

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

Meeting Date:

November 18, 2025

Agenda Item Number: M-1

Action Required:

No

Department:

Capital Projects

Sponsor:

Steve Suggs

Subject:

Capital Projects Report - October 2025

Summary of Discussion:

Mr. Suggs will present the Capital Projects monthly report.

Reviewed / Approved

Operations: _____

Administration: _____

Finance: _____

District Counsel: _____

District Clerk: _____

Engineering: _____

Financial Impact

\$

Funding Source:

N/A

Budgeted:

N/A

Attachments

1. Monthly Report

Approved By: _____

General Manager



Date: 11/13/2025

Key Largo Wastewater Treatment District Capital Projects Report

Including updates through October 2025

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)
	\$468,174.25	\$2,882,800.16	\$497,849.35	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.
- WEC responded on Sept 23rd requesting a repair plan and timeline and instructing that a drain be added to the filter. Evoqua pushed back on Oct 10th citing API 650 compliance, but WEC disputed that claim. After further correspondence, Evoqua agreed to add additional drains to improve complete filter drainage. No updated repair/delivery timeline has been provided for the filter, and it is still projected to be on site the week of November 24th.
- 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	\$9,581,964.94	\$1,025,000.00	\$10,606,964.94
	Engineering Paid to Date	Construction Paid to Date	Balance to Complete (Anticipated)	Percentage Complete (Based off current processed pay applications)
	\$1,022,659.00	\$7,917,332.19	\$1,666,973.75	84%

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 have been completed for all basins, pending substantial and final completion for only Basin E0 and C.
- Valve rebuilds continued – 1,600 rebuilds completed.
- At the beginning of the period WEC, IVC, KLWTD and FloVac performed a walkthrough of the remaining subbasins of Basin C. The final punch list was distributed in early October along with Substantial Completion. IVC and Flovac notified WEC inspector of completed substantial completion punch list items in early November and WEC completed final punch list walkthrough.
- WEC and FloVac are working out the details for a final balancing change order as the construction is coming to an end.
 - The only remaining construction items are the low-pressure and high-pressure monitoring on the grinder pumps and force mains, respectively.
- The construction progress meeting was postponed throughout October due to scheduling conflicts among all parties and was ultimately held on November 4th with KLWTD, WEC, Flovac, and Island Villa 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	\$485,000.00	\$3,694,145.53
	Engineering Paid to Date	Construction Paid to Date	Balance to Complete (Anticipated)	Percentage Complete (Based off current processed pay applications)
	\$457,272.55	\$1,630,101.01	\$1,606,771.97	57%

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:

- By the end of October, approximately 98% of all conduits for the project had been installed.
 - Conduit was installed for cameras located around the plant, injection wells pumps, flow meters, turbidity meters, salinity probe display, chlorine analyzers displays, lighting, etc.
- Pedro Falcon installed pull strings in completed conduit runs and began pulling wire. The crew began pulling power wiring from the new PVC junction box on SBR #3 to the Post EQ tank using vacuum throughout the month of October.
- Much of the wire have been terminated in the panels that contain the equipment breakers throughout this period and will continue into the coming periods until the first scheduled shutdown.
- All site lighting conduit and poles have been installed and all wires connecting the light have been pulled and are ready for connection to power. Lighting is still awaiting shut down of the lighting on the WWTP.
- Airvac is under contract for the programming of the trailer to allow for the pumps on the trailer to shut off when the pressure sensor hits its set point. Trailer programming awaiting replacement control panel PLC to be installed and reprogrammed.
- During October, technical discussions were held with the manufacturer (UST) regarding the new SureVolt power conditioning equipment.
- Pedro Falcon, KLWTD and WEC staff attended the construction progress meetings on October 8th and October 29th.

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)
	\$232,593.25	\$1,951,415.33	\$2,225,132.68	50%

Start of Contract: 03/28/2025
Substantial Completion Date: 02/04/2026 (330 Days) **Project on Schedule?:** Yes
Current Time Extensions to Contract: 0 Days
Funding Source: Combination of FDEP Stewardship (KG004) & R&R

Project Updates:

- Vacuum Station A – At the end of the October period, the Contractor began applying Stucco to the completed CMU wall.
- Contractor completed coating of concrete slabs at Vacuum Stations D, G, and I. Coating work at stations A, E, and J/K beginning in the following period.
- On October 22nd (3) sets of Odor Control Tanks arrived at Vacuum Stations A, E, and J/K. At this time all tanks have been delivered in acceptable condition. Contractor plans to have piping installed to connect the tanks to the Vacuum Station systems in the coming periods.
- During October, the Contractor has made progress completing the piping for the odor control systems at D, G, and I. Start-up estimated for late November/early December at these stations.
- Belle Construction, KLWTD, and WEC staff attended progress meetings on October 9th and October 23rd.

Upcoming Construction Projects

Project	Estimated Data	Status
EQ Tank and Headworks Project (LPA 0425)	Project Cost: \$11,523,215 Existing State Funds: \$4,570,813.25 Design: 60% Design Completion: December 2025 Construction: July 2026-July 2028	The EQ Tank and Headworks project includes a new 1.00 MGD pre-equalization tank 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 RAls. 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: April 2026 Construction: TBD based on funding	Replace existing steel vacuum tanks at all KLWTD 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 only for the Vacuum Station E tank.
Pipe Protection Project	Project Cost: \$2,401,285 Design: 30% Design Completion: April 2026 Construction: March 2026-March 2027	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. WEC has contacted seven vendors and is reviewing CIPP specifications from two of them. A new cathodic protection system with sacrificial anodes will be added to prevent future corrosion. 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	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 currently in the preliminary design phase.

Project Construction Photos



Figures 1 & 2. Completing Final Punch List Walkthrough For Basin C For The Collection System Monitoring Project



Figures 3 & 4. Routing Wire Into MCC For Equipment Preparing For Shutdown For Final Connection



Figures 5 & 6. Wire Pulled Through New Conduit At The Injection Well Pumps



Figures 7 & 8. Open Preliminary Punch List Items



Figure 9 & 10. Odor Control System Piping Nearly Completed.



Figure 11. Scaffolding Installed To Begin Finish Work At Vac Station A