

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

Meeting Date:
March 17, 2026

Agenda Item Number: M-1

Action Required:
No

Department: Capital Projects Sponsor: Steve Suggs

Subject:
Capital Projects Report - February 2026

Summary:
Mr. Suggs 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: 3-12-26
General Manager

Key Largo Wastewater Treatment District Capital Projects Report

Including updates through February 2026

Current Capital Projects

Project	Original Contract Amount	Current Contract Amount (Including Direct Purchases, change orders and Amendments)	Engineering And Other Cost (Anticipated)	Total Project Cost (Anticipated)
Effluent Filtration Upgrades (LPA0243)	\$ 3,043,820.00	\$3,343,823.76	\$505,000.00	\$3,848,823.76
	Engineering Paid to Date	Construction Paid to Date	Balance to Complete (Anticipated)	Percentage Complete (Based off current processed pay applications)
	\$483,825.00	\$2,882,800.16	\$482,198.60	87%

Start of Contract: 5/18/2023
Substantial Completion Date: 6/17/2025 (755 Days) **Project on Schedule?:** No
Current Time Extensions to Contract: 395 Days
Funding Source: FDEP Stewardship (LPA0243)

Project Updates:

- Evoqua submitted their Final Inspection Report Summary on July 18th, attributing the corrosion issues to process/reuse water and stagnant conditions rather than workmanship.
- WEC/KLWTD and Reynolds prepared and sent a response rejecting Evoqua’s conclusions.
- KLWTD issued its formal response on Sept 3rd; Evoqua replied on Sept 19th disagreeing with Key Largo’s claims but offering to repair and transport the filter at no cost.
- Updated repair/delivery timeline was provided for the filter, and it was projected to be on site February 5th, 2026. Filter was delivered and had many QA/QC issues that raised concerns from all parties and Evoqua chose to remove the filter from site and return it to Thomasville, GA for repair.
- On February 26th a factory inspection of the disc filter was completed with representatives from Reynolds, Apex, Heyward, and KLWTD in attendance. Evoqua/Xylem has completed the recommended repairs identified during the inspection and provided documentation and photos of the work. The unit is scheduled to be delivered to the site on March 13, with Reynolds and Apex present to coordinate delivery and setup.
- Reynolds, WEC staff, and KLWTD staff did not attend any construction progress meetings.

Project	Original Contract Amount	Current Contract Amount (Including Direct Purchases, change orders and Amendments)	Engineering And Other Cost (Anticipated)	Total Project Cost (Anticipated)
Collection System Monitoring (LPA0424)	\$7,575,677.00	\$9,689,555.24	\$1,055,000.00	\$10,744,555.24
	Engineering Paid to Date	Construction Paid to Date	Balance to Complete (Anticipated)	Percentage Complete (Based off current processed pay applications)
	\$1,053,683.00	\$8,609,360.15	\$1,081,512.09	90%

Start of Contract: 7/26/2022
Substantial Completion Date: 4/22/2026 (1,399 days) **Project on Schedule?:** Yes
Current Time Extensions to Contract: 609 days
Funding Source: Combination of USACE & FDEP Stewardship (LPA0424)

Project Updates:

- 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 continued ~ 2,695 rebuilds completed.
- IVC and Flovac have completed installation of the vacuum monitoring system across all 2,967 vacuum pits and buffer tanks. Final completion documentation was finalized in January and provided to KLWTD.
- The balancing change order allowing for the final payment of IVC restoration and Flovac complete installation of the monitoring system was formulated. Change order #7 was approved at the November 18th board meeting allowing for the processing of pay app #26 and #27 and the addition of 3 gateways to improve the reception of the system.
 - The only remaining construction items are the low-pressure and high-pressure monitoring on the grinder pumps and force mains, respectively.
- The Grinder Pump/Low-Pressure monitoring is progressing well with approximately 131 monitoring sensors installed.
- Flovac began installation of the force main/high-pressure monitoring system. Initial equipment installation and programming were completed in late December; however, subsequent evaluation of the selected programming and devices prompted a change, and revised devices are currently on order.
- The construction progress meeting was held on February 3rd, 2026 with KLWTD, WEC/APEX, and Flovac staff.

Project	Original Contract Amount	Current Contract Amount (Including Direct Purchases, change orders and Amendments)	Engineering And Other Cost (Anticipated)	Total Project Cost (Anticipated)
Power Conditioning and Electrical Upgrades at the WWTP (LPA0426)	\$2,670,450.00	\$3,209,145.53	\$525,000.00	\$3,734,145.53
	Engineering Paid to Date	Construction Paid to Date	Balance to Complete (Anticipated)	Percentage Complete (Based off current processed pay applications)
	\$520,003.55	\$2,261,109.25	\$953,032.73	74%

Start of Contract: 1/22/2025
Substantial Completion Date: 07/08/2026 (532 days) **Project on Schedule?:** Yes
Current Time Extensions to Contract: 23 days
Funding Source: Combination of FDEP Stewardship (LPA0426) & R&R

Project Updates:

- Conduit installation is substantially complete across the project, supporting power, signal, and camera systems serving plant equipment and instrumentation throughout the facility (including SBR/digester areas, Post EQ tank area, CCC platform, and other site infrastructure).
- Construction activities focused on wire pulling, device-by-device re-routing, and terminations, with continued installation and termination of digital and analog control wiring into DCU1 and the second-floor MCC/electrical room cabinets (including decanter and waste sludge pump controls).
- Underground service conduit installation progressed from trenching and asphalt removal in late January to installation of 4-inch PVC conduit with bedding and electrical detection tape in early February, followed by backfill, surface restoration, and routing up the Operations Building wall.
- Camera system conduit and wiring installation continued through late February, including new conduit runs toward the digester area, pull-string installation, wire pulling, additional camera location installations (including new light pole cameras), and re-routing of wiring through junction boxes into the DCU1 area for final termination.
- Electrical room modifications continued, along with coordination on major equipment procurement including the voltage regulation transformer, with Larson Electronics selected as an approved equal to SureVolt following responsiveness concerns with UST.
- Inspection reports also documented punch-list and quality items including conduit fitting adjustments at certain GFCI locations, surface cleanup on walkways, and areas where wiring has been pulled but not yet fully terminated.
- Pedro Falcon, KLWTD and WEC/APEX staff attended the construction progress meeting on February 11th and 25th, 2026.

Project	Original Contract Amount	Current Contract Amount (Including Direct Purchases, change orders and Amendments)	Engineering And Other Cost (Anticipated)	Total Project Cost (Anticipated)
Vacuum Stations Odor Control (KG004)	\$4,009,141.26	\$4,009,141.26	\$400,000.00	\$4,409,141.26
	Engineering Paid to Date	Construction Paid to Date	Balance to Complete (Anticipated)	Percentage Complete (Based off current processed pay applications)
	\$270,266.50	\$2,803,727.18	\$1,335,147.58	70%

Start of Contract: 03/28/2025
Substantial Completion Date: 02/04/2026 (330 Days) **Project on Schedule?:** No
Current Time Extensions to Contract: 0 Days
Funding Source: Combination of FDEP Stewardship (KG004) & R&R

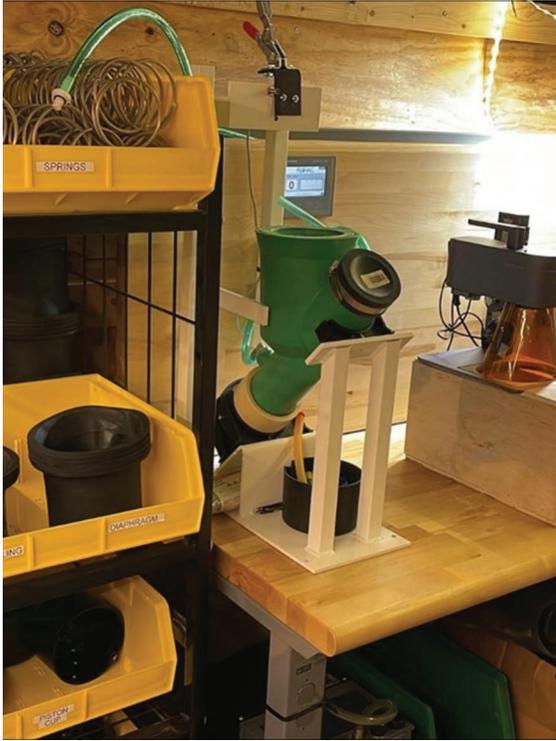
Project Updates:

- As of October 22nd 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 Vacuum Stations A, G, I, and J/K. The new Odor Control systems are operational at these (5) Vacuum Stations. Vacuum Station E is pending underground drainage pipe installation. Vacuum Station D and E to be completed in the following period. Contractor to begin removal of existing Odor Control System and site restoration in the following period.
- Permanent stainless-steel pipe supports for the new Odor Control System piping have been installed at all Vacuum Stations.
- Contractor completed coating of concrete slabs at Vacuum Stations A, D, E, G, and I. Coating work at station J/K in progress. 95% of new Odor Control System PVC piping has been coated; the remaining coating work is expected to be completed in the following period.
- Contractor has submitted updated delivery date from generator manufacturer Cummins. Generators are expected to arrive at Vacuum Station A and D by the end of June 2026.
- Belle Construction, KLWTD, and Apex staff attended a progress meeting on February 5th and February 19th, 2026.

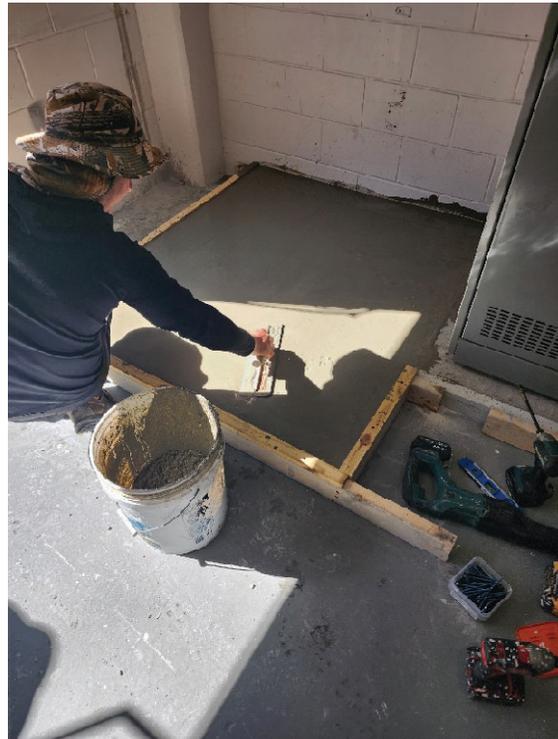
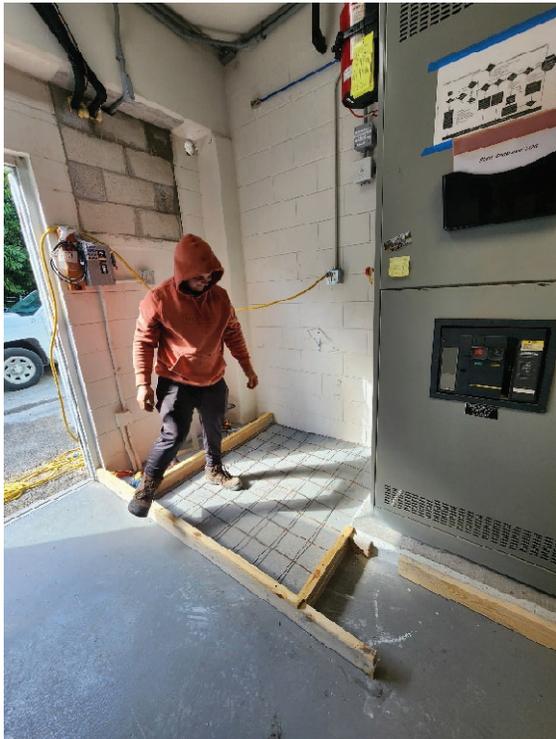
Upcoming Construction Projects

Project	Estimated Data	Status
EQ Tank and Headworks Project (LPA 0425)	Project Cost: \$11,523,215 Existing State Funds: \$6,570,814 Design: 60% Design Completion: June 2026 Construction: September 2026- September 2028 Funding Source: Stewardship and SLR	The EQ Tank and Headworks project includes two new 500k MGD pre-equalization tanks and a new headworks screening system. The team is coordinating with manufacturers on key components such as odor control, aeration diffusers, screens, and the disposal system. Pricing for several items has been received and is under review as design and equipment selection advance. A permit modification has been submitted to FDEP, and coordination is ongoing to address any RAIs. The District is also working with the Village of Islamorada as they evaluate design changes involving in-line booster pumps and macerators that may increase peak flows and require added screening capacity. Islamorada’s hydraulic modeling is complete, and the District is reviewing and coordinating with the Village.
Vacuum Tank Upgrades	Project Cost: \$12,370,312 Design: Preliminary Design Completion: August 2026 Construction: October 2026 Funding Source: Stewardship and SLR	Replace existing steel vacuum tanks at all KLWTD vacuum stations with new corrosion-resistant fiberglass reinforced plastic tanks. The project also upgrades foundations for flood resistance and installs new valves, fittings, gaskets, and SCADA controls. These tanks are critical to the wastewater collection system serving over 20,000 residents and seasonal visitors in the Upper Keys, including Islamorada. Design work has begun for the Vacuum Station A and E tanks. Apex intends to phase design and construction of the replacements to accomplish two tank replacements per year.
Pipe Protection Project	Project Cost: \$2,401,285 Design: 60% Design Completion: August 2026 Construction: Oct 2026 - Oct 2027 Funding Source: Stewardship and SLR	This project rehabilitates ~3,400 ft of corroded ductile iron mains 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. Apex is working with KLWTD to expose select subgrade pipes for corrosion analysis. Following the results of these inspections, a plan will be created for pipe rehabilitation or replacement potentially including CIPP Lining, cathodic protection, or HDPE open-cut replacement. The project also includes new isolation valves and SCADA-integrated flow meters, improving system durability, control, and leak prevention.
Blower Room Modifications Project	Project Cost: \$250,000 Design: Preliminary Funding Source: Stewardship and SLR	The KLWTD staff has requested the addition of an access door behind blower #4 to better service the blower. Currently, the other blowers must be removed to access blower #4. These modifications will allow for more efficient service of the blowers. This project is going to be incorporated in the EQ Tank and Headworks Project.

Project Construction Photos



Figures 1 & 2: Flovac Valve Rebuild Trailer and Rebuilt Valve Rack



Figures 3 & 4: Concrete Form Installed with Wire Mesh Reinforcement for ATS and Disconnect



Figures 5 & 6: Routing and Connecting Digital Wiring for Waste Sludge Pump #3 at MCC1



Figures 7 & 8: Evoqua/Xylem Repaired the Disk Filter to all Parties Standards



Figure 9: New Odor Control System Operational at Vacuum Station A



Figure 10: New Odor Control System Operational at Vacuum Station G



Figure 11: New Odor Control System Operational at Vacuum Station J/K