

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

Meeting Date:
September 15, 2026

Agenda Item Number: M-1

Action Required:
No

Department: Capital Projects
Sponsor: Robert Mather

Subject:
Capital Projects Report - August 2026

Summary:
Mr. Mather will present the Capital Projects monthly report.

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

Approved By:  Date: 9-10-26
General Manager

Key Largo Wastewater Treatment District Capital Projects Report

Including updates through August 2026

Current Capital Projects

Effluent Filtration Upgrades (LPA0243)			
Original Contract Amount:	\$3,043,820.00	Funding Source:	FDEP Stewardship (LPA0243)
Current Contract (Including ODP's, CO's, Amendments):	\$3,343,823.76	Estimated Engineering and Other Costs Percentage:	15%
Construction Paid to Date:	\$2,882,800.16	Engineering Paid to Date:	\$509,389.21 (15.2%)
Retainage Held?	Yes, 5%	Project Completion:	88%
Balance to Complete:	\$461,023.60	On Schedule?	No
Contract Start Date:	05/18/2023	In Liquidated Damages?	Yes
Contract Substantial Completion:	06/17/2025	Days in Liquidated Damages and Rate:	455 days at \$1,000/day
Contract Final Completion:	07/17/2025	Total Liquidated Damages:	\$455,000

Project Updates:

- Evoqua submitted their Final Inspection Report Summary on July 18th, 2025, attributing the corrosion issues to process/reuse water and stagnant conditions rather than workmanship.
- Filter start-up was scheduled for the week of April 27th, 2026 with Evoqua on-site. Fitting spray bar nozzles, testing of control panel and disc drive occurred. During start-up, an issue was identified with the backwash pump motor, which required repair or replacement before the system can be fully tested and placed into operation.
- Evoqua's startup activities were halted after the backwash pump failed, preventing completion of filter commissioning and placement into service.
- Evoqua has ordered an exact stainless steel cased replacement backwash pump from Grundfos in mid-June, with a lead time of 30-weeks expected for arrival.
- Due to the unresolved pump failure, incomplete commissioning, and other outstanding work and contract requirements, KLWTD and Apex issued a Notice to Cure to Reynolds Construction requiring a recovery plan to accomplish timely completion of the remaining work.
- Reynolds has ordered a temporary cast-iron backwash pump to allow startup and testing of the disc filter upon arrival. Apex reviewed and approved the pump for temporary use while KLWTD awaits delivery of the permanent stainless-steel pump.
- The temporary Cast Head backwash pump arrived on August 31st and will be installed in the coming period.

Collection System Monitoring (LPA0424)			
Original Contract Amount:	\$7,575,677.00	Funding Source:	USACE & FDEP Stewardship (LPA0424)
Current Contract (Including ODP's, CO's, Amendments):	\$9,464,730.86	Estimated Engineering and Other Costs Percentage:	15%
Construction Paid to Date:	\$9,054,191.75	Engineering Paid to Date:	\$1,121,431.75 (11.8%)
Retainage Held?	Yes, 5%	Project Completion:	96%
Balance to Complete:	\$410,539.11	On Schedule?	Yes
Contract Start Date:	07/26/2022	In Liquidated Damages?	No
Contract Substantial Completion:	08/31/2026	Days in Liquidated Damages and Rate:	0 days at \$500/day
Contract Final Completion:	09/30/2026	Total Liquidated Damages:	N/A
<u>Project Updates:</u> • Work is completed in Basins A, B, C, D, F, G, H, I and JK. • Sensor installation is 100% complete (Note: This is only sensors and does not include other aspects of the project). Walkthroughs and final completions have been completed for all basins. • Valve rebuilds have been completed with a total of 3,000 rebuilds. • IVC and Flovac have completed installation of the vacuum monitoring system across all 2,967 vacuum pits and buffer tanks. Completion documentation was finalized in January and provided to KLWTD. • Grinder Pump/Low-Pressure monitoring installation has been completed with all 156 monitoring sensors installed for the project. • Substantial completion documentation for the valve rebuilds was completed in June. • In August, Flovac and Apex continued coordinating the remaining force main monitoring installations, including the reinstallation of previously installed components. Following review of the initial installations, the required materials and installation methods were clarified to ensure the remaining work meets the project requirements. Coordination continued through the end of August to review, approve, and procure the necessary materials. A portion of the required materials was delivered on August 27, with the remaining items anticipated to arrive in early September. • The construction progress meeting was delayed allowing for the monitoring equipment to be procured.			

Power Conditioning and Electrical Upgrades at the WWTP (LPA0426)			
Original Contract Amount:	\$2,670,450.00	Funding Source:	R&R & FDEP Stewardship (LPA0426)
Current Contract (Including ODP's, CO's, Amendments):	\$3,221,662.94	Estimated Engineering and Other Costs Percentage:	15%
Construction Paid to Date:	\$2,664,168.28	Engineering Paid to Date:	\$556,559.55 (17.3%)
Retainage Held?	Yes, 5%	Project Completion:	83%
Balance to Complete:	\$557,494.66	On Schedule?	Yes
Contract Start Date:	01/22/2025	In Liquidated Damages?	No
Contract Substantial Completion:	11/30/2026	Days in Liquidated Damages and Rate:	0 days at \$1,000/day
Contract Final Completion:	12/30/2026	Total Liquidated Damages:	N/A
<u>Project Updates:</u> - Exterior conduit installation is 100% complete, providing infrastructure for power, signal, and camera systems serving plant equipment and instrumentation throughout the facility, including the SBR/digester areas, Post EQ tank area, CCC platform, and other site infrastructure. - Electrical room modifications continued, along with coordination of voltage regulation transformer procurement, ATS and disconnect placement, and wiring. - The additional conductors pulled from the transformer have been routed through the current ATS and are ready for termination in new ATS during the planned shutdown on 6/10. - The Shutdown for the ATS connection was split into two nights to allow for the main service to be connected on the first night and the Generator connections to be made in the subsequent night shutdown. - Inspection reports continued to document open items and quality-control items, including conduit fitting adjustments at select GFCI locations and surface cleanup on walkways. - Pedro Falcon's Change Order No. 5 was approved at the August 18 Board meeting. Pedro Falcon plans to complete the required lightning protection mast extension when the voltage regulation transformer arrives on site and additional electrical work is underway. - The Voltage Regulation Transformer (SureVolt) is a two-part shipment, with a pallet of additional parts and spares with the device on a separate shipment. The pallet of additional parts and spares arrived on Wednesday August 26th. The shipment of the device is projected to be in early September. - Pedro Falcon, KLWTD, and APEX staff attended construction progress meetings on August 12th and 26th.			

Vacuum Stations Odor Control (KG004)			
Original Contract Amount:	\$4,009,141.26	Funding Source:	R&R & FDEP Stewardship (KG004)
Current Contract (Including ODP's, CO's, Amendments):	\$4,176,452.89	Estimated Engineering and Other Costs Percentage:	15%
Construction Paid to Date:	\$3,622,635.19	Engineering Paid to Date:	\$331,919.00 (7.9%)
Retainage Held?	Yes, 5%	Project Completion:	87%
Balance to Complete:	\$553,817.70	On Schedule?	Yes
Contract Start Date:	03/28/2025	In Liquidated Damages?	No
Contract Substantial Completion:	01/20/2027	Days in Liquidated Damages and Rate:	0 days at \$1,000/day
Contract Final Completion:	02/19/2027	Total Liquidated Damages:	N/A
<u>Project Updates:</u> - As of October 22nd, 2025, all (6) sets of Odor Control Tanks arrived at their respective vacuum station; All tanks have been delivered in acceptable condition. - Final connections have been completed at all vacuum stations. The new Odor Control systems are operational at all vacuum stations. - Vacuum Station E effluent odor line drainage has been installed. - Contractor has completed removal of existing Odor Control Systems. - CO #3 was approved by the Board on July 21, 2026. - Vacuum Station A & D's generators were delivered on July 28th. Both generators have been fastened in place and their belly tanks filled with fuel. Load testing and startup have been completed at Vacuum Station D, and is scheduled to occur on September 4th at Vacuum Station A. - Contractor has begun installation of additional maintenance flanges at each Vacuum Station. - Contractor has begun ordering materials for the Vacuum Station E belly tank replacement; manufacturer to provide fuel tank drawing submittal in the coming period for Apex review. - Apex is working on the design to reroute the odor control line above the entrance of the metal storage shed at Vacuum Station E. - Belle Construction, KLWTD, and Apex staff attended a construction progress meeting on August 13th, and 27th, 2026.			

Upcoming Capital Projects

EQ Tanks and Headworks Project (LPA0425)			
Expected Project Cost	\$15,641,000	Est. Design	90%
Existing State Funds	\$6,547,280	Est. Design Completion	Oct 2026
Funding Source	FDEP Resilient Florida & Stewardship (LPA0425)	Est. Construction Dates	February 2027 – February 2029
Project Status: The EQ Tanks and Headworks Project includes two (2) new 500,000-gallon pre-equalization tanks, a new headworks screening system, and related appurtenances and improvements. The project has reached the 90% design milestone, and a 90% progress plan set has been issued to the Owner and the Village of Islamorada for review and comments as the design progresses towards 100% completion. Updated CROM drawings reflecting the dual-tank configuration are anticipated to be received soon for integration into the overall plan set. Coordination with TSC Jacobs and Heyward remains ongoing for key components such as odor control, aeration diffusers, headworks screens, conveyors, control panels and the screening disposal system to confirm compatibility with the updated tank design. The team also continues to evaluate the existing electrical system onsite and coordinate the electrical upgrades required to support the proposed improvements, while process and instrumentation updates continue to advance. Apex has submitted a modification request to the existing Environmental Resource Permit (ERP) for the onsite stormwater management system to account for the proposed improvements. Remaining permitting activities include completion of the FDEP WWTP Operating Permit modification to incorporate dual-tank design and associated upgrades.			
Critical Systems Resilience and Mitigation Upgrades			
Expected Project Cost	\$15,957,588	Funding Source	FDEP Resilient Florida & Stewardship
Existing State Funds	\$7,978,794	Est. Construction Dates	Feb 2027 – Feb 2029
Project Status: Vacuum Tank Upgrades: This project includes replacement of existing steel vacuum tanks at all KLWTD vacuum stations with new corrosion-resistant fiberglass reinforced plastic tanks. Design work remains underway for Vacuum Station A and E tanks. The Vacuum Station E design plans are nearing the 90% completion milestone. Spot digs have been completed at Vac E to survey the tie in elevations and depth of excavation for the temporary tank. <i>Est. Design Completion: October 2026.</i> Ductile Iron Pipe Rehabilitation Project: This project rehabilitates ~4,200 linear ft of corroded ductile iron pipes at the Key Largo Wastewater Treatment Plant using CIPP lining for larger mains and selective HDPE open-cut replacement for smaller or severely deteriorated sections. Design is nearing the 90% for the pipe rehabilitation and replacement. The project also includes asphalt work, replacement of the PVC fire main, new isolation valves and SCADA-integrated flow meters and salinity meters on NTM & STM, improving system control. <i>Est. Design Completion: October 2026.</i> Floodproofing WWTP & Vacuum Stations: Project is in the conceptual design phase and was included within the Resilient Florida grant funding project request. Project included in FY 26-27 Budget. Power Conditioning at Vacuum Stations: Project is in the preliminary design phase and was included within the Resilient Florida grant funding project request. Project included in FY 26-27 Budget.			

Project Construction Photos



Figures 1 & 2: Additional Maintenance Flanges Installed at Vacuum Stations I and JK.



Figures 3 & 4: Vacuum Station D Final Wiring & 100% Load Testing Parameters