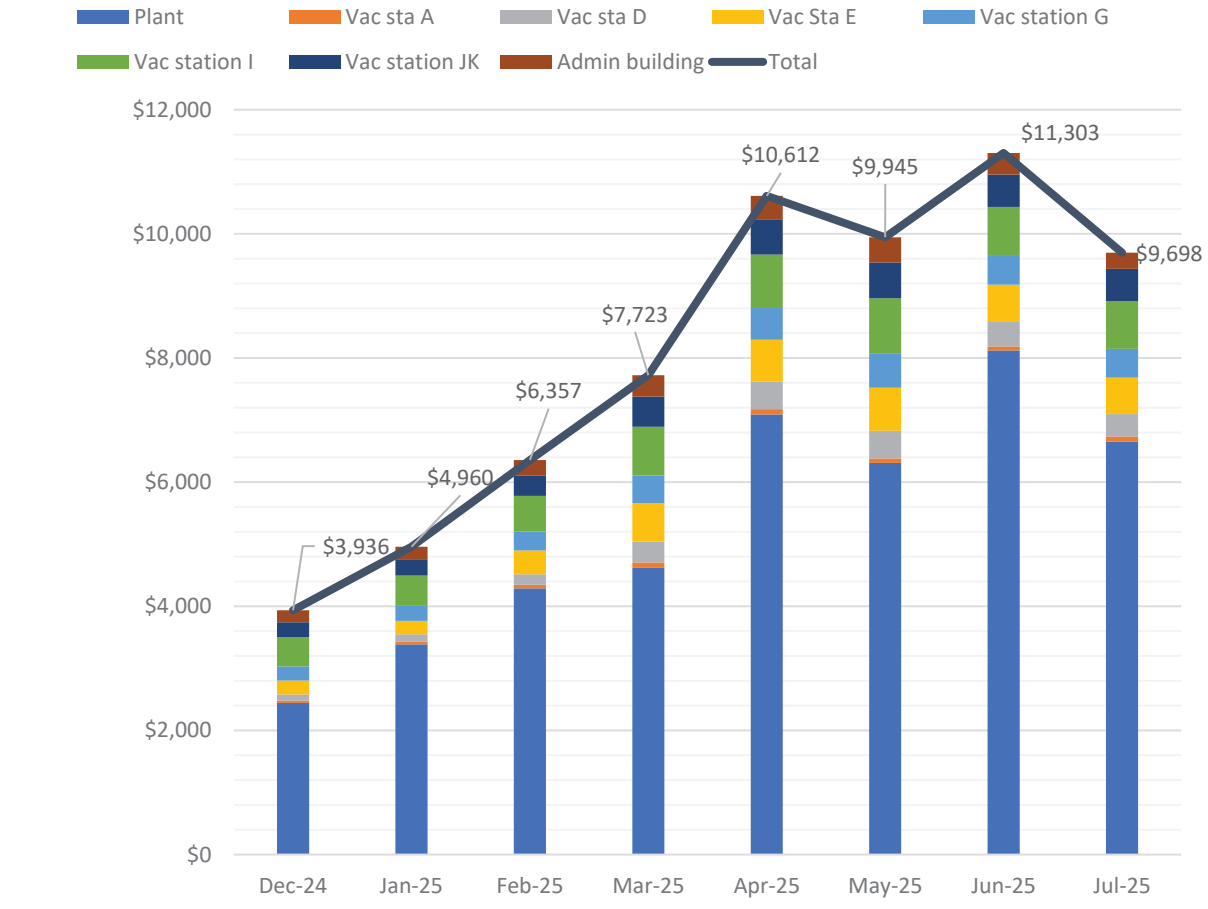
The daily peak salinity for the current month.



Islamorada

Average Daily Flow: .802 MGD
Highest Daily Flow: 1.0 MGD
Monthly Peak Salinity: 2.9 PPT
Days over 4.0 PPT Salinity: 0
3-month average of Islamorada flow capacity (1.104 MGD): 68%

Solar Production Report



	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25
Admin building	$194	$203	$248	$344	$388	$406	$348	$262
Vac station JK	$241	$263	$329	$486	$557	$576	$520	$518
Vac station I	$470	$486	$577	$786	$862	$896	$778	$771
Vac station G	$227	$242	$303	$446	$511	$546	$476	$464
Vac Sta E	$223	$217	$384	$620	$674	$693	$601	$587
Vac sta D	$102	$122	$171	$335	$443	$446	$393	$361
Vac sta A	$35	$40	$56	$87	$87	$71	$65	$81
Plant	$2,444	$3,387	$4,289	$4,619	$7,090	$6,311	$8,122	$6,654
Total	$3,936	$4,960	$6,357	$7,723	$10,612	$9,945	$11,303	$9,698

Total YTD Production estimate for all sites: $60,598

New Vacuum pump inlet filter upgrade project

Figure 1: Vacuum station E before

Figure 2: Vacuum station E with all new pump filters and support brackets installed

Figure 3:Vacuum station D Before

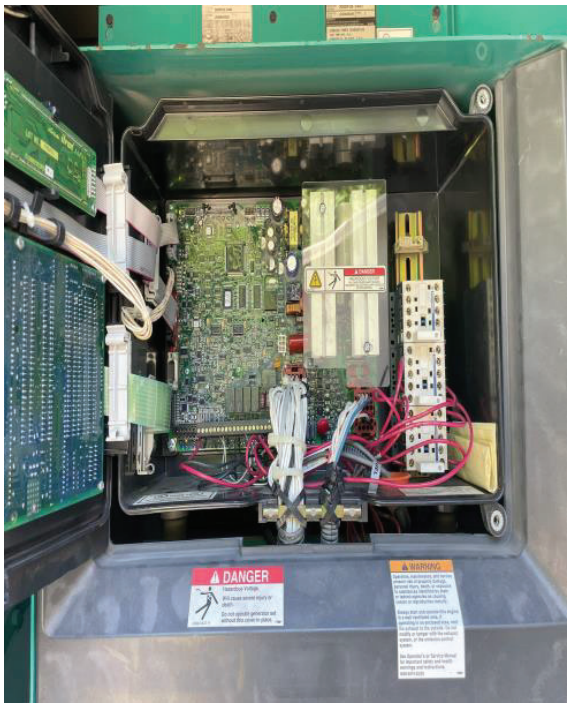
Figure 4: Vacuum station D 2 of 5 pump filters complete

Plant corrosion control and painting

Figures 5 and 6: Injection well pumps treated and painted.

Figures 7 and 8: Well piping treated and painted.

Facilities projects



Figures 9 and 10: Vacuum station I backup generator ECU repair

Figure 11: Digester motive pump belt adjustment.

Figure 12: Admin office Starlink install