Key Largo Wastewater Treatment District
Board of Commissioners Meeting
Tuesday, November 17, 2026
4:00 PM

AGENDA

Board of Commissioners Meeting
103355 Overseas Highway
Key Largo, FL 33037

BOARD MEMBERS:

Nicolas Rodriguez	Chairman
Matthew Hardee	Secretary-Treasurer
Robert Majeska	Commissioner
Philip Schwartz	Commissioner
John Brooke	Commissioner

DISTRICT STAFF:

Peter Rosasco	General Manager
Nicholas Mulick	General Counsel
Shannon McCully	Clerk

MISSION STATEMENT:

"The Mission of the Key Largo Wastewater Treatment District is to preserve and protect the delicate ecosystem of the Florida Keys while providing exceptional customer service."

Please mute cell phones.

A. CALL TO ORDER

B. PLEDGE OF ALLEGIANCE

C. SWEARING IN OF NEW COMMISSIONERS

D. ROLL CALL

E. ELECTION OF BOARD OFFICERS

F. AGENDA ADDITIONS, CORRECTIONS, OR DELETIONS

G. PUBLIC COMMENT

H. APPROVAL OF MINUTES OF PREVIOUS MEETING
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N. PLANT/FACILITIES

O. CAPITAL PROJECTS
1. Capital Projects Report – October 2026 82
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P. ENGINEERING

Q. LEGAL

R. COMMISSIONER’S ITEMS

S. ROUNDTABLE

T. ADJOURNMENT

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

Meeting Date:

November 17, 2026

Agenda Item Number: H-1

Action Required:

Yes

Department:

Legal

Sponsor:

Nicholas Mulick

Subject:

Minutes of October 20, 2026

Summary:

Staff will present the minutes of October 20, 2026, for approval.

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

Approved By: _____ **Date:** 11-12-26

General Manager

Key Largo Wastewater Treatment District
103355 Overseas Hwy, Key Largo, FL
Tuesday, October 20, 2026

MINUTES

CALL TO ORDER (A)
Chairman Nicolas Rodriguez called the meeting to order at 4:00 p.m.

PLEDGE OF ALLEGIANCE (B)
Mr. Brandon Curll led the Pledge of Allegiance.

ROLL CALL (C)
Present were: Chairman Nicolas Rodriguez; Commissioners Tim Maloney, Robert Majeska, and Matthew Hardee

Appeared Virtually (non-voting): Commissioner Philip Schwartz

Also present: General Counsel Nicholas Mulick; District Clerk Shannon McCully; Finance Manager Jennifer Dempsey; HR and Project Administration Manager Laura Weinstock; Customer Service Manager Alex Irizarry; Plant/Facilities Manager Ryan Dempsey; WWTP Lead Operator Adam Baptiste; Inspections Supervisor/GIS Administrator Brandon Curll; Apex Engineering Rob Mather

Appeared Virtually: Apex Engineering Steve Suggs; IT Support Manny Santana

AGENDA ADDITIONS, CORRECTIONS, OR DELETIONS (D)
Approval of Agenda (D-1)

Motion: **Commissioner Majeska made a motion to approve the agenda. Commissioner Maloney seconded the motion. Motion passed without objection.**

PUBLIC COMMENT (E)
No speakers.

APPROVAL OF MINUTES (F)
Minutes of September 15, 2026 (G-1)

Motion: **Commissioner Hardee made a motion to approve the Minutes of September 15, 2026. Commissioner Maloney seconded the motion. Motion passed without objection.**

GENERAL MANAGER (G)
2027 BOC Meeting and Holiday Schedule (G-1)
Ms. Weinstock presented the Board or Commissioners and Holiday Schedule for 2027.

Motion: Commissioner Hardee made a motion to approve the 2027 Board of Commissioners and Holiday Schedule. Commissioner Maloney seconded the motion.

Vote on Motion:

Commissioner Hardee – Aye
Commissioner Maloney – Aye
Commissioner Majeska – Aye
Chairman Rodriguez – Aye

Motion: Commissioner Hardee made a motion to re-open the agenda and requested item *K-1 FTC Key Largo GIS Data for iWater* be presented before item *I-1 Customer Service Report – September 2026.* Commissioner Majeska seconded the motion.

Vote on Motion:

Commissioner Hardee – Aye
Commissioner Majeska – Aye
Commissioner Maloney – Aye
Chairman Rodriguez – Aye

IT (H)
No report in agenda.

CUSTOMER SERVICE (I)
Customer Service Report – September 2026 (I-1)
Mr. Irizarry presented the Customer Service monthly report.

BUDGET AND FINANCE (J)
Budget and Finance Report – September 2026 (J-1)
Ms. Dempsey presented the Budget and Finance monthly report.

FIELD (K)
FTC – Key Largo GIS Data for iWater (K-1) (Presented before item I-1 Customer Service Report – September 2026)
Mr. Dempsey presented a proposal from Florida Technical Consultants for integration of GIS Data with iWater for approval.

Motion: Commissioner Maloney made a motion to approve the proposal. Commissioner Majeska seconded the motion.

Vote on Motion:

Commissioner Maloney – Aye

Commissioner Majeska – Aye
Commissioner Hardee – Aye
Chairman Rodriguez – Aye

Spare Grinder Pumps Purchase (K-2)
Mr. Dempsey presented a proposal from Wascon Sales and Service for purchase of spare grinder pumps for approval.

Motion: Commissioner Hardee made a motion to approve the proposal. Commissioner Maloney seconded the motion.

Vote on Motion:

Commissioner Hardee – Aye
Commissioner Maloney – Aye
Commissioner Majeska – Aye
Chairman Rodriguez – Aye

PLANT/FACILITIES (L)
Plant/Facilities Report – August and September 2026 (L-1)
Mr. Dempsey presented the Plant/Facilities monthly reports.

CAPITAL PROJECTS (M)
Capital Projects Report – September 2026 (M-1)
Mr. Mather presented the Capital Projects monthly report.

ENGINEERING (N)
No report in agenda.

LEGAL (O)
Refund to Florida Keys College for Overpayment of Monthly Base Charge (Reso No. 18-2026) (O-1)

Mr. Mulick presented a Resolution 18-2026 authorizing a refund to the College of the Florida Keys for overpayment of monthly base charge.

Motion: Commissioner Maloney made a motion to adopt Resolution 18-2026. Commissioner Hardee seconded the motion.

Vote on Motion:

Commissioner Maloney – Aye
Commissioner Hardee – Aye
Commissioner Majeska – Aye
Chairman Rodriguez – Aye

COMMISSIONER ITEMS (P)
WEFTEC Conference Update (P-1)
Commissioner Schwartz gave an update on the WEFEC Conference he attended with

Chairman Rodriguez, Ryan Dempsey, and Rudy Perez.

ROUNDTABLE DISCUSSION (Q)

ADJOURNMENT (R)
The meeting was adjourned at 5:31 p.m.

_____ _____
Nicolas Rodriquez, Chairman Shannon McCully, Clerk

Seal_____

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

Meeting Date:

November 17, 2026

Agenda Item Number: I-1

Action Required:

Yes

Department:

General Manager

Sponsor:

Peter Rosasco

Subject:

Banking Services with First Horizon Bank

Summary:

Mr. Rosasco will propose opening a new account with First Horizon Bank.

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

Approved By: _____ **Date:** 11-12-26
General Manager

Key Largo Wastewater Treatment District
103355 Overseas Highway, Key Largo, FL 33037
Post Office Box 491, Key Largo, FL 33037
Phone (305) 451-4019 • www.klwtd.com

November 17,2026

Re: Banking Services with First Horizon Bank

In September 2026 KLWTD Staff met with representatives from First Horizon Bank regarding banking opportunities.

Currently the District does not hold any accounts with First Horizon. During the meeting First Horizon suggested a Public Funds Now account that the District would like to use for R&R purposes. This is a savings account with a current interest rate of 3.85%. It is a floating rate that is tied to Fed Fund Upper Bound -0.25%.

District staff would like to extend our banking relationships with local banks in Key Largo therefore we are recommending we open this account and deposit $6,500,000.00.

Once we have opened this account with First Horizon it will spread our R&R Reserves across the 3 local banks in Key Largo.

Currently we have an R&R account with First State earning 4.85%, and an R&R account earning 3.55% with Centennial.

Our primary accounts will remain with Centennial at this time earning the same interest as the R&R of 3.55%.

KLWTD R&R Balances		
	Current Balances	Projected With First Horizon
First State	$ 6,483,013.70	$ 6,483,013.70
Centennial	$ 13,809,897.74	$ 7,309,897.74
First Horizon	$ -	$ 6,500,000.00
Total	$ 20,292,911.44	$ 20,292,911.44

Non R&R Centennial Balances	
General Operating	$ 11,187,424.58
Payroll	$ 343,460.56
Debt Service	$ 868,717.53
Self Insurance	$ 5,647,605.87
Total	$ 18,047,208.54

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

Meeting Date:

November 17, 2026

Agenda Item Number: I-2

Action Required:

No

Department:

General Manager

Sponsor:

Peter Rosasco

Subject:

FKWQIP Update

Summary:

Mr. Rosasco will give an update of FKWQIP funding and provide an overview of the recent FKWQIP Steering Committee Meetings.

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

Approved By: _____ **Date:** 11-12-26
General Manager

FL KEYS WATER QUALITY IMPROVEMENTS (FKWQI) PROGRAM

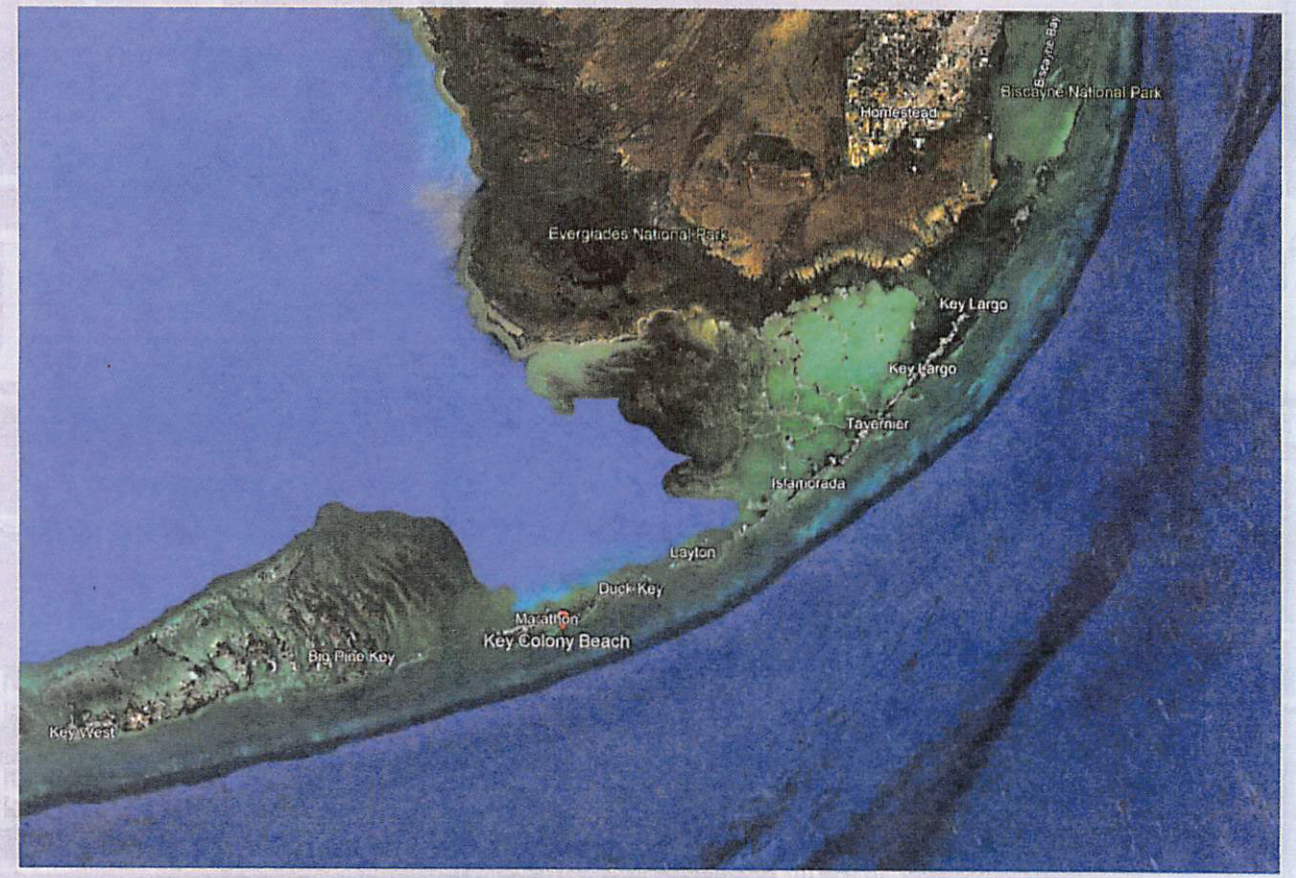
ENVIRONMENTAL INFRASTRUCTURE (EI) SECTION 109 PROGRAM
U.S. ARMY CORPS OF ENGINEERS, JACKSONVILLE DISTRICT

FL Keys National Marine Sanctuary Steering Committee Meeting

SAJ FKWQI Program Updates

Marathon City Council Chamber

29 October 2026



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PROGRAM PURPOSE & SANCTUARY PROTECTION OBJECTIVES

- **Mission:** Improve the water quality of nearshore waters within the Florida Keys National Marine Sanctuary, the nation's premier coral reef marine protected area.
- **Interagency Alignment:** Directly supports Sanctuary Water Quality Protection Program (WQPP) priorities by eliminating non-point pollution, cesspits, and outdated wastewater/stormwater practices.
- **Responsive Infrastructure:** Provides cost-effective, long-term technical and financial assistance for:
  - Centralized wastewater collection and advanced wastewater treatment (AWT).
  - Stormwater treatment, retention, and conveyance.
  - Residential canal water quality restoration and circulation remediation.

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LEGISLATIVE FOUNDATION & FUNDING MECHANICS

- **Authorizing Statute:** Section 109, Public Law 106-554, as amended by Section 8376 of WRDA 2022 (Public Law 117-263).
- **Unified Federal Capacity:** Total program authorization cap expanded from $100 million to $200 million.
- **Cost-Sharing Framework:**
  - **65% Federal Share** (USACE reimbursement).
  - **35% Non-Federal Sponsor Share** (Municipalities / County / Utility).
- **Core Statutory Constraints:**
  - Financial assistance operates strictly on a reimbursement basis (not a block grant).
  - Pre-agreement construction work is strictly non-reimbursable.
  - Non-federal sponsors provide all real estate (LERRD) and fund 100% of operations, maintenance, repair, and replacement (OMRR&R).

PROGRAM ACCOMPLISHMENTS: INITIAL $100M STATUS

- **Execution Status:** Over 95% of initial funds ($89.4M+) disbursed to local sponsors to date.
  - **City of Key West** ($10.32M): Fully Reimbursed. AWT upgrades and stormwater drainage systems complete.
  - **City of Key Colony Beach** ($200K) & **City of Layton** ($800K): Fully Reimbursed. Treatment works completed.
  - **City of Marathon** ($29.56M): Package #25 processed ($284.6K net).
  - **Key Largo Wastewater Treatment District** ($29.56M): Package #27 processed ($565.0K net).
  - **Village of Islamorada** ($29.56M): Package #24 processed ($2.71M net).
- Target Milestone: Complete 100% of the initial $100 million authorization in FY27.

ADDITIONAL $100M AUTHORIZATION & FY28 READINESS

- **Expansion to Eight Entities:** Program expands to include Monroe County and the Florida Keys Aqueduct Authority (FKAA) alongside the six municipal sponsors.
- **Negotiated Local Consensus:** NFS agreed to align federal distributions with the State of Florida Stewardship Program Interlocal Agreement (ILA).
- **Shift to Project-Specific Budgeting:**
  - Federal budgeting has shifted from programmatic block allocations to discrete, validated project line items.
  - USACE capabilities database requires verified engineering scopes of work, budgets, and schedules for each Congressional cycle.
- **FY28 Readiness in Motion:**
  - **4 entities have already submitted official FY28 project packages totaling $142.6M:** Monroe County (Canal 278 Injection Wells), Islamorada (Canal 148 Restoration), Marathon (Deep Well & Hardening), and Key Largo (EQ Tanks & Headworks).
- **Anticipated Federal Funding Realities:** Projected appropriations baseline of $5 to $6 million annually based on Congressional capabilities.

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GOVERNANCE & IMPLEMENTATION ROADMAP

- **Streamlined Administrative Process:**
  - Single overarching EI Section 109 Agreement per participating entity.
  - Specific increments of work executed via streamlined Letter Reports (eliminating recurring agreement amendments).
- **Environmental Compliance (NEPA):**
  - Comprehensive NEPA coverage established for historical wastewater projects.
  - Tiered Supplemental Environmental Assessments (EAs) will be conducted for newly added canal restoration and stormwater resilience projects.
- **Near-Term Milestones:**
  - **DEC 2026:** Finalize Interlocal Agreement among all 8 entities; review and validate FY28 submissions from the 4 candidate sponsors. Complete efforts for Marathon and Key Largo.
  - **FY2027:** Complete final $4.33M reimbursement for Islamorada.
  - **FY2028 Cycle**: First full implementation cycle under the new project-specific Section 109 framework.

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SUSTAINING THE FEDERAL PARTNERSHIP

- **Proven Federal-Local Success:** Over $89M disbursed, transforming municipal wastewater treatment and reducing nutrient loads to Sanctuary waters.
- **Clear Path Forward:** Statutory authorization cap in place ($200M); local governance consensus achieved across 8 participating entities.
- **Demonstrated Readiness:** 4 participating sponsors have already submitted candidate project packages for the FY28 funding cycle.
- **Commitment to NOAA Coordination:** Continued coordination with the Water Quality Protection Program to track environmental metrics and leverage infrastructure investments.

QUESTIONS?

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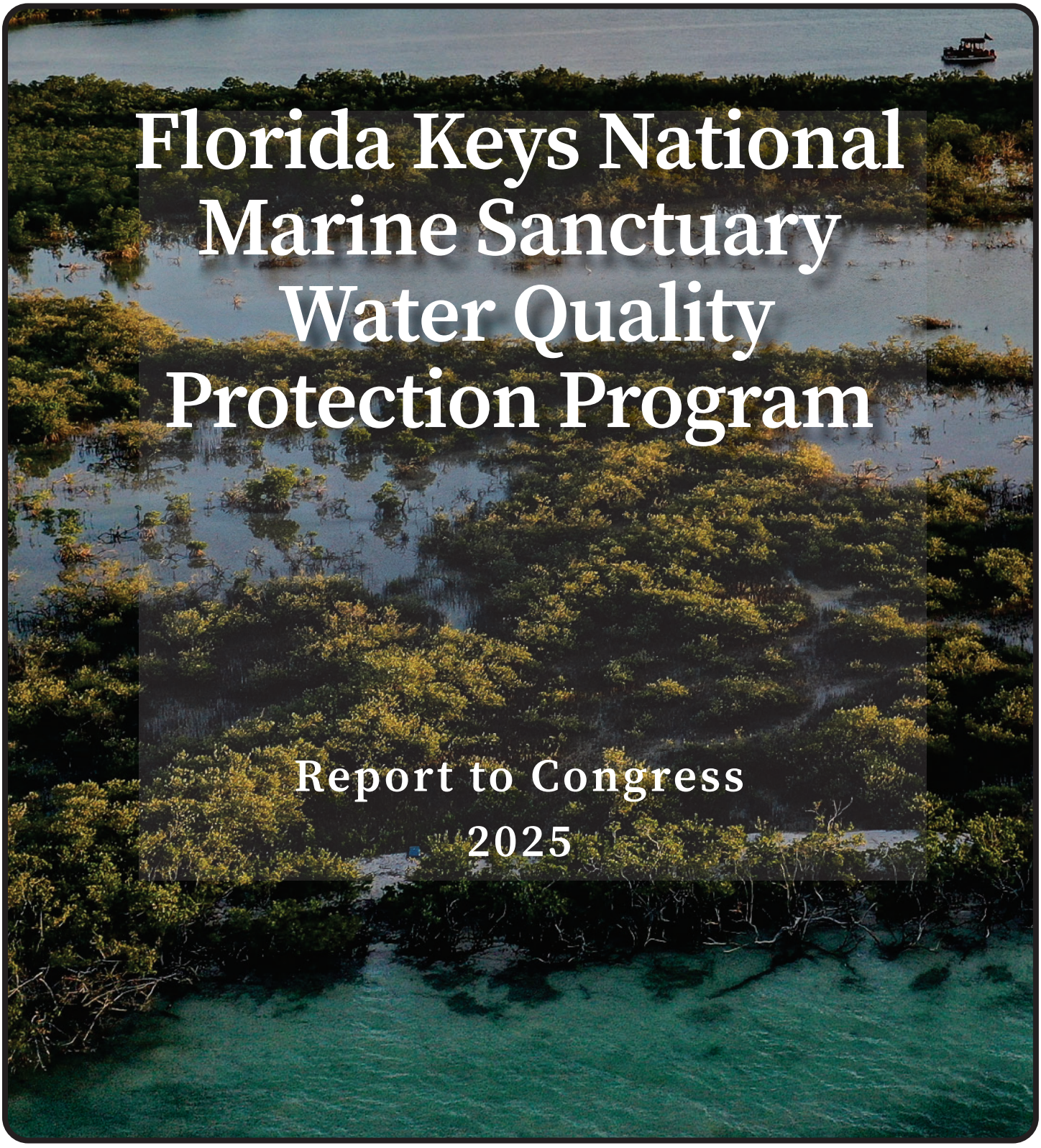
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Florida Keys National Marine Sanctuary Water Quality Protection Program

Report to Congress

2025

This report was created by the Water Quality Protection Program Co-Chairs, the Environmental Protection Agency and Florida Department of Environmental Protection, in cooperation with the Florida Keys National Marine Sanctuary Water Quality Protection Program Partners.

September 2026

Water Quality Protection Program Steering Committee

Committee Chairs

U.S. Environmental Protection Agency, Region 4 (co-chair)
Florida Department of Environmental Protection (co-chair)

Federal Partners

National Oceanic and Atmospheric Administration
National Park Service
U.S. Army Corps of Engineers
U.S. Fish and Wildlife Service

State and Local Partners

City of Layton
City of Key Colony Beach
City of Key West
City of Marathon
Florida Department of Commerce
Florida Department of Health
Florida Fish and Wildlife Conservation Commission
Florida Keys Aqueduct Authority
Florida Keys Environmental Fund
Florida Keys Mosquito Control District
Islamorada, Village of Islands
Key Largo Wastewater Treatment District
Monroe County Board of County Commissioners
South Florida Water Management District

Citizen Representatives

Eco Legacy Solutions LLC
Florida Keys National Marine Sanctuary Advisory Council representative
Florida Sea Grant
Marine Industries Association of South Florida
The Nature Conservancy

Message from the Steering Committee

On behalf of the Water Quality Protection Program Steering Committee, the U.S. Environmental Protection Agency and the Florida Department of Environmental Protection are pleased to present this Florida Keys National Marine Sanctuary Water Quality Protection Program Report to Congress covering the reporting period from 2014-2024.

The Florida Keys National Marine Sanctuary and Protection Act amendments of 1992 (Public Law 102–587) established a Steering Committee, which meets regularly, providing guidance to the co-chairs of the Water Quality Protection Program, coordinating with sanctuary staff and one another, and engaging the public. Committee members include federal, state, county, and municipal government staff and knowledgeable citizen representatives from across the Florida Keys and beyond. Together, Steering Committee members pursue the goals of identifying and addressing water quality concerns in this highly sensitive and valuable marine ecosystem.

Since the last Report to Congress, the Florida Keys National Marine Sanctuary Water Quality Protection Program (WQPP) has made significant progress on corrective actions. New infrastructure in Key Largo, Islamorada, Village of Islands, City of Layton, and the highly challenging portion of the unincorporated lower Florida Keys served by the Cudjoe Regional Wastewater System has made advanced wastewater treatment available for almost the entirety of the archipelago. Successful canal water quality restoration efforts using a variety of innovative approaches have advanced from one end of the Keys to the other. Wastewater pump-out vessels serve the anchorages and mooring fields that live-aboard boaters call home.

Monitoring programs and studies, funded mostly by the U.S. Environmental Protection Agency's South Florida Program, have documented changing natural resource conditions, helped identify areas for additional action and proposed solutions. For example, water quality data show mixed results, with some of the pollutants declining while others increased. Monitoring of coral populations on America's only mainland barrier reef shows steep declines from hurricanes, heat- and cold-induced coral bleaching and a novel and lethal coral disease. Long-term water quality degradation may be reflected in some areas experiencing seagrass cover changes. Special studies and projects covered everything from sea sponge restoration and fate tracking of wastewater injected into shallow disposal wells to the development of a free boater education program.

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Executive Summary

Florida Keys National Marine Sanctuary (FKNMS) was established in 1990 by the Florida Keys National Marine Sanctuary and Protection Act (Public Law 101-605) to protect the vital marine ecosystems of the Florida Keys, including coral reefs, seagrass meadows, and mangrove islands. Established as part of the Sanctuary Act, the Water Quality Protection Program (WQPP) is co-chaired by the U.S. Environmental Protection Agency (EPA) and the Florida Department of Environmental Protection (FDEP) to study and address water quality issues within the national marine sanctuary. This Report to Congress, which covers the reporting period from 2014-2024, is required by the Act every two years.

Since the previous Report to Congress, the Water Quality Protection Program and its partner agencies and organizations have made significant progress in improving water quality in the Florida Keys. The EPA's South Florida Program funded long-term monitoring programs, scientific studies, and educational outreach projects focused on water quality in the Keys. These grants to academic institutions, non-governmental organizations, state agencies, and other non-federal entities provided actionable knowledge and proofs of concept that enabled local governments and utilities to implement large-scale water quality enhancement projects, like deep wastewater injection wells, that improve the health of the ecosystems and people who depend on these waters. Specific examples of progress include the following:

- Advanced wastewater treatment: Nearly the entire archipelago has transitioned from septic to advanced wastewater treatment systems, improving water quality across the region.
- Canal restoration: Innovative approaches have begun to successfully restore canal water quality, enhancing the health of local waterways, and efforts continue today.
- Wastewater pump-out vessels: These vessels serve anchorages and mooring fields, preventing the direct introduction of untreated sewage and pollution into marine environments.
- Continuation of long-term monitoring programs: Ongoing monitoring tracks changes in natural resources, identifies issues and proposes solutions to maintain the sanctuary's health extending to all of Florida's Coral Reef.
- Wastewater injection: Impacts from wastewater injection into shallow wells have been identified and are being addressed by exploring deep-well injection methods for major treatment facilities.
- Stormwater treatment: The Steering Committee approved a resolution in 2023, urging the federal and state transportation agencies to provide funding for adding stormwater treatment to all roadway projects, not just enlargements of facilities.

Despite these achievements, complex cross-jurisdictional water quality challenges persist in the Florida Keys, and solutions require engagement by many partners. The WQPP convenes these partners to foster a common understanding of water quality issues and develop consensus on the strategies to achieve water quality improvements. A list of ongoing WQPP priorities can be found in Appendix 1.

The WQPP remains dedicated to collaboration and adaptation, fostering the protection of this valuable ecosystem and economy for the benefit of Florida, FKNMS, and future generations.

Florida Keys National Marine Sanctuary

A Nationally Significant Ecosystem

Geographic Scope and Environmental Importance

Florida Keys National Marine Sanctuary (FKNMS) protects 4,539 square miles of water surrounding the Florida Keys. The Keys archipelago extends southwest 220 miles from Miami, Florida to the Dry Tortugas. Within the sanctuary lies unique and nationally significant marine resources, including the majority of North America's only barrier coral reef, one of the world's most extensive seagrass meadows, 1,800 miles of fringe mangrove islands, and more than 6,000 species of marine life.

Florida's Coral Reef is the only shallow water, tropical coral reef ecosystem in the continental United States. Since the 1970s, Florida's Coral Reef has lost an estimated 90 percent of its coral cover due to a combination of impacts including water quality degradation, thermal stress events, severe storms, increased disease presence, and direct human impacts. The coral reefs surrounding the Florida Keys provide habitat that support fisheries (fish, shrimp, mollusks and sponges) and the industries that rely on them. In addition to being critical for the continued existence of Florida's fisheries, the coral reef provides significant protection from storms. Florida's Coral Reef and its associated diversity also drive tourism in the Florida Keys.

The Florida Keys ecosystem includes 1.5 million acres of seagrass meadows, one of the most productive habitats in south Florida. The seagrass meadows provide an important food source and an essential habitat for wildlife. Their root systems stabilize the ocean floor, and the grasses provide water quality benefits by absorbing nutrients and slowing the flow of water, allowing sediments and pollutants from land to fall out of the water column and settle onto the seafloor. Seagrass beds have declined due to water quality degradation and direct loss of habitat related to dredging, coastal development, and boating impacts. Thermal stress events, reduced freshwater inputs, elevated salinity, land use and runoff, and increased nutrients also contribute to die-offs.

Mangroves are salt-tolerant trees that line more than 1,800 miles of shoreline within FKNMS. Their thick roots allow them to withstand strong winds and waves, protecting coastlines from storm damage. Mangroves also provide water quality benefits, trapping sediments and contaminants that could bury and suffocate nearby hard-bottom and coral reef habitats. Many commercially and recreationally important reef fish and invertebrates use mangroves as a nursery habitat, finding refuge in their tangled roots. As their roots collect sediments, mangroves create more land and build up islands. Habitat destruction, direct removal, major storms that alter hydrology and poor water quality pose threats to these important shoreline protectors.

The Florida Keys' reefs, seagrasses, and mangroves offer essential habitat for commercially and recreationally important fisheries, enhance shoreline protection and storm mitigation for homes and infrastructure, and provide the foundation of the Florida Keys' thriving multibillion-dollar tourism economy.

Economic Importance

The Florida Keys generate a "blue economy," where employment, businesses, and tourism depend on the sustainability of aquatic environmental resources, including clean water and healthy ecosystems. A 2019 National Marine Sanctuary Foundation report identified FKNMS tourism and recre-

ational value as a major driver of the state's gross domestic product (GDP). Approximately 5 million people visit FKNMS annually for its world-class fishing, scuba diving, beaches, recreational boating, and wildlife interactions. In 2015, FKNMS estimated that the Sanctuary's economic activity supported around 43,000 jobs and contributed $4.4 billion to south Florida's economy.[1] The National Oceanic and Atmospheric Administration (NOAA) estimates that these contributions have grown since that time: in 2020, NOAA estimated Florida's Coral Reef has an asset value of $8.5 billion and contributes 70,400 jobs.

Healthy reefs can absorb up to 97 percent of wave energy from tropical storms, protecting over $560 million in building infrastructure and $320 million GDP in south Florida per year.[2] In Monroe County alone, the commercial fishing industry generates $900 million in annual revenue,[3] while the recreational fishing industry is valued at more than $810 million.[4] Approximately 64 percent of residents in this area (ages of 16 – 65) hold recreational saltwater fishing licenses, the highest percentage among Florida counties.[5]

Factors Affecting Water Quality

Local, regional and global factors, both natural and anthropogenic in origin, influence water quality in the Florida Keys. Natural local processes such as tides, currents, oceanic upwelling and hurricanes, and global trends such as increasing temperatures and ocean acidification impact the sensitive ecosystems in this region. Locally, the low topography and porous limestone geology of the Florida Keys create strong connections between land and water, allowing nutrients and pollutants from stormwater, wastewater, and groundwater to rapidly migrate to nearby coastal waters. Vessel discharges, habitat destruction, and marine debris also affect local water quality. Increasing human activities associated with population growth, development, and tourism further impact the balance of the Florida Keys ecosystems.

Regionally, discharge from highly urbanized areas to the northeast and northwest, as well as the altered and engineered flow of freshwater from the Everglades, influence water quality in the Florida Keys. Ocean currents carry pollutants from the western Gulf of America and Florida across the southwest shelf to the Keys. Pollutants from the southeast Florida coast also migrate south along the Florida Keys through eddies and counter currents, despite the northerly flow of the Florida Current, as evidenced by a recent coral disease outbreak.

Other influences on sanctuary waters include hurricanes, such as Irma in 2017 and Ian in 2022, which transported large amounts of debris and nutrients from impacted urban centers along the west coast of Florida and physically impacted the reef structure. Winds and currents in the North Equatorial and Caribbean current systems[6] also carry large quantities of *Sargassum*, a type of brown algae. While important to the health and biodiversity of open ocean ecosystems, *Sargassum* can negatively affect sanctuary waters when large floating mats reach the shore.[7]

Florida Keys National Marine Sanctuary and Protection Act

Public concern over deteriorating water quality, coral reef health, large vessel groundings, and proposed offshore oil drilling led Congress to establish the FKNMS through the Florida Keys National Marine Sanctuary and Protection Act (Public Law 101-605; Sanctuary Act) in 1990. As a component of that Act, Congress recognized the need for clean water to maintain sanctuary marine resources in support of the local economy and created the Water Quality Protection Program (WQPP).

Water Quality Protection Program

The EPA and the FDEP co-chair the WQPP, in consultation with the NOAA Office of National Marine Sanctuaries (ONMS). The Sanctuary Act tasks the program with adopting or revising water quality standards for the sanctuary, implementing pollution control measures, establishing a comprehensive monitoring program, providing opportunities for public participation, and identifying funding to implement the program. The WQPP carries out its mission through monitoring, corrective actions, research, special studies, education, and outreach.

WQPP Accomplishments

The WQPP brings together government agencies, state and local organizations, academic institutions, and community members in protecting water quality within the FKNMS. The framework of the WQPP allows the group to identify water quality concerns, investigate and research these concerns through monitoring and special studies, and recommend corrective actions to improve water quality. Once the WQPP identifies concerns, the group coordinates and implements long-term monitoring programs, research and special studies, corrective actions and public education and outreach activities to address the issues directly. Accomplishments in these areas are summarized below.

Long-Term Monitoring Programs

The WQPP established and continues to provide input into three comprehensive, long-term monitoring programs designed to track trends in water quality, seagrass, and coral reef communities. The EPA's South Florida Program provides the primary funding for this work. Monitoring data provide critical information about the changing condition of sanctuary resources, informs decision-makers regarding the status and trends of natural resources, and guides corrective actions needed for environmental preservation or restoration. The WQPP website provides access to the data and reports from WQPP monitoring studies.

Additional results are available in Appendix 2.

Research and Special Studies

The EPA South Florida Program provides competitive grants designed to address the immediate and emerging ecological pressures and threats to south Florida waters, particularly threats central to south Florida's economic and ecological well-being. Special studies funded by the EPA South Florida Program are short in duration (1-3 years) and designed to answer targeted questions to further the understanding of issues and factors influencing water quality in south Florida. Between fiscal years 2018-2023, the EPA funded fifty-five special studies, totaling $19.5 million. Each year, the WQPP recommends priority topic areas for funding in alignment with the appropriations language provided by Congress. Awarded projects have focused on water quality monitoring and modeling, aquatic habitat monitoring and restoration, coral health, community-based protection projects, water quality management and nature-based infrastructure. A dashboard of funded projects is available through the EPA South Florida Program website. Additional results are available through Steering Committee meetings, publications and the WQPP website.

Corrective Actions

The WQPP has focused on recommending corrective actions to our partners that are designed to improve nearshore waters within the sanctuary by reducing nutrient inputs from land-based sources. Corrective actions can include implementing pollution control measures, restricting various activities, and modifying regulations such as water quality standards. During this reporting period, corrective actions coordinated through the WQPP have been executed at local, state, and federal levels.

Appendix 3 provides details on implemented corrective actions.

Public Education and Outreach Activities

The success of the WQPP relies on enhancing awareness and providing opportunities for public participation. As such, the WQPP and its partners have supported education, outreach, and communication efforts to disseminate information about threats to water quality and other sanctuary resources, helping individuals and communities identify opportunities to protect water quality and highlight the ongoing work of the WQPP.

The WQPP Steering Committee includes seats for knowledgeable local citizens and all meetings are open to the public with opportunities for public comment. Beginning in 2020, the WQPP has offered Steering Committee meetings virtually or as hybrid meetings with opportunities for virtual and in-person participation. The virtual options increase accessibility and have allowed greater participation in WQPP activities.

In 2023, in response to the recognized need to communicate issues and receive public feedback, the WQPP Steering Committee instituted a sub-group focused on communications.

Appendix 4 provides details on the education projects funded.

WQPP Programmatic Modifications

The WQPP made the following programmatic modifications during the current reporting period from 2014-2024.

- Updated Steering Committee bylaws to clarify processes and improve implementation of the program.
- Expanded membership of the Steering Committee to include representatives from all local governments in the Florida Keys and a new “knowledgeable” citizen seat.
- Increased meeting frequency from 2 to 3 meetings annually to improve Steering Committee engagement in emerging science and opportunities to protect and improve water quality in the Florida Keys.
- Established two new subcommittees to assist in expediting and carrying out the responsibilities of the WQPP: the Ecosystem Connectivity Team investigates and provides guidance on regional activities that may impact water quality in the sanctuary, and the Communications Subcommittee improves external communications about water quality issues, the WQPP, and ongoing efforts to improve water quality in the Florida Keys.

Recommendations and Future Program Implementation

The WQPP is committed to continuing to address sources of pollution that affect FKNMS and identifying new opportunities to achieve meaningful water quality improvements.

In September 2019, recognizing continued water quality challenges and the critical importance of high-quality waters for the human, ecological, and economic well-being of the Florida Keys, the Steering Committee initiated a process to update the program's priorities. The WQPP adopted revised priorities in September 2020 including strategies to address eight water quality issue areas, organized into two broad themes: external water quality influences and local water quality issues. The new priorities also identified core strategies for promoting the long-term functioning and success of the program (Fig. 1). Since their adoption, the WQPP priorities have informed program implementation, including special studies funding under the EPA South Florida Program, and have guided activities carried out by the WQPP partners within their authorities. The complete list of WQPP priorities is available in Appendix 1. For additional information regarding their development, see the 2020 WQPP Priorities Recommendation Document.

Theme	Priority
External Water Quality Influences	South Florida Regional Influences
	Tidal Flooding and Rising Nearshore Waters
Local Water Quality Issues	Stormwater
	Wastewater
	Canal Restoration
	Sargassum and Organic Debris
	Marinas and Liveaboards
	Emerging Pollutants of Concern
WQPP Core Responsibilities	WQPP Administration
	Data Collection, Analysis and Reporting
	Education and Outreach

Figure 1: Updated WQPP priorities adopted in 2020.

Consistent with the WQPP's 2020 priorities and ongoing partner efforts, the WQPP and its partners have identified the following six actions.

1. Support Regional Efforts to Restore Natural Habitats to Protect Water Quality

In addition to locally focused efforts, the WQPP continues to seek opportunities to engage in regional initiatives that aim to restore natural habitats and water quality within FKNMS. These include investigating patterns of connectivity and engaging in South Florida Ecosystem Restoration efforts in the Everglades and Florida's Coral Reef.

2. Align Coastal Resilience and Adaptation Efforts with Water Quality Improvements

Communities are focusing on improving their local adaptive capacity and resiliency to flood and storm events. This focus aligns with the WQPP interest in enhancing the efficacy of coastal adaptation projects by emphasizing nature-based solutions (e.g., mangrove and coral reef barriers) and incorporating water quality treatment technologies. These proactive approaches provide improved protection for surface waters while reducing long-term planning, construction, and operations and maintenance costs.

3. Improve Infrastructure for Stormwater Treatment

Keys communities have not addressed stormwater as comprehensively as wastewater. Stormwater management presents unique challenges in the Florida Keys where limited elevation and land area preclude many conventional treatment methods. The WQPP is committed to pursuing innovative approaches to address this water quality threat. The Florida Keys Reasonable Assurance Document (FKRAD) has identified the following stormwater management practices:

- Retrofit existing drainage systems with stormwater treatment before discharging to near-shore waters.
- Incorporate treatment components into new transportation projects.

4. Continue to Improve Wastewater Infrastructure and Treatment Methodologies

While Florida Keys communities have made wastewater improvements, WQPP data show additional attention is needed to demonstrate the effectiveness of the existing infrastructure and investigate establishing more protective treatment standards. The WQPP continues to support research on shallow injection wells and their functionality in the Florida Keys. The Steering Committee has also begun to explore additional treatment beyond advanced wastewater treatment (AWT), including direct potable wastewater reuse, to enhance protection of marine ecosystems while also providing freshwater for other uses.

5. Apply Research and Monitoring Data to Inform Decision-Making

The WQPP directs science and special studies projects to inform decision-making. This supports robust status and trends monitoring programs and evaluation of them to ensure they are meeting priority needs. Consistent with regional water quality goals, the WQPP supports integration of water quality data into a Unified Monitoring Framework for Florida's Coral Reef to support large-scale restoration and water quality improvement objectives and inform adaptive management.

6. Facilitate Partner Efforts to Advance Water Quality Priorities

Resolving the complex and cross-jurisdictional water quality challenges in the Florida Keys requires leadership and engagement by many partners. A key role of the WQPP is to convene various constituents and organizations, foster a common understanding of water quality issues, and support consensus on the necessary strategies to achieve water quality improvements. Implementation of these strategies relies on the authorities, personnel, and investments of the WQPP partners. The Program and its members seek to support these efforts and highlight opportunities to align them with WQPP priorities. Examples of these partner-led efforts include:

- **Canal Restoration:** canal restoration efforts led by Monroe County, Islamorada, Village of Islands, and the City of Marathon.

- **Florida Keys Water Quality Improvement Program:** In 2022, the Water Resources Development Act (WRDA) authorized an additional $100 million for the Florida Keys Water Quality Improvement Program. The USACE provides technical assistance and reimburses the local government partners for costs associated with the planning, design, and construction of projects to improve water quality in the FKNMS. The WQPP supports these efforts to equitably implement local water quality improvements among the local municipalities.
- **City of Key West Water Quality Improvement Plan:** The City of Key West is developing and implementing a Water Quality Improvement Plan. Initiated in 2022 as part of the city's strategic planning process, this plan is an effort to fill data gaps, implement corrective actions, and improve water quality within the city's jurisdiction utilizing their personnel, funding, and authorities.

Conclusion

In the 35 years since Congress established the Florida Keys National Marine Sanctuary and the Water Quality Protection Program, the investments made have led to progress in preserving and restoring the FKNMS; however, even as the program has made progress, ongoing environmental pressures, including from development and hurricanes, have complicated project implementation and progress. As the FKNMS continues to change, approaches to water quality protection and natural resource management must adapt alongside. The communities of the Florida Keys and Water Quality Protection Program partners are continuing to work toward the protection and restoration of water quality in the sanctuary.

For more information on the Water Quality Protection Program, please visit the WQPP Website or contact the WQPP at WQPP@FloridaDEP.gov.

Appendix 1: WQPP Highest Ranked, Priority 1, Activity Recommendations

To view the full list of WQPP strategy recommendations and information on the development of this table, please refer to the 2020 WQPP Priorities Recommendation Document.

Issue Area	WQPP Strategy	Type of Activity
Emerging Pollutants of Concern	Research emerging pollutants of concern to determine the magnitude of the problem posed by endocrine disruptors and other emerging pollutants.	Research/ Special Studies
WQPP Administration	Ensure adequate staffing and support to effectively manage and advance the Water Quality Protection Program, consistent with the Florida Keys National Marine Sanctuary and Protection Act.	Other - WQPP
Local Stormwater	Design and build more effective stormwater projects, to include stricter stormwater management and project permitting.	Corrective Action
Local Stormwater	Support planning, development and implementation of the Monroe County Stormwater Master Plan. Develop best management practices for stormwater within Monroe County, including a consideration of better solutions to treat stormwater runoff in the Keys' environment. In addition to treatment options, prevention of stormwater via a reduction in impervious surfaces should also be considered.	Corrective Action
Local Wastewater	Research/monitor shallow injection wells to determine their impact on nearshore water quality. Test wastewater or other injectate for pollutants other than nutrients, including endocrine disruptors and other emerging pollutants of concern, salinity, viruses/bacteria, etc. Determine if injected effluent appears in the coastal waters and if so, identify where, what pollutants it still contains, and whether it causes local water quality degradation.	Research/ Special Studies

Issue Area	WQPP Strategy	Type of Activity
Local Wastewater	Pending the results of the shallow injection well studies, consider pursuing additional corrective actions such as (a) the development of water quality standards or aquatic life criteria for endocrine disruptors or other contaminants of emerging concern, (b) investigating and/or implementing new wastewater treatment technologies to remove those contaminants, and (c) reducing the wastewater treatment plant capacity threshold for requiring deep well injection within the Keys and areas with similar porous geology (e.g., require deep injection wells, cased to a minimum depth of 2,100 feet, even if the design capacity of the wastewater treatment plant is less than 1 million gallons per day).	Corrective Action
Monitoring/ Research Activities	Design a monitoring program to detect the effectiveness of corrective actions in improving water quality. While this may need to be project-specific, more general tools such as modeling or remote sensing could be developed to evaluate management actions.	Monitoring
Monitoring/ Research Activities	Set up a Critical Monitoring Workshop to evaluate the existing water quality monitoring program, and recommend changes to answer priority questions or better inform management needs. This will require (a) an articulation of key management questions, (b) an evaluation as to whether those management needs can be fulfilled via mining existing data, a special study or region-wide monitoring, and (c) recommendations from the WQPP Technical Advisory Committee on the design of special studies or changes to the region-wide monitoring program to effectively answer management questions.	Monitoring
Monitoring/ Research Activities	Conduct alternative analyses or “mining” of the existing suite of water quality data to determine if water quality improvements, hotspot areas, or specific sources contributing to water quality degradation can be determined. Consider also incorporating other monitoring tools, such as satellite imagery, to provide additional information about regional trends.	Research/ Special Studies

Issue Area	WQPP Strategy	Type of Activity
Tidal Flooding	Ensure wastewater and stormwater infrastructure is equipped to accommodate changing conditions associated with sea level rise and higher-intensity storms. Assess the ability of existing permitting requirements and facility designs to protect water quality, infrastructure and habitat under various tidal height scenarios, and consider alternative design criteria for different types of facilities, levels of use, and/or areas. Identify and incorporate features to promote resilience, such as stormwater retention basins.	Corrective Action

Appendix 2: Water Quality Project Details

Water Quality Monitoring Program

Data collected by: Florida International University (FIU)
Funding provided by: The EPA South Florida Program

For almost 30 years, over 100 stations throughout FKNMS have monitored water quality on a quarterly schedule, providing resource managers with information on long-term trends on nutrients, dissolved oxygen, chlorophyll-*a* and other parameters used to measure the condition of sanctuary waters. The State of Florida and the federal government have used these data to develop tools and policies in support of numeric nutrient criteria as well as launch protective measures when large impacts are noted. Numeric nutrient criteria identify levels of nitrogen and phosphorus in surface waters that are protective of designated uses, specifying magnitude, duration, and frequency. Establishing numeric values can facilitate additional actions to control nutrients, such as updating assessment lists, calculating maximum pollution loads, and establishing protective concentrations for permits.

Monitoring data show mixed water quality trends over time. Significant trends summarized in Table 1.

Water Quality Monitoring Data Trends Summary (1995 – 2023)

Parameter	Impact	Water Quality Trend
Chlorophyll-*a*	Measure of phytoplankton biomass	Worsening
Total Phosphorus	Limiting nutrient for phytoplankton	Worsening (see Fig. 2)
Dissolved Inorganic and Organic Nitrogen	Fuel phytoplankton growth and eutrophication	Improving
Turbidity and Total Organic Carbon	Affect light availability in the water column and sediment	Improving (see Fig. 3)
Dissolved Oxygen	Indicator of eutrophication	Improving

Table 1: Significant Water Quality trends from data collected by FIU from 1995 - 2023.

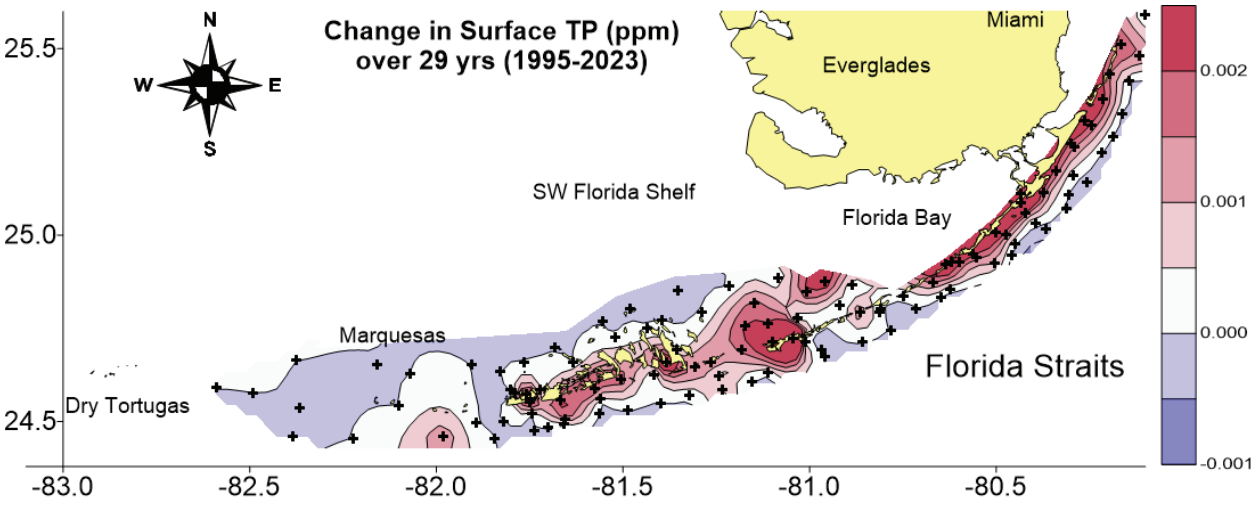


Figure 2. Total change in surface total phosphorus over the 29-year period.

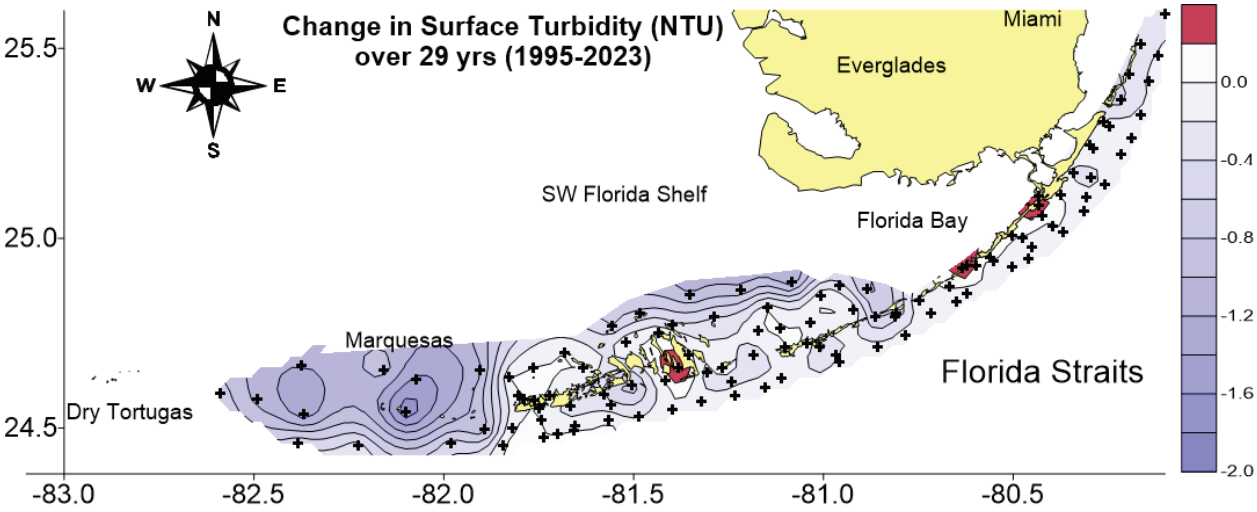


Figure 3. Total change in surface turbidity over the 29-year period.

The time scale of this monitoring program provides a holistic view of the physical, chemical, and biological interactions occurring across south Florida waters. These results reaffirm that ongoing monitoring is a critical tool for addressing management questions and for developing new approaches to restoration and preservation. Data is publicly available through FIU's SERC Water Quality Monitoring Network, the FDEP Watershed Information Network, and the EPA's Water Quality Portal.

Seagrass Monitoring Program

Data collected by: Florida International University
Funding provided by: The EPA South Florida Program

Monitoring data have identified areas of both stability and areas of change. For seagrass monitoring, 40 fixed, permanent sites are monitored twice a year. Florida International University (FIU) coordinates sampling with the FKNMS Water Quality Monitoring Program, allowing for analysis of relationships between water quality and seagrass status data. For example, native turtle grass (*Thalassia testudinum*) represents the desired seagrass community - indicating a healthy ecosystem. The long-term data collected to date has supported development of ecosystem models linking water quality to seagrass growth. Many ecosystem services, such as shoreline protection and habitat provision for commercially valuable fish and shellfish, are greater in turtle grass compared to other seagrasses and algae. Clear water with low nutrient conditions, high-quality waters, are required for the growth of turtle grass.

In contrast, high nutrient, lower-quality conditions result in the loss of turtle grass, favoring algae and more nutrient-adapted seagrasses like shoal grass (*Halodule wrightii*). These lower-quality conditions ultimately lead to microalgae blooms that remove dissolved oxygen, resulting in fish kills and harmful human health effects.

While most sites remained stable over the monitoring period, some were heavily affected by hurricanes (see Fig. 4). None of the permanent monitoring sites impacted by hurricane-induced erosion showed a full recovery of seagrasses over the 30-year period of this study, highlighting that hurricane frequency is an important factor, alongside water quality, in determining seagrass habitat status in the Florida Keys.

Increases in phosphorus can create favorable conditions for algae and shoal grass, which have replaced turtle grass as the dominant seagrass at monitoring sites in the upper, middle, and lower Keys (Fig. 5) and are an indicator of human-derived impacts.

WQPP funded projects show that because phosphorus is efficiently retained and recycled by south Florida's seagrass systems, the impact of high phosphorus can shape habitats long after sources of excess nutrients are remedied. The data and models generated by the seagrass monitoring program strongly influenced the decision to install sewage collection and centralized wastewater treatment and disposal in the Florida Keys to reduce the impact of nutrients on nearshore waters. The presence of old, previously used septic tanks is an example of such a source.

Data is publicly available through the FIU Seagrass Ecosystem Research Lab.

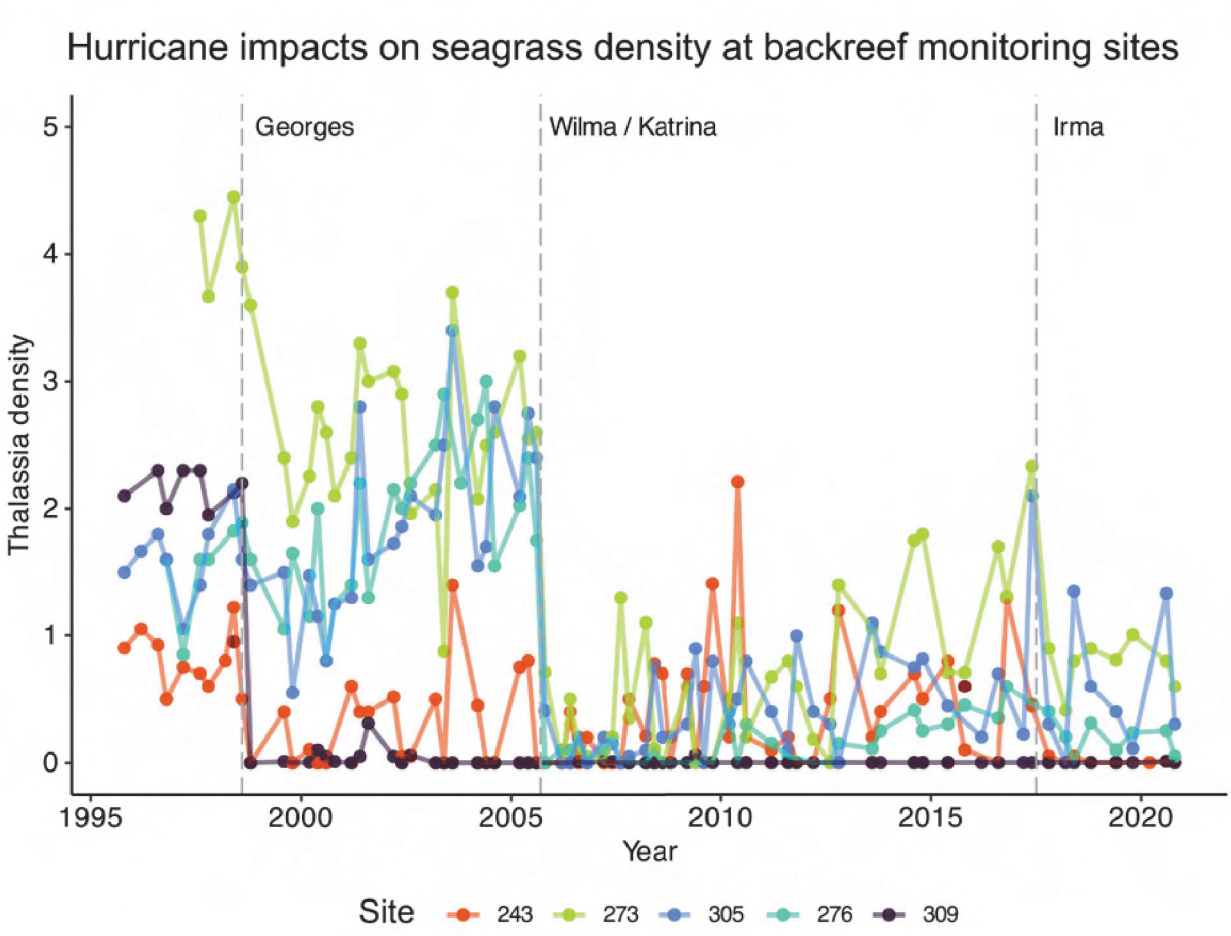


Figure 4. Timeseries of turtle grass (Thalassia) density at seven monitoring sites that lost seagrass over the monitoring period. Vertical dashed lines indicate the occurrence of major hurricanes that impacted the Florida Keys in 1998 (Georges), 2005 (Wilma, Katrina), and 2017 (Irma).

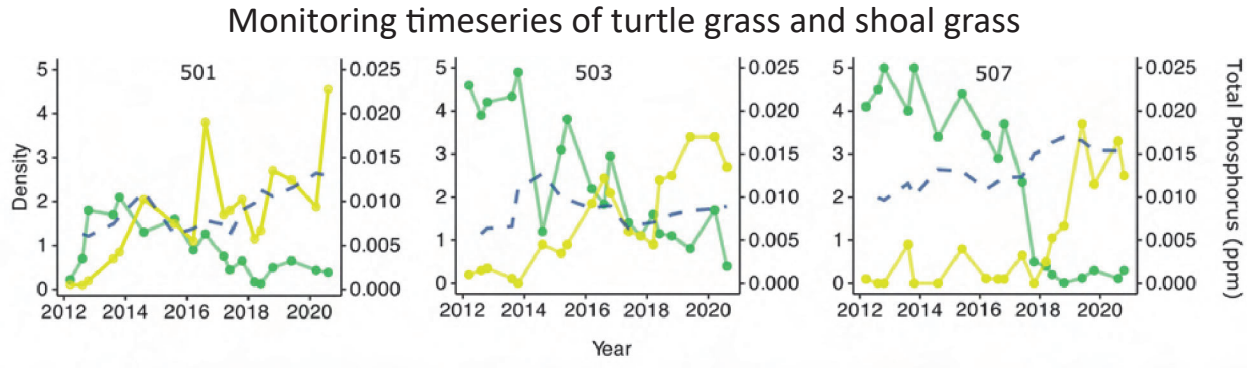


Figure 5. Monitoring timeseries of turtle grass (green) and shoal grass (yellow) densities at nearshore monitoring sites in the upper (501), middle (503), and lower (507) Keys that transitioned to become shoal grass dominated. Blue, dashed lines are total phosphorus concentrations (ppm) in water samples.

Coral Reef Evaluation and Monitoring Program

Data collected by: Florida Fish and Wildlife Conservation Commission
Funding provided by: The EPA South Florida Program

The Coral Reef Evaluation and Monitoring Program (CREMP) tracks changes in coral reef and hard bottom habitats at 40 reef sites over time. This effort provides information on the status and trends of these habitats, including coral cover, coral abundance, species richness, and bleaching and disease prevalence. Research findings provide essential information for resource managers involved in making management decisions that will guide coral restoration and promote resilience.

Since 2013, four major disturbances have severely impacted Florida's Coral Reef:

- In 2014-2015 mass bleaching and prolonged elevated daily seawater temperatures were recorded. These were the highest seawater temperatures observed in the area since 1997-1998.
- In 2017, Category 4 Hurricane Irma made landfall at Cudjoe Key in the Lower Florida Keys. Hurricane Irma was the most powerful storm to directly strike the Florida Keys since Hurricane Donna in 1960.
- Stony Coral Tissue Loss Disease (SCTLD) is the most catastrophic disease outbreak ever recorded along Florida's Coral Reef causing losses of up to 90 percent in some reef-building coral species. First reported on southeast Florida reefs in 2014, it spread through the Florida Keys and into the Dry Tortugas, where it is now endemic.
- In 2023, mass coral bleaching was reported, occurring for the second time in a decade. Seawater temperatures higher than those reported in 2014-2015 surpassed the threshold for coral survival and many hard and soft corals died directly from heat shock.

Together, these disturbances, in addition to diseases and direct impacts, greatly reduced coral cover between 2013 and 2023. Across all 40 CREMP monitoring sites, coral cover decreased from 8.5 percent in 2013 to 6.0 percent in 2023, representing a 30 percent decline in coral cover in only ten years (Fig. 6 and 7). The full extent of the losses from the 2023 mass bleaching is still being evaluated. Some stony coral species lost nearly 90 percent of their abundance as SCTLD progressed through the Florida Keys from 2016-2021, killing many of the largest and oldest reef-building corals that provided the structure required to mitigate future storm damage.

CREMP monitoring data allow the WQPP to understand and measure coral reef status and evaluate restoration success. CREMP has adapted its sampling design to focus on the causes of coral reef decline and to understand how reef communities are changing. Information provided by CREMP has improved techniques, locations, and timing of coral restoration, and increased the survival of corals planted on the reef after being reared in land-based nurseries.

Data is publicly available through the Coral Reef Evaluation and Monitoring Project site.

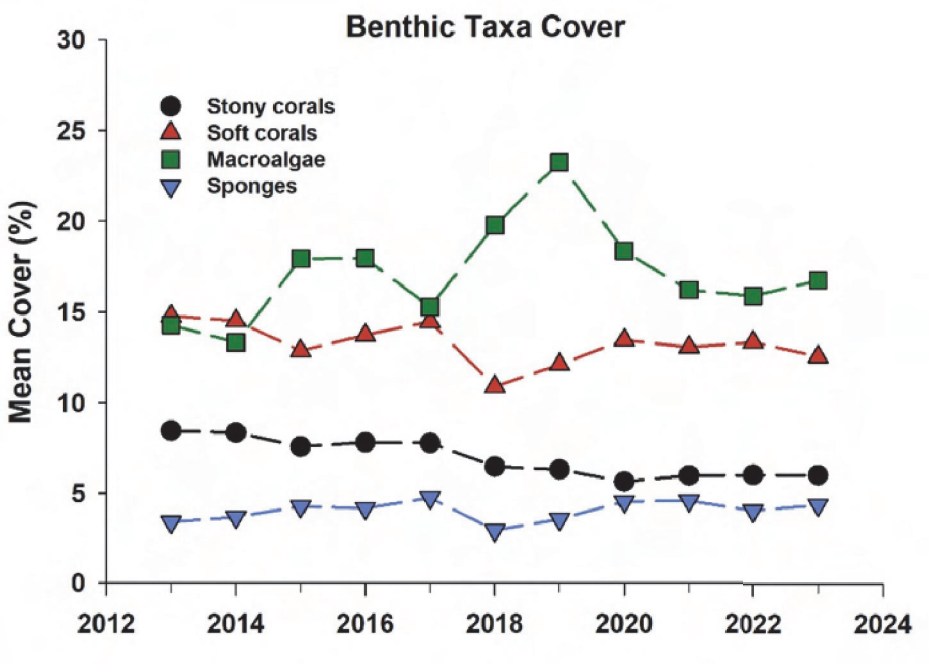


Figure 6. Mean percent cover (percent ± SE) four primary benthic taxa groups (corals, soft corals, macroalgae, sponges) at 40 CREMP sites between 2013 and 2023. All sites have four monitoring stations.

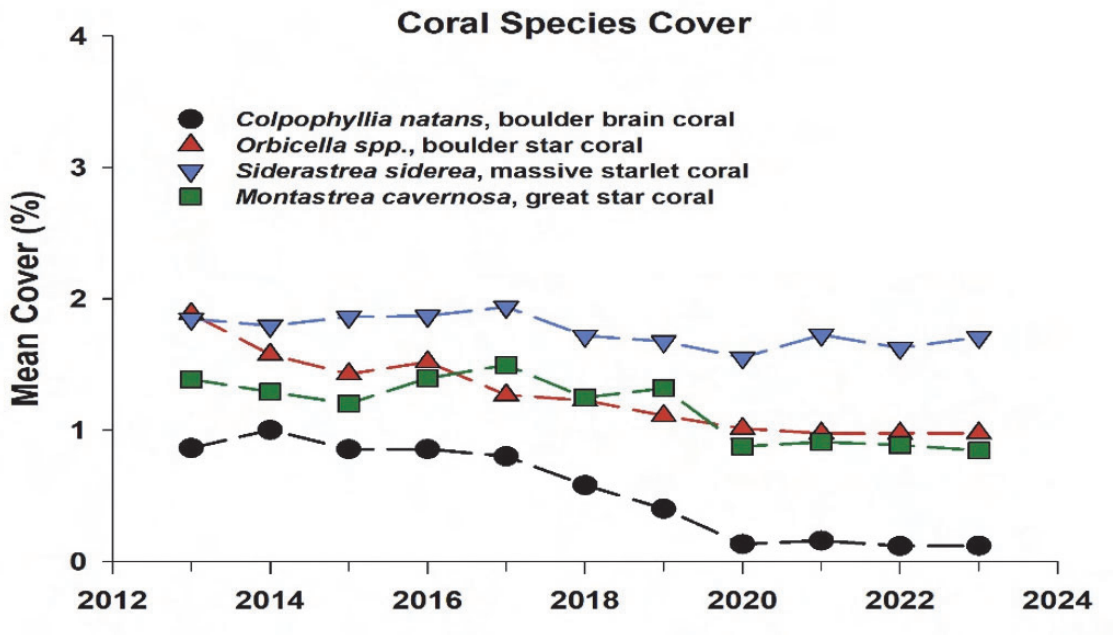


Figure 7. Mean percent cover (percent ± SE) of four major framework building coral species between 2013 and 2023

Appendix 3: Corrective Actions

Canal Water Quality Improvements

Improvements led by: The WQPP Canal Restoration Advisory Subcommittee, Monroe County, and local municipalities
Funding provided by: FDEP State Stewardship, RESTORE, Monroe County, City of Marathon, Islamorada, Village of Islands, and the EPA South Florida Program

In 2013, more than half of the 502 residential canals in the Florida Keys were determined by the WQPP to have poor water quality with levels of dissolved oxygen (DO) in those canals not meeting state water quality standards. Water quality concerns include nutrient and bacterial loading from insufficient stormwater treatment, wastewater inputs, a lack of tidal flushing, and accumulation of organic material. The WQPP has supported efforts to restore water quality in degraded canals, including establishing a Canal Restoration Advisory Subcommittee, supporting development of the Monroe County Canal Management Master Plan, completing a series of canal restoration demonstration projects to test canal remediation techniques, and drafting a canal restoration guidance document to address knowledge gained through these pilot projects.



Figure 8: Example of canal water quality conditions pre-construction.

To determine the effect of restoration technologies on meeting State of Florida water quality standards, Florida International University (FIU) developed a water quality monitoring program that compared water quality data from demonstration canals with similar canals that were not included in the restoration program. FIU's study concluded that canals that received backfilling and culvert treatment technologies showed improved dissolved oxygen saturation after remediation.[8] These canals immediately responded to restoration, not only in oxygen concentration, but also with the arrival of wildlife that was previously absent in the remediated canals.

The FIU study showed that no single restoration technology addresses all water quality issues which may exist in a residential canal. It also noted that poor water quality is most often a function of depth. However, two technologies demonstrated the greatest ability to improve DO: backfilling projects, which reduced the depth of canals and the installation of culverts, which allowed improved flushing of water and accumulated sediment. Both technologies reduced the amount of time water remained in the canal.

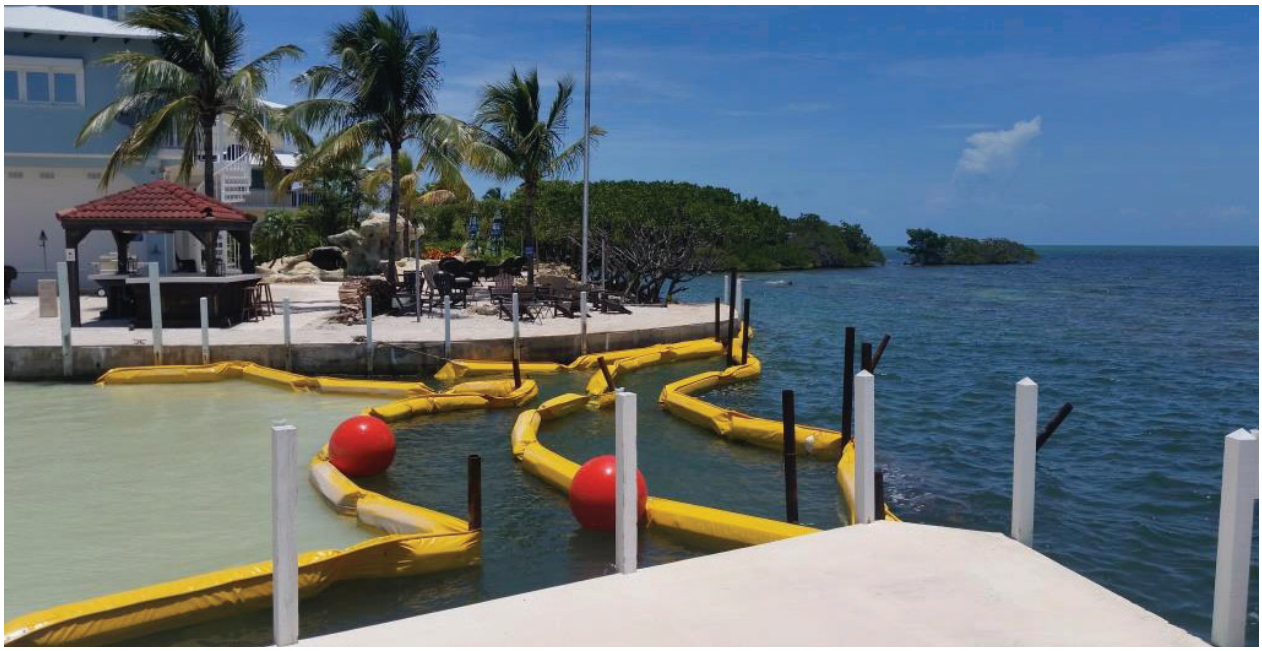


Figure 9: Example of a canal during construction, silt barriers are used to protect waterways while work is taking place.

Following the successful early demonstration phase, the Monroe County Canal Water Quality Restoration Program continues to evaluate, construct, and implement restoration technologies to improve water quality in residential canals. Monroe County tested additional canal remediation techniques such as organic material removal, backfilling, culverts, weed gates, and gravity-fed injection wells. These techniques continue to be tested in the field for their ability to improve overall water quality.

In 2020, Monroe County, Islamorada, Village of Islands, and the City of Marathon incorporated the task of canal restoration and water quality standard compliance into the Area of Critical State Concern 10-year work program. Through 2024, 20 of the 231 canals in this area have been restored. The county, City of Marathon, and Islamorada, Village of Islands ranked the 211 remaining canals with fair or poor water quality to prioritize future restoration.



Figure 10: Example of a canal post construction.

Wastewater Improvements

Improvements led by: local municipalities
Funding provided by: U.S. Army Corps of Engineers, Florida Department of Environmental Protection, and Monroe County residents and businesses.

Florida law prohibits the discharge of domestic wastewater into the surface waters of the Keys. However, wastewater contributes significantly to water quality degradation, primarily through nutrient pollution originating from residual cesspits, ineffective septic systems, and inadequate or outdated wastewater facilities. Monroe County and the Water Quality Steering Committee both identified wastewater management as a critical issue affecting water quality in the Keys. In 1999, Florida required wastewater treatment facilities to meet advanced wastewater treatment (AWT) standards and that communities phase out septic tanks, illegal cesspits, and substandard treatment units. In response, Monroe County developed a comprehensive Wastewater Master Plan, with support from the WQPP, to guide improvement efforts across more than 100 miles and 42 islands within the archipelago.

Monroe County has made substantial progress in wastewater infrastructure development across various municipalities, including:

- **2013:** Key Largo Wastewater Treatment District (KLWTD) expanded the capacity of its AWT plant from 2.3 million gallons per day (MGD) to 3.45 MGD. This expansion enabled KLWTD to accommodate wastewater from neighboring Islamorada, Village of Islands.
- **2013-2018:** The construction of the Cudjoe Regional Wastewater System serves 10 keys across 16 miles, with a capacity of about 0.95 MGD. It includes a deep disposal well and a transmission system to treatment facilities on Cudjoe Key.
- **2014:** Islamorada, Village of Islands completed the construction of a force main, initiating the transfer of wastewater to KLWTD for treatment. Concurrently, KLWTD extended its collection system through the installation of grinder pump systems, achieving connectivity to over 99 percent of properties within its service area.
- **2016-2018:** The City of Layton expanded its wastewater system on Long Key, incorporating 100 additional parcels. Monroe County partnered with the Florida Keys Aqueduct Authority (FKAA) to extend wastewater services to unincorporated areas south of mile marker 87.
- **2020:** The City of Marathon applied to expand its Area 3 wastewater treatment plant to accommodate commercial growth. Additionally, Marathon began exploring beneficial alternatives for effluent disposal including wastewater disposal through deep injection wells, development of reclaimed (non-drinking water) water systems, and indirect and direct potable (drinking water) reuse projects.
- **2021-2024:** The EPA South Florida Program awarded funds to Pennsylvania State University to research the fate of treated wastewater effluent after shallow (<90') injection into limestone bedrock in the Florida Keys. This project monitored concentrations of nutrients, dissolved ions, and man-made compounds in groundwater and nearshore waters over two years. The research found that effluent rises to the shallow subsurface near the injection well and migrates to the coastline, but that subsurface geochemical and microbial processes help to reduce nutrient loadings.[9] [10]

Wastewater improvement efforts continue throughout the island chain, focusing on completing connections, ensuring treatment to AWT standards, and enhancing infrastructure resilience. These efforts underscored a commitment to sustainable wastewater management practices and environmental conservation. As of 2023, most of the Keys are connected to advanced wastewater treatment plants or best available technology systems. Costs for making these connections totaled about $1 billion across 12 major service areas, not including additional costs for individual hookups by businesses and homeowners. Wastewater connections have increased steadily with population growth and new development, but full connection across the Keys remains a moving target as new construction, demolition following hurricanes, and other factors continue to arise.

The KLWTD now provides collection system and advanced wastewater treatment for both the KLWTD and (via interlocal agreement) Islamorada, Village of Islands, treating approximately 20,000 total Equivalent Dwelling Units (EDUs).

Partner investments have also contributed significantly to the reduction in nutrients and pollutants from wastewater and stormwater infrastructure projects. The U.S. Army Corps of Engineers (USACE) has invested approximately $27 million on projects as described below.

Collection System Infrastructure Project – total USACE reimbursement $20,956,803

Beginning in 2005, KLWTD began designing the collection system and its 7 Vacuum (vac) Stations. In 2008, KLWTD began installing pipe in North Key Largo. By 2011, KLWTD had connected the collection system through the end of its service area in Tavernier (Fig. 11 - 14).



Figure 11: KLWTD pipe installation



Figure 12: KLWTD collection system infrastructure



Figure 13: KLWTD collection system infrastructure installation.



Figure 14: KLWTD collection system vac station

Vacuum Collection System Monitoring Project – total USACE reimbursement $4,720,941

Vacuum collection system monitoring reduces the number of backups and overflows that occur when a component of the vacuum collection system malfunctions. It efficiently identifies collection system issues and optimizes performance thereby increasing the collection system's reliability (Fig 15 and 16).



Figure 15: Vacuum collection monitoring system installation.



Figure 16: Vacuum collection monitoring system installation.

Vacuum Pump Stations Upgrade Project – total USACE reimbursement $1,600,389

A mobile emergency vacuum trailer intended to be deployed to a vacuum station in the event of catastrophic failure of the system. The project also includes upgrades to Vacuum Stations to adapt existing pipe/valve manifolds to the new connections (Fig. 17 and 18).



Figure 17: A mobile emergency vacuum trailer



Figure 18: A mobile emergency vacuum trailer

Stormwater Improvements

Improvements led by: Monroe County and local municipalities
Funding provided by: Monroe County and local municipalities

Stormwater runoff washes excess nutrients, sediment and pollutants from roadways, bridges, residential and commercial landscapes and parking lots into near-shore surface waters. The many sources and limited land available in the Florida Keys for traditional treatment methods make it challenging to manage. Municipalities have not managed stormwater as comprehensively as wastewater, but progress continues. The WQPP supported the development of the 2001 Monroe County Stormwater Management Master Plan, which has led to stormwater system upgrades, including retrofitting stormwater drainage systems with treatment technologies, trash grates, roadway drainage improvements and reducing or eliminating direct discharges to nearshore waters.

Monroe County is developing a long-term sustainability and sea-level rise adaptation plan that includes road elevation and stormwater drainage features. The WQPP will support plan development by providing guidance and recommendations on opportunities to include retrofits that improve water quality in accordance with all existing laws in conjunction with local, state, and federal authorities.



Figure 19: Miami curbing installation in Venetian Shores Phase 1 Stormwater Project

Islamorada, Village of Islands completed construction of the Venetian Shores Phase 1 Stormwater Project in 2020 at a cost of $1.7 million. This project was designed to minimize stormwater or tidal water pooling in the streets while simultaneously improving water quality and reducing the amount of discharge to nearshore waters of Florida Bay and the Atlantic Ocean. The system treats stormwater before discharging for reduced nearshore impacts.



Figure 20: Miami curbing installation in Venetian Shores Phase 1

The City of Key West operates and maintains a Municipal Separate Storm Sewer System (MS4) and implements a Stormwater Management Program in compliance with a Phase II MS4 Generic Permit. Since 2013, the City of Key West has installed 160 trash grates on downtown stormwater drains, significantly reducing debris entering the stormwater system, and reducing debris that reaches surface water through the stormwater system.

Florida Keys Reasonable Assurance Document

Improvements led by: Florida Department of Environmental Protection

FDEP adopted the Florida Keys Reasonable Assurance Document (FKRAD) in 2008. This document identifies strategies to restore and protect water quality in the Florida Keys. Recent changes in water quality, identified through monitoring data gathered by FDEP and the WQPP, led FDEP to adopt an update in 2022 to the FKRAD. FDEP developed the update in coordination with stakeholders, including local, regional, and state government, elected officials, citizens, and private interests. The revised document updates the status of management activities including the attainment of total nitrogen and total phosphorus targets, and dissolved oxygen impairments. Since 2011, FDEP and their partners have completed 118 water quality restoration projects. The FDEP adjusted projects and management strategies and its work with stakeholders, including interaction with the WQPP, to reduce nutrient loadings and achieve water quality standards within nearshore waters of the Florida Keys.

Water Quality Standards for the Florida Keys

Improvements led by: Florida Department of Environmental Protection

In 2012, FDEP implemented Numeric Nutrient Criteria (NNC) in state waters surrounding the Keys to help maintain water quality. Data collected by the WQPP Water Quality Monitoring Program show conditions differ across the FKNMS, leading to the development of different sets of criteria specific to seven biogeochemically distinct water bodies within the Keys. The NNC includes standards for total nitrogen, total phosphorus and chlorophyll-*a* and provides a regulatory benchmark for maintaining the quality of waters 500 meters or greater from the coastline. The FDEP did not establish specific NNC for the nearshore waters where stormwater runoff is highest; however, the targets are enforceable through the FKRAD. Nearshore waters are currently being evaluated for future adaptation of criteria.

Mobile Vessel Sewage Pump-Out Service

Improvements led by: Florida Department of Environmental Protection, Monroe County and Key Largo Wastewater Treatment District

Monroe County partnered with the FDEP Clean Vessel Act Program from 2013 through 2020 to provide free mobile pump-out service to vessels anchored in waters between Key West and Key Largo. This service facilitated vessel compliance with the federal No Discharge Zone and Monroe County Proof of Pump-Out ordinance. The county and FDEP suspended this Keys-wide program from June 2020 until November 2021, temporarily replacing it with regional services. In December 2021, FDEP assumed management of the service. Between 2013 and 2023, this free pump-out service collected over 2.6 million gallons of sewage that could otherwise have been discharged into nearshore waters. More information is available at Monroe County Vessel Pump-Out Services.

In 2024, the Key Largo Wastewater Treatment District established the Vessel Sanitary Wastewater Program to provide commercial and non-commercial boating facilities with sanitary wastewater pump-out services for vessels in marinas and community docks. Program information is available at KLWTD website.

Appendix 4: Education Project Details

Florida Keys National Marine Sanctuary Boater Education Course

Effort led by: Indiana University Eppley Institute for Parks and Public Lands, the National Oceanic and Atmospheric Administration/FKNMS, and the National Parks Conservation Association.
Funded by: The EPA South Florida Program

The presence of shallow water, coral, and seagrass beds, as well as the frequent movement of sand make boating in the Florida Keys complex. Boater ignorance and negligence can lead to significant environmental impacts. For example, vessels running aground can damage seagrass and coral habitat that can take decades to recover. To help address these challenges, in 2018, the WQPP supported the development of an online Boater Education Course to teach boaters how to reduce vessel impacts to water quality and seagrass and coral communities in FKNMS. Indiana University's Eppley Institute developed and launched the online course in both English and Spanish in spring 2019. Costs for the initial development and hosting of the website totaled $109,394 through 2019. The current cost to maintain the English version of the course is $10,358 annually. Due to funding constraints, the Spanish course was discontinued as of January 2025. By February 2025, over 6,100 individuals had enrolled in or completed the course. Evaluation responses indicate that the FKNMS Boater Education Course had a significant positive impact on participants knowledge of the topic.

Florida Keys Water Watch

Led by: University of Florida Institute of Food and Agricultural Sciences (UF/IFAS) Extension, Monroe County and Florida Sea Grant
Funds provided by: The EPA South Florida Program

The Florida Keys Water Watch citizen science water quality monitoring program has trained more than 415 residents, 11 Extension agents, 158 STEM teachers, and 900 students to collect water quality data for dissolved oxygen, salinity, temperature, and turbidity. More than 3,000 individuals have attended public seminars since the program began in 2015 in partnership with the Monroe County Canal Management Master Plan. What began as a county initiative has expanded coastwide into UF/IFAS Water Watch in more than 8 coastal counties with 28 trainers that collectively reach thousands of Floridians, resulting in an estimated $185,000 of in-kind volunteer sampling work since 2018.

Additional Resources

To find out more about the Florida Keys National Marine Sanctuary and the Water Quality Protection Program, visit us on the web at:

Florida Keys National Marine Sanctuary Water Quality Protection Program

Florida Keys National Marine Sanctuary

Southeast Environmental Research Center

EPA South Florida Program

Florida Keys National Marine Sanctuary Water Quality

Monroe Canal Restoration

Monroe County RESTORE Funding

Florida Keys Basin Water Quality Reports

Florida Keys Reasonable Assurance Plans

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1 TBD Economics, 2019. The Economic Contribution of Spending in the Florida Keys National Marine Sanctuary to the Florida Economy. Accessed November 20, 2023, https://marinesanctuary.org/wp-content/uploads/2019/07/FKNMS-Report-Final-072819.pdf

2 Storlazzi, C.D., Reguero, B.G., Cole, A.D., Lowe, E., Shope, J.B., Gibbs, A.E., Nickel, B.A., McCall, R.T., van Dongeren, A.R., and Beck, M.W. 2019. Rigorously valuing the role of U.S. coral reefs in coastal hazard risk reduction: U.S. Geological Survey Open-File Report 2019–1027, 42pp. Accessed on November 18, 2021, https://pubs.usgs.gov/of/2019/1027/ofr20191027.pdf

3 NOAA Fisheries, 2016

4 Gastesi, Roman. 2019. Florida's Coastal Economy: Opportunities and Challenges in the Florida Keys Testimony for the U.S. Senate Committee on Small Business and Entrepreneurship. https://www.sbc.senate.gov/public/_cache/files/e/2/e2c36195-6f1a-42cb-b665-c4c7a33678eb/CEA98CE79469EB1D6732EADB06291874.gastesi-testimony.pdf

5 Florida Sea Grant, 2017

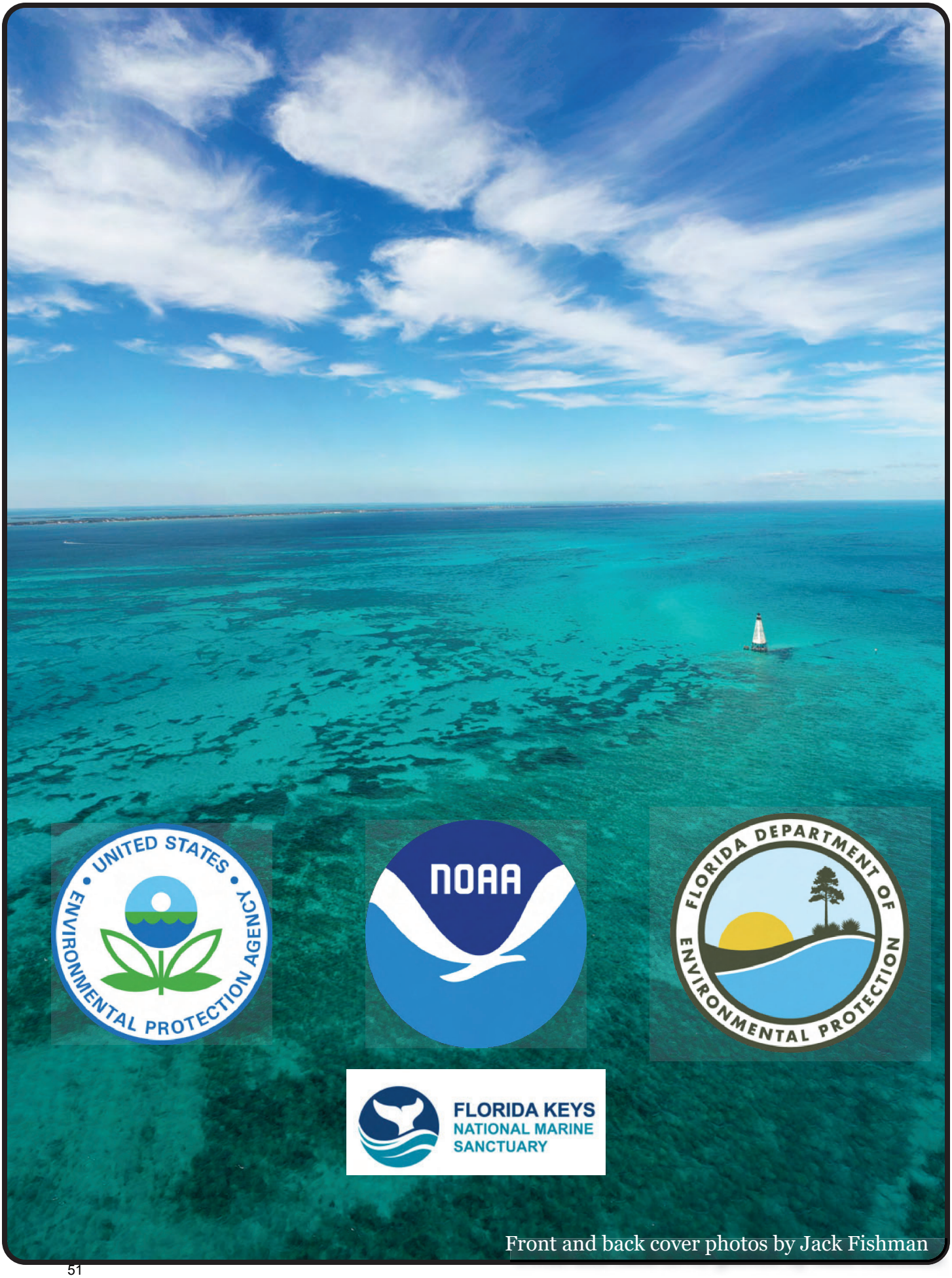
6 Florida Sea Grant, 2017

7 K. Lumpkin, Nathan F. Putman, Ryan H. Smitha, Frank E. Muller-Karger, Digna T. Rueda-Roa, Chuanmin Hu, Mengqiu Wang, Maureen T. Brooks, Lewis J. Gramer, Francisco E. Werner. 2020. The establishment of a pelagic Sargassum population in the tropical Atlantic: Biological consequences of a basin-scale long distance dispersal event. Progress in Oceanography, 182 (2020) 102269.

8 Florida International University. 2018. Water Quality Monitoring Project for Demonstration of Canal Remediation Methods: Florida Keys: Final Report May 2018 Submitted by: Henry O. Briceno Southeast Environmental Research Center Florida International University Miami, Florida.

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Front and back cover photos by Jack Fishman

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

Meeting Date:
November 17, 2026

Agenda Item Number: K-1

Action Required:
No

Department:
Customer Service

Sponsor:
Alex Irizarry

Subject:
Customer Service Report - October 2026

Summary:
Mr. Irizarry will present the Customer Service monthly report.

Reviewed / Approved		Financial Impact	Attachments
Operations:	_____	$	1. Monthly Report
Administration:	_____		
Finance:	_____	Funding Source:	
District Counsel:	_____	N/A	
District Clerk:	_____	Budgeted:	
Engineering:	_____	No	

Approved By: _____ **Date:** 11-12-26
General Manager

Key Largo Wastewater Treatment District
Customer Service Report

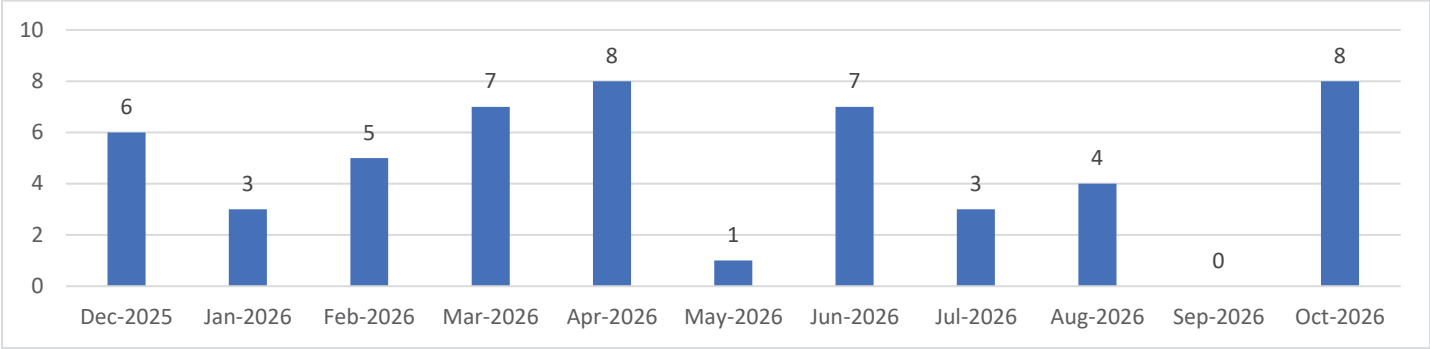
October 2026

The numbers provided are based on customer requests that generated a work order.

Customer Service Requests

	Total
Backup	4
Billing	8
Construction	1
Demo	4
Field Department	10
Locate	1
MOD	12
NOA	13
Tie In Non Res	1
Tie In Res	7
Total	61

Number of Completed Wastewater Connections



Completed Wastewater Connections for 8 Residential Properties:

- 849 Cardinal Ln
- 538 Ocean Cay Dr
- 405 Coconut Dr
- 41 Avenue F
- 18 N End Rd
- 138 S Bay Harbor Dr
- 434 Big Pine Rd
- 133 1st Rd

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

Meeting Date:

November 17, 2026

Agenda Item Number: L-1

Action Required:

No

Department:

Budget and Finance

Sponsor:

Jen Dempsey

Subject:

Budget and Finance Report - October 2026

Summary:

Ms. Dempsey will present the Budget and Finance 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:** 11-12-26
General Manager

October 2026

Budget and Finance Report

Long-Term Debt Summary	
SRF Loan KLNC 46401P	**$4,471,995.86**

Next payment: January 2027: $779,480.33

	Cash Flow	
	Deposits	Expenditures
Wastewater Billing Deposits Received	$763,256.26	
Assessment Revenue Received (Non-Ad Valorem & SDC Prepayments)	$5,320.16	
Islamorada Revenue	$152,915.82	
Interest Income	$114,756.83	
Grant Revenue (includes Stewardship and ACOE reimbursements, if applicable)	$570,778.68	
District Expenditures (checks written)		$1,295,340.82
Payroll		$213,495.84
Total:	**$1,607,027.75**	**$1,508,836.66**

FKAA Wastewater Revenue Statistics

Date	Number of Customers Billed	WW Revenue Received	Date	Number of Customers Billed	WW Revenue Received
November 2024	10,200 (9,322 Residential 878 Commercial)	$521,665.22	**November 2025**	10,210 (9,337 Residential 873 Commercial)	$914,332.89
December 2024	10,204 (9,326 Residential 878 Commercial)	$594,943.07	**December 2025**	10,244 (9,366 Residential 878 Commercial)	$796,569.98
January 2025	10,207 (9,330 Residential 877 Commercial)	$603,109.67	**January 2026**	10,233 (9,356 Residential 877 Commercial)	$536,610.38
February 2025	10,211 (9,337 Residential 874 Commercial)	$631,840.90	**February 2026**	10,236 (9,356 Residential 880Commercial)	$755,978.98
March 2025	10,188 (9,313 Residential 875 Commercial)	$616,286.54	**March 2026**	10,252 (9,371 Residential 881 Commercial)	$693,372.63
April 2025	10,219 (9,342 Residential 877 Commercial)	$681,706.55	**April 2026**	10,265 (9,383 Residential 882 Commercial)	$682,774.77
May 2025	10,227 (9,350 Residential 877 Commercial)	$778,032.51	**May 2026**	10,249 (9,369 Residential 880 Commercial)	$788,441.63
June 2025	10,214 (9,337 Residential 877 Commercial)	$670,479.78	**June 2026**	10,258 (9,379 Residential 879 Commercial)	$652,856.28
July 2025	10,235 (9,361 Residential 874 Commercial)	$639,287.25	**July 2026**	10,280 (9,396 Residential 884 Commercial)	$702,228.72
August 2025	10,235 (9,358 Residential 877 Commercial)	$715,933.48	**August 2026**	10,253 (9,369 Residential 884 Commercial)	$741,449.37
September 2025	10,246 (9,367 Residential 879 Commercial)	$683,411.61	**September 2026**	FKAA Stas Not Available at 11/9/26	$701,838.26
October 2025	10,251 (9,374 Residential 877 Commercial)	$474,913.01	**October 2026**	FKAA Stas Not Available at 11/9/26	$763,256.26
Total Revenue from November 2024 Through October 2025		**$7,611,609.59**	**Total Revenue from November 2025 Through October 2026**		**$8,729,710.15**

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

Meeting Date:

November 17, 2026

Agenda Item Number: L-2

Action Required:

No

Department:

Budget and Finance

Sponsor:

Jen Dempsey

Subject:

FY26 4th Qtr. Financial Reports

Summary:

Ms. Dempsey will present the Financial Reports for the 4th quarter of fiscal year 2026.

Reviewed / Approved		Financial Impact	Attachments
Operations:	_____	$	1. Statement of Net Position/Balance Sheet Report
Administration:	_____		2. Revenue and Expenditure Report
Finance:	_____	Funding Source:	3. Sorted by Expense Description Report.
District Counsel:	_____	N/A	
District Clerk:	_____	Budgeted:	
Engineering:	_____	N/A	

Approved By: _____ **Date:** 11-12-26
General Manager

KLWTD STATEMENT OF NET POSITION / BALANCE SHEET REPORT

Balance As Of 09/30/2026

	GL Number	Description	YTD Balance 09/30/2026
	Fund: 401 GENERAL FUND		
	***** Assets *****		
	Cash		
1	401-0000-101.000.11	First State Bank Acct-3292	5,463,956.22
2	401-0000-101.000.14	Centennial Gen Op 1084	11,388,991.07
3	401-0000-101.000.15	Centennial Payroll 1092	297,770.21
4	401-0000-101.000.16	Centennial Debt Svc 1108	866,106.16
5	401-0000-101.000.17	Centennial R&R 1116	13,768,385.11
6	401-0000-101.000.19	Centennial Self Insurance 8728	5,630,629.13
	Cash		**37,415,837.90**
	Accounts Receivable		
7	401-0000-115.000.01	Accounts Receivable	103,340.47
8	401-0000-131.000.00	Due From Other Governments	2,646,851.38
9	401-0000-131.000.02	Due From Monroe County ILA	285,330.00
	Accounts Receivable		**3,035,521.85**
	Fixed Assets		
10	401-0000-162.900.00	Buildings	4,244,473.55
11	401-0000-166.900.00	Equipment & Furniture	2,095,678.00
12	401-0000-170.900.00	Collection Facilities	118,114,066.20
13	401-0000-170.900.01	Treatment Facilities	47,385,653.71
14	401-0000-170.900.03	Vehicles	695,787.26
15	401-0000-170.950.00	Accumulated Depreciation	(68,080,043.76)
	Fixed Assets		**104,455,614.96**
	Other Assets		
16	401-0000-155.000.00	Prepaid Insurance	22,088.83
17	401-0000-155.000.01	Prepaid Assets	34,215.62
18	401-0000-156.000.00	Deposits	58,295.00
19	401-0000-161.900.00	Land	2,012,494.19
20	401-0000-169.900.00	Construction In Progress	18,789,146.22
	Other Assets		**20,916,239.86**
	Total Assets		**165,823,214.57**

	GL Number	Description	YTD Balance 09/30/2026
	*** Liabilities ***		
	Accounts Payable		
21	401-0000-202.000.00	Accounts Payable	688,684.42
	Accounts Payable		**688,684.42**
	Liabilities-ST		
22	401-0000-205.000.00	Retainage Payable	437,237.18
23	401-0000-215.000.00	Accrued Interest Payable	31,239.10
24	401-0000-216.000.00	Accrued Payroll	79,186.30
25	401-0000-217.000.01	Accrued Taxes Payable	27,898.05
26	401-0000-229.000.02	457(b) Withholding	11,685.10
27	401-0000-229.000.03	Health/Optional/Payroll Withholding	(35,938.20)
28	401-0000-231.000.00	Workers Compensation Insurance	9,547.31
	Liabilities-ST		**560,854.84**
	Liabilities-LT (Over 1 Year)		
29	401-0000-203.900.00	SRF Loan - KLNC 01P	4,471,995.86
	Liabilities-LT (Over 1 Year)		**4,471,995.86**
	Other Liabilities		
30	401-0000-210.900.00	Accrued Compensated Absences	132,313.05
31	401-0000-237.000.00	Other Post Empl Benefit (OPEB) Liability	48,810.00
32	401-0000-237.000.01	Deferred Inflows of Resources-OPEB	54,965.00
	Other Liabilities		**236,088.05**
	Total Liabilities		**5,957,623.17**
	= ENDING FUND BALANCE		**159,865,591.40**

REVENUE AND EXPENDITURE REPORT (UNAUDITED) 4th Qtr FY2026 9/30/26

	GL Number	Description	YTD Balance 09/30/2026	25-26 Adopted Budget	% Bdgt Used
	Revenues				
1	401-0000-325.100.00	Non Ad Valorem Assessments	3,027,437.46	3,098,450.00	97.71
2	401-0000-343.500.00	Wastewater Service Revenue	8,400,992.38	8,002,067.00	104.99
3	401-0000-343.550.01	Islamorada Wastewater Flow Revenue	1,308,700.65	1,300,000.00	100.67
4	401-0000-343.550.02	Salinity Surcharge - Islamorada	22,971.68	0.00	100.00
5	401-0000-343.550.03	Islamorada Insurance Surcharge	57,180.01	68,000.00	84.09
6	401-0000-343.600.00	Monroe County ILA	125,000.00	125,000.00	100.00
7	401-0000-361.100.00	Interest Income	1,260,332.53	1,200,000.00	105.03
8	401-0000-369.900.00	Miscellaneous Revenues	68,635.80	55,000.00	124.79
9	401-5900-325.100.01	SDC Prepayments	817,291.03	75,000.00	1,089.72
10	401-5900-334.350.01	ACOE Grant Revenue	564,978.68	1,000,000.00	56.50
11	401-5900-334.350.02	Stewardship Grant	4,422,552.99	7,225,000.00	61.21
12	401-5900-334.350.04	RESILIENT FL GRANT (MITIGATION)	0.00	1,000,000.00	0.00
13	401-5900-389.000.00	Cash on Hand	0.00	(251,070.00)	0.00
14	401-5900-389.000.01	PLANNED USE OF R&R RESERVES	0.00	1,662,600.00	0.00
15	401-5900-389.000.03	DEBT SERVICE RESERVES	1,558,959.00	1,558,959.00	100.00
	Total Revenues		**21,635,032.21**	**26,119,006.00**	**82.83**
	Expenditures				
	Non-Departmental				
16	401-0000-581.000.01	Transfer to Repair & Replacement Fund	1,200,000.00	1,200,000.00	100.00
17	401-0000-581.000.02	Transfer to Insurance Deductible Reserve	50,000.00	50,000.00	100.00
18	401-0000-720.000.00	Debt Service Transfer	1,558,960.66	1,558,961.00	100.00
	Total Non-Departmental		**2,808,960.66**	**2,808,961.00**	**100.00**
	5130 ADMINISTRATIVE				
19	401-5130-110.000.00	Payroll-Board Meeting Compensation	50,445.80	71,218.00	70.83
20	401-5130-120.000.00	Payroll-Administration	612,178.29	597,260.00	102.50
21	401-5130-210.000.00	Payroll Taxes	49,613.50	51,139.00	97.02
22	401-5130-220.000.00	Retirement Contributions	22,648.53	38,904.00	58.22
23	401-5130-230.000.00	Group Health Premiums	71,691.56	75,726.00	94.67
24	401-5130-230.001.00	Employee Benefit Administration Fees	0.00	500.00	0.00
25	401-5130-230.002.00	Group Life Insurance	823.00	904.00	91.04
26	401-5130-240.000.00	Workers Compensation Insurance	1,108.92	1,400.00	79.21
27	401-5130-250.000.00	Unemployment Compensation	197.74	4,000.00	4.94
28	401-5130-311.000.00	Professional Services: Website & Misc.	6,943.00	17,000.00	40.84
29	401-5130-311.000.01	Prof. Svcs: Alarm & Fire Monitoring	1,585.44	1,500.00	105.70
30	401-5130-311.000.02	Prof Svcs: Fire Systems Maintenance Svcs	3,450.00	3,740.00	92.25
31	401-5130-311.000.03	Prof. Svcs: Managed IT Services	21,775.00	23,100.00	94.26
32	401-5130-311.000.05	Professional Svcs: NWPS 457(b) Admin Fee	0.00	3,500.00	0.00
33	401-5130-311.000.07	Professional Svcs: IT Security Svcs	49,749.72	42,500.00	117.06
34	401-5130-311.000.11	Professional Services: Safety Training	0.00	1,000.00	0.00
35	401-5130-311.000.14	Professional Svcs: Mobile Device Mgmt	4,930.00	5,500.00	89.64
36	401-5130-311.002.00	Professional Svcs: FKAA Billing Services	281,317.85	325,458.00	86.44
37	401-5130-311.003.00	Professional Svcs: Tax Collector Fees	10,000.00	11,000.00	90.91
38	401-5130-311.005.00	Professional Svcs: Tax Roll Svc	0.00	2,500.00	0.00
39	401-5130-311.006.00	Professional Svcs: Engineering	12,062.50	15,000.00	80.42
40	401-5130-312.000.01	Professional Svcs: Lobbyists-Henderson	55,090.00	60,100.00	91.66

	GL Number	Description	YTD Balance 09/30/2026	25-26 Adopted Budget	% Bdgt Used
41	401-5130-312.000.02	Professional Svcs: Lobbyists-Hicks	45,000.00	45,000.00	100.00
42	401-5130-313.001.13	Professional Svcs: Legal-General Counsel	104,348.04	104,348.00	100.00
43	401-5130-313.001.14	Professional Svcs: Legal-Outside Counsel	2,750.90	10,000.00	27.51
44	401-5130-320.000.01	Professional Svcs: Accounting/Audit Svcs	31,000.00	35,000.00	88.57
45	401-5130-320.000.02	Professional Svcs: Finance Director	93,916.00	93,916.00	100.00
46	401-5130-320.000.03	Professional Svcs: General Manager Svcs.	164,642.00	164,642.00	100.00
47	401-5130-341.000.02	BSA SOFTWARE - ANNUAL LICENSES & SUPPORT	41,462.00	40,482.00	102.42
48	401-5130-341.000.05	EMAIL APPLICATIONS/MICROSOFT	13,532.58	20,000.00	67.66
49	401-5130-341.000.11	Document Management (M-Files)	3,771.04	6,000.00	62.85
50	401-5130-400.000.01	General Manager Travel & Training	7,222.70	10,000.00	72.23
51	401-5130-400.000.02	Clerk Travel & Training	730.25	2,500.00	29.21
52	401-5130-400.000.03	Other Travel & Training	7,044.25	15,000.00	46.96
53	401-5130-410.000.02	Advanced Cellular Svc / AT&T FirstNet	5,337.95	6,000.00	88.97
54	401-5130-410.000.04	Internet (Comcast & AT&T)	6,231.25	6,300.00	98.91
55	401-5130-410.000.05	Telephones / Data Comms	827.50	1,000.00	82.75
56	401-5130-410.000.07	VOIP	2,904.00	3,600.00	80.67
57	401-5130-410.000.08	GPS / Fleet Services	234.00	250.00	93.60
58	401-5130-411.000.02	IT:HARDWARE REPAIR-PARTS&MAINT UPGRADES	4,457.80	4,000.00	111.45
59	401-5130-411.000.03	IT: Software and Software Upgrades	15,478.31	32,805.00	47.18
60	401-5130-411.000.05	Bus. Cont. & IT Disaster Rcvry & Backup	19,252.36	18,980.00	101.43
61	401-5130-420.000.00	Postage & Delivery Expense	1,695.58	2,700.00	62.80
62	401-5130-430.000.00	Water (Utility)-District Office	476.71	700.00	68.10
63	401-5130-432.000.00	Facility Cleaning	20,800.00	21,000.00	99.05
64	401-5130-432.001.00	Solid Waste	1,461.96	1,700.00	86.00
65	401-5130-435.000.00	Electricity	3,727.71	3,300.00	112.96
66	401-5130-440.000.00	Rents & Leases	0.00	1,000.00	0.00
67	401-5130-450.000.00	Insurance (excluding W-Comp & Health)	436,229.14	460,941.00	94.64
68	401-5130-460.000.01	Repairs & Maintenance: Grounds Keeping	2,700.00	4,000.00	67.50
69	401-5130-460.000.02	Repairs & Maintenance: Vehicles	124.20	2,000.00	6.21
70	401-5130-460.000.04	Repairs & Maintenance: Bldgs & Equip	5,347.98	20,000.00	26.74
71	401-5130-470.000.00	Copier	5,945.91	7,000.00	84.94
72	401-5130-480.000.00	Advertisements	6,467.21	10,000.00	64.67
73	401-5130-491.000.00	Storm Supplies	0.00	2,000.00	0.00
74	401-5130-492.000.00	Bank Fees	10.00	500.00	2.00
75	401-5130-510.000.01	Office Supplies	10,553.57	14,000.00	75.38
76	401-5130-510.000.02	Printings	3,300.33	2,500.00	132.01
77	401-5130-510.000.03	Office Furnishings	1,725.34	4,000.00	43.13
78	401-5130-520.000.01	Employee Clothing/Uniforms	569.33	1,000.00	56.93
79	401-5130-520.007.00	Regulatory, Permit & Recording Fees	100.00	2,000.00	5.00
80	401-5130-520.010.02	Fuel: Vehicles	350.79	500.00	70.16
81	401-5130-521.000.00	Board: Travel, Admin, Office Supplies	9,162.33	8,000.00	114.53
82	401-5130-540.000.02	Clerk Dues	195.00	500.00	39.00
83	401-5130-540.000.03	Other Dues and Subscriptions	16,428.07	10,000.00	164.28
	Total 5130 - ADMINISTRATIVE		**2,353,124.94**	**2,552,113.00**	**92.20**
	5351 PLANT				
84	401-5351-120.000.00	Payroll-Plant	455,034.54	527,824.00	86.21
85	401-5351-210.000.00	Payroll Taxes	34,303.27	40,379.00	84.95
86	401-5351-220.000.00	Retirement Contributions	20,592.44	31,669.00	65.02
87	401-5351-230.000.00	Group Health Premiums	77,261.59	90,919.00	84.98
88	401-5351-230.002.00	Group Life Insurance	417.85	494.00	84.59
89	401-5351-240.000.00	Workers Compensation Insurance	9,787.55	10,500.00	93.21
90	401-5351-311.000.01	Prof. Svcs: Alarm & Fire Monitoring	386.88	500.00	77.38
91	401-5351-311.000.02	Prof Svcs: Fire Systems Maintenance Svcs	16,023.06	5,000.00	320.46

	GL Number	Description	YTD Balance 09/30/2026	25-26 Adopted Budget	% Bdgt Used
92	401-5351-311.000.03	Prof. Svcs: Managed IT Services	20,775.00	23,100.00	89.94
93	401-5351-311.000.11	Professional Services: Safety Training	1,170.00	2,000.00	58.50
94	401-5351-311.006.00	Professional Services: Engineering	80,906.25	80,000.00	101.13
95	401-5351-311.006.01	Engineering: Islamorada Misc Engineering	15,575.00	25,000.00	62.30
96	401-5351-400.000.00	Training, Education & Travel	5,188.04	2,500.00	207.52
97	401-5351-410.000.02	Advanced Cellular Svc / AT&T FirstNet	630.29	2,100.00	30.01
98	401-5351-410.000.04	Internet (Comcast & AT&T)	6,654.20	6,300.00	105.62
99	401-5351-410.000.05	Telephones / Data Comms	540.00	1,000.00	54.00
100	401-5351-410.000.08	GPS / Fleet Services	234.00	250.00	93.60
101	401-5351-410.000.09	Radios / P25 MCSO Agreement	655.42	750.00	87.39
102	401-5351-410.000.10	Plant Gate Data Service	1,390.80	1,500.00	92.72
103	401-5351-411.000.02	IT:HARDWARE REPAIR-PARTS&MAINT UPGRADES	5,101.95	4,000.00	127.55
104	401-5351-411.000.05	Bus. Cont. & IT Disaster Rcvry & Backup	16,625.38	18,600.00	89.38
105	401-5351-420.000.00	Postage & Delivery Expense	25,007.93	28,000.00	89.31
106	401-5351-430.000.00	Water- Plant	6,890.74	5,500.00	125.29
107	401-5351-432.000.00	Facility Cleaning	5,450.00	4,950.00	110.10
108	401-5351-432.001.00	Solid Waste	10,619.26	12,000.00	88.49
109	401-5351-435.000.00	Electricity - Plant	491,203.43	480,000.00	102.33
110	401-5351-440.000.00	Rents & Leases	4,248.46	7,000.00	60.69
111	401-5351-460.000.01	Repairs & Maintenance: Grounds Keeping	0.00	6,000.00	0.00
112	401-5351-460.000.02	Repairs & Maintenance: Vehicles	88.00	1,000.00	8.80
113	401-5351-460.000.03	Repairs & Maintenance: Equipment	151,420.20	300,000.00	50.47
114	401-5351-460.000.04	Repairs & Maintenance: Buildings	25,602.36	40,000.00	64.01
115	401-5351-491.000.01	Storm Supplies & Preparation	0.00	2,000.00	0.00
116	401-5351-510.000.01	Office Supplies	5,171.46	4,500.00	114.92
117	401-5351-510.000.03	Office Furnishings	0.00	1,500.00	0.00
118	401-5351-511.000.00	Safety Supplies	1,254.33	7,500.00	16.72
119	401-5351-520.000.00	Employee Uniforms / Clothing	441.19	1,500.00	29.41
120	401-5351-520.001.00	Lab Services (sample analysis)	46,637.44	46,000.00	101.39
121	401-5351-520.002.00	Sludge Handling	911,372.73	1,092,350.00	83.43
122	401-5351-520.003.00	Chemicals	644,043.29	750,000.00	85.87
123	401-5351-520.004.00	Lab Supplies	34,383.11	40,000.00	85.96
124	401-5351-520.005.00	Supplies & Tools (plant operations)	9,767.00	18,000.00	54.26
125	401-5351-520.006.00	Immunizations	0.00	1,200.00	0.00
126	401-5351-520.007.00	Regulatory/ Permit Fees	420.00	1,000.00	42.00
127	401-5351-520.010.01	Fuel: Equipment	335.06	500.00	67.01
128	401-5351-520.010.02	Fuel: Vehicles	1,197.02	1,000.00	119.70
129	401-5351-520.010.03	Fuel: Generators	10,716.35	7,000.00	153.09
130	401-5351-540.000.00	Dues & Subscriptions	0.00	400.00	0.00
	Total 5351 - PLANT		**3,155,522.87**	**3,733,285.00**	**84.52**
	5352 FIELD				
131	401-5352-120.000.00	Payroll-Field	1,373,261.68	1,532,235.00	89.62
132	401-5352-210.000.00	Payroll Taxes	103,736.80	117,216.00	88.50
133	401-5352-220.000.00	Retirement Contributions	49,535.83	91,934.00	53.88
134	401-5352-230.000.00	Group Health Premiums	204,890.34	257,602.00	79.54
135	401-5352-230.002.00	Group Life Insurance	1,417.10	1,400.00	101.22
136	401-5352-240.000.00	Workers Compensation Insurance	27,148.63	25,600.00	106.05
137	401-5352-311.000.01	Prof. Svcs: Alarm & Fire Monitoring	2,280.96	2,400.00	95.04
138	401-5352-311.000.02	Prof Svcs: Fire Systems Maintenance Svcs	12,231.56	19,000.00	64.38
139	401-5352-311.000.03	Prof. Svcs: Managed IT Services	20,775.00	23,100.00	89.94
140	401-5352-311.000.11	Professional Services: Safety Training	3,639.62	7,500.00	48.53
141	401-5352-311.000.15	Solar Maintenance Contract	0.00	12,500.00	0.00
142	401-5352-311.000.17	PROFESSIONAL SVCS: FLOVAC SERVICE AGMT	23,750.00	0.00	100.00

	GL Number	Description	YTD Balance 09/30/2026	25-26 Adopted Budget	% Bdgt Used
143	401-5352-311.006.00	Professional Services: Engineering	79,703.75	80,000.00	99.63
144	401-5352-341.000.04	ESRI	11,900.00	12,500.00	95.20
145	401-5352-341.000.06	GPServ/Trimble	4,238.90	4,100.00	103.39
146	401-5352-341.000.13	GIS Upgrade	60,404.50	60,000.00	100.67
147	401-5352-341.000.14	GIS-IWATER	19,980.00	0.00	100.00
148	401-5352-400.000.00	Training, Education & Travel	17,473.97	18,000.00	97.08
149	401-5352-410.000.02	Advanced Cellular Svc / AT&T FirstNet	7,036.94	6,600.00	106.62
150	401-5352-410.000.04	Internet (Comcast & AT&T)	16,458.68	18,500.00	88.97
151	401-5352-410.000.05	Telephones / Data Comms	6,093.96	6,000.00	101.57
152	401-5352-410.000.08	GPS / Fleet Services	3,375.89	3,500.00	96.45
153	401-5352-410.000.09	Radios / P25 MCSO Agreement	2,949.39	3,750.00	78.65
154	401-5352-411.000.02	IT:HARDWARE REPAIR-PARTS&MAINT UPGRADES	10,628.62	6,000.00	177.14
155	401-5352-411.000.03	IT: SOFTWARE & SOFTWARE UPGRADES	5,166.72	10,500.00	49.21
156	401-5352-411.000.05	Bus. Cont. & IT Disaster Rcvry & Backup	19,162.75	17,625.00	108.72
157	401-5352-430.000.01	Water- Vac Station A	1,517.02	450.00	337.12
158	401-5352-430.000.02	Water- Vac Station D	984.09	550.00	178.93
159	401-5352-430.000.03	Water- Vac Station F	275.31	400.00	68.83
160	401-5352-430.000.04	Water- Vac Station G	330.56	400.00	82.64
161	401-5352-430.000.05	Water- Vac Station I - house	348.70	900.00	38.74
162	401-5352-430.000.06	Water- Vac Station I & Office	623.86	500.00	124.77
163	401-5352-430.000.07	Water- Vac Station JK	1,880.35	530.00	354.78
164	401-5352-430.000.09	Water- Humpty Dumpty	298.26	310.00	96.21
165	401-5352-430.000.10	Water- Harborage	301.46	300.00	100.49
166	401-5352-430.000.12	Water- Peter Pan	303.59	300.00	101.20
167	401-5352-432.000.00	Facility Cleaning	11,630.00	12,100.00	96.12
168	401-5352-432.001.00	Solid Waste	1,246.50	3,000.00	41.55
169	401-5352-435.000.01	Electricity- Vac Station A	75,570.34	83,750.00	90.23
170	401-5352-435.000.02	Electricity- Vac Station D	61,937.65	78,000.00	79.41
171	401-5352-435.000.03	Electricity- Vac Station E	53,282.61	55,000.00	96.88
172	401-5352-435.000.04	Electricity- Vac Station F	2,136.88	2,500.00	85.48
173	401-5352-435.000.05	Electricity- Vac Station G	32,669.51	40,000.00	81.67
174	401-5352-435.000.06	Electricity- Vac Station I	9,993.25	11,000.00	90.85
175	401-5352-435.000.07	Electricity- Vac Station I - house	1,497.71	2,000.00	74.89
176	401-5352-435.000.08	Electricity- Vac Station I - office	2,088.02	2,000.00	104.40
177	401-5352-435.000.09	Electricity- Vac Station JK	55,053.10	55,000.00	100.10
178	401-5352-435.000.11	Electricity- Humpty Dumpty	678.37	1,000.00	67.84
179	401-5352-435.000.12	Electricity- Harborage	818.06	1,000.00	81.81
180	401-5352-435.000.13	Electricity-Coastal WW/Largo Pk Lift Sta	768.09	1,000.00	76.81
181	401-5352-435.000.14	Electricity-Peter Pan/Tweedy Pie	679.57	800.00	84.95
182	401-5352-440.000.00	Rents & Leases	0.00	6,000.00	0.00
183	401-5352-460.000.01	Repairs & Maintenance: Grounds Keeping	13,575.00	15,000.00	90.50
184	401-5352-460.000.02	Repairs & Maintenance: Vehicles	24,016.37	30,000.00	80.05
185	401-5352-460.000.03	Repairs & Maintenance: Equipment	104,606.19	300,000.00	34.87
186	401-5352-460.000.04	Repairs & Maintenance: Buildings	18,987.32	35,000.00	54.25
187	401-5352-460.000.05	Repairs & Maintenance: Collection System	101,702.70	100,000.00	101.70
188	401-5352-460.000.05-CS SEWER	Repairs & Maintenance: Coll Sys/Cust Svc	0.00	2,000.00	0.00
189	401-5352-460.000.08	COLL SYS/GRINDER PUMP MONITORING	10,500.00	4,500.00	233.33
190	401-5352-470.000.00	Copier	2,188.62	1,980.00	110.54
191	401-5352-491.000.01	Storm Supplies & Preparation	0.00	2,000.00	0.00
192	401-5352-510.000.01	Office Supplies	1,926.64	2,500.00	77.07
193	401-5352-510.000.03	Office Furnishings	526.62	3,000.00	17.55
194	401-5352-511.000.00	Safety Supplies	4,527.24	5,000.00	90.54
195	401-5352-520.000.00	Employee Uniforms / Clothing	3,331.30	3,200.00	104.10
196	401-5352-520.005.00	Supplies and Tools (field operations)	32,061.53	46,000.00	69.70

	GL Number	Description	YTD Balance 09/30/2026	25-26 Adopted Budget	% Bdgt Used
197	401-5352-520.006.00	Immunizations	0.00	1,500.00	0.00
198	401-5352-520.010.01	Fuel: Equipment	1,756.25	2,000.00	87.81
199	401-5352-520.010.02	Fuel: Vehicles	51,720.69	40,000.00	129.30
200	401-5352-520.010.03	Fuel: Generators	12,952.76	11,000.00	117.75
201	401-5352-540.000.00	Dues & Subscriptions	0.00	100.00	0.00
	Total 5352 - FIELD		**2,788,533.68**	**3,301,132.00**	**84.47**
	5354 FACILITIES				
202	401-5354-120.000.00	Payroll-Facilities	577,544.06	695,356.00	83.06
203	401-5354-210.000.00	Payroll Taxes	43,795.58	53,195.00	82.33
204	401-5354-220.000.00	Retirement Contributions	28,540.16	41,721.00	68.41
205	401-5354-230.000.00	Group Health Premiums	102,481.55	120,659.00	84.93
206	401-5354-230.002.00	Group Life Insurance	486.35	675.00	72.05
207	401-5354-240.000.00	Workers Compensation Insurance	11,304.70	13,000.00	86.96
208	401-5354-311.000.03	Prof. Svcs. Managed IT Services	20,400.00	23,100.00	88.31
209	401-5354-311.000.11	Professional Services: Safety Training	1,170.00	4,000.00	29.25
210	401-5354-400.000.00	Training, Education & Travel	11,914.13	10,000.00	119.14
211	401-5354-410.000.02	Advanced Cellular Svc / AT&T FirstNet	769.78	1,300.00	59.21
212	401-5354-410.000.08	GPS / Fleet Services	1,170.00	1,300.00	90.00
213	401-5354-410.000.09	Radios / P25 MCSO Agreement	1,638.55	1,875.00	87.39
214	401-5354-411.000.02	IT:HARDWARE REPAIR-PARTS&MAINT UPGRADES	0.00	3,000.00	0.00
215	401-5354-411.000.05	Bus. Cont. & IT Disaster Rcvry & Backup	8,528.04	8,600.00	99.16
216	401-5354-432.000.00	Facility Cleaning	5,450.00	4,950.00	110.10
217	401-5354-460.000.02	Repairs & Maintenance: Vehicles	4,230.64	5,000.00	84.61
218	401-5354-460.000.03	Repairs & Maintenance: Equipment	0.00	1,200.00	0.00
219	401-5354-510.000.01	Office Supplies	1,014.37	1,000.00	101.44
220	401-5354-510.000.03	Office Furnishings	217.92	800.00	27.24
221	401-5354-511.000.00	Safety Supplies	449.37	2,000.00	22.47
222	401-5354-520.000.00	Employee Uniforms/ Clothing	62.00	1,800.00	3.44
223	401-5354-520.005.00	Supplies & Tools	19,792.82	20,000.00	98.96
224	401-5354-520.006.00	Immunizations	0.00	1,500.00	0.00
225	401-5354-520.010.02	Fuel: Vehicles	6,257.34	7,500.00	83.43
	Total 5354 - FACILITIES		**847,217.36**	**1,023,531.00**	**82.77**
	5900 CAPITAL IMPROVEMENTS				
226	401-5900-311.006.00-2018-007	Engineering: VPS Piping Mod	9,141.99	736.00	1,242.12
227	401-5900-311.006.00-2021-002	Engineering: Odor Control at Vac Stns	139,013.00	160,000.00	86.88
228	401-5900-311.006.00-2022-000	Engineering: Capital Prelim Design & Bgt	14,757.00	20,000.00	73.79
229	401-5900-311.006.00-2022-001	Engineering: Effluent Filtration Upgrade	47,450.21	50,000.00	94.90
230	401-5900-311.006.00-2022-004	Engineering: Vac System Monitoring	120,682.25	65,000.00	185.67
231	401-5900-311.006.00-2022-008	Engineering: Power Conditioning Vac Stns	376.50	1,000.00	37.65
232	401-5900-311.006.00-2022-009	Engineering -Power Cond & Elec Up @ WWTP	119,546.75	125,000.00	95.64
233	401-5900-311.006.00-2022-010	Engineering: EQ Tank Headworks/Scrn Upg	360,177.75	300,000.00	120.06
234	401-5900-311.006.00-2025-003	Engineering: Vac Stn Sewage Tank Upg	138,227.75	218,377.00	63.30
235	401-5900-311.006.00-2025-004	Engineering: MJ Wood Fire Supp Dispute	2,286.75	2,287.00	99.99
236	401-5900-311.006.00-2025-005	Engineering: Ductile Iron Piping Corrosi	75,815.50	250,000.00	30.33
237	401-5900-311.006.00-2025-006	Engineering: Coll Sys Action Plan (SAP)	99,546.50	100,000.00	99.55
238	401-5900-311.006.00-CSAPCMMS	ENGINEERING: CSAP CMMS	144,520.25	100,000.00	144.52
239	401-5900-311.006.00-SLRGNRL	ENGINEERING: SEA LEVEL RISE GENERAL	22,222.50	40,000.00	55.56
240	401-5900-311.006.00-SLRSTILL	ENGINEERING: SEA LEVEL RISE STILLWRIGHT	3,018.50	15,000.00	20.12
241	401-5900-311.006.00-SLRTW	ENGINEERING: SEA LEVEL RISE TWIN LAKES	73,814.25	30,000.00	246.05
242	401-5900-311.006.00-SLRWW	ENGINEERING SEA LEVEL RISE WINSTON WATER	176,194.50	200,000.00	88.10
243	401-5900-311.006.00-SvcConRv	Engineering: Service Connection Revision	2,785.00	20,000.00	13.93
244	401-5900-630.000.00-2018-007	Capital Outlay:VPS PipingMod	1,980.00	0.00	100.00

	GL Number	Description	YTD Balance 09/30/2026	25-26 Adopted Budget	% Bdgt Used
245	401-5900-630.000.00-2021-002	Capital Outlay: Odor Control at Vac Stns	2,285,196.85	2,400,000.00	95.22
246	401-5900-630.000.00-2022-004	Capital Outlay: Vac System Monitoring	940,681.89	650,000.00	144.72
247	401-5900-630.000.00-2022-009	Cap Outlay: Power Cond & Elec Upg WWTP	1,034,067.27	1,216,000.00	85.04
248	401-5900-630.000.00-2022-010	Cap Outlay: EQ Tank Headworks/Scrn Upg	0.00	2,250,000.00	0.00
249	401-5900-630.000.00-2023-002	Cap Outlay: Ventilation Upg @ Vac Stns	0.00	400,000.00	0.00
250	401-5900-630.000.00-2023-026	Capital Outlay: Diffuser Sleeves	25,631.50	26,000.00	98.58
251	401-5900-630.000.00-2024-003	Capital Outlay: Replace Vac Pit Collar	1,928.41	20,000.00	9.64
252	401-5900-630.000.00-2025-002	Cap Outlay:Coll Sys Sea Level Rise Ph1	21,754.96	0.00	100.00
253	401-5900-630.000.00-2025-003	CAPITAL OUTLAY: VAC STN SEWAGE TANK UPG	0.00	2,500,000.00	0.00
254	401-5900-630.000.00-2025-005	Capital Outlay: Ductile Iron Piping Corr	0.00	1,000,000.00	0.00
255	401-5900-630.000.00-SLRTW	CAPITAL OUTLAY: SLR TWIN LAKES	63,956.63	0.00	100.00
256	401-5900-630.005.00-SCADAUPG	SCADA Upgrade	6,486.33	120,000.00	5.41
257	401-5900-640.000.00-2023-017	Capital Outlay: Vac Pump Rebuild & Spare	54,000.00	67,500.00	80.00
258	401-5900-640.000.00-2023-020	Capital Outlay: Grinder Pumps	24,861.48	21,000.00	118.39
259	401-5900-640.000.00-2023-023	Cap Outlay: Cameras-Plant, Admin, Field	5,053.42	10,000.00	50.53
260	401-5900-640.000.00-2024-010	Capital Outlay: Admin/Board Vehicle	28,207.00	32,000.00	88.15
261	401-5900-640.000.00-2024-011	Capital Outlay: Field Ops Truck	59,572.00	70,000.00	85.10
262	401-5900-640.000.00-2026-001	CAPITAL OUTLAY - SEWAGE PUMP VFD SPARES	19,716.50	47,000.00	41.95
263	401-5900-640.000.00-2026-002	CAPITAL OUTLAY - VACTRON TANK REPLACEMT	29,491.13	27,084.00	108.89
264	401-5900-640.000.00-2026-003	CAPITAL OUTLAY - HYDRAULIC PUMP & PWR UN	12,874.18	15,000.00	85.83
265	401-5900-645.000.00	Capital Outlay - Computer Equipment	22,848.07	56,000.00	40.80
266	401-5900-650.003.00-SvcConRv	Service Connection Construction Revision	29,080.00	75,000.00	38.77
	Total 5900 - CAPITAL IMPROVEMENTS		**6,216,964.57**	**12,699,984.00**	**48.95**
		TOTAL REVENUES	**21,635,032.21**	**26,119,006.00**	**82.83**
		TOTAL EXPENDITURES	**18,170,324.08**	**26,119,006.00**	**69.57**
		NET OF REVENUES & EXPENDITURES:	**3,464,708.13**		

SORTED BY EXPENSE DESCRIPTION REPORT 4TH QTR FY2026 9/30/26

	GL Number	Description	YTD Balance 09/30/2026	25-26 Adopted Budget	% Bdgt Used
53	401-5130-410.000.02	Advanced Cellular Svc / AT&T FirstNet	5,337.95	6,000.00	88.97
97	401-5351-410.000.02	Advanced Cellular Svc / AT&T FirstNet	630.29	2,100.00	30.01
149	401-5352-410.000.02	Advanced Cellular Svc / AT&T FirstNet	7,036.94	6,600.00	106.62
211	401-5354-410.000.02	Advanced Cellular Svc / AT&T FirstNet	769.78	1,300.00	59.21
72	401-5130-480.000.00	Advertisements	6,467.21	10,000.00	64.67
74	401-5130-492.000.00	Bank Fees	10.00	500.00	2.00
81	401-5130-521.000.00	Board: Travel, Admin, Office Supplies	9,162.33	8,000.00	114.53
47	401-5130-341.000.02	BSA SOFTWARE - ANNUAL LICENSES & SUPPORT	41,462.00	40,482.00	102.42
60	401-5130-411.000.05	Bus. Cont. & IT Disaster Rcvry & Backup	19,252.36	18,980.00	101.43
104	401-5351-411.000.05	Bus. Cont. & IT Disaster Rcvry & Backup	16,625.38	18,600.00	89.38
156	401-5352-411.000.05	Bus. Cont. & IT Disaster Rcvry & Backup	19,162.75	17,625.00	108.72
215	401-5354-411.000.05	Bus. Cont. & IT Disaster Rcvry & Backup	8,528.04	8,600.00	99.16
122	401-5351-520.003.00	Chemicals	644,043.29	750,000.00	85.87
82	401-5130-540.000.02	Clerk Dues	195.00	500.00	39.00
51	401-5130-400.000.02	Clerk Travel & Training	730.25	2,500.00	29.21
189	401-5352-460.000.08	COLL SYS/GRINDER PUMP MONITORING	10,500.00	4,500.00	233.33
71	401-5130-470.000.00	Copier	5,945.91	7,000.00	84.94
190	401-5352-470.000.00	Copier	2,188.62	1,980.00	110.54
49	401-5130-341.000.11	Document Management (M-Files)	3,771.04	6,000.00	62.85
130	401-5351-540.000.00	Dues & Subscriptions	0.00	400.00	0.00
201	401-5352-540.000.00	Dues & Subscriptions	0.00	100.00	0.00
65	401-5130-435.000.00	Electricity	3,727.71	3,300.00	112.96
109	401-5351-435.000.00	Electricity - Plant	491,203.43	480,000.00	102.33
179	401-5352-435.000.12	Electricity- Harborage	818.06	1,000.00	81.81
178	401-5352-435.000.11	Electricity- Humpty Dumpty	678.37	1,000.00	67.84
169	401-5352-435.000.01	Electricity- Vac Station A	75,570.34	83,750.00	90.23
170	401-5352-435.000.02	Electricity- Vac Station D	61,937.65	78,000.00	79.41
171	401-5352-435.000.03	Electricity- Vac Station E	53,282.61	55,000.00	96.88
172	401-5352-435.000.04	Electricity- Vac Station F	2,136.88	2,500.00	85.48
173	401-5352-435.000.05	Electricity- Vac Station G	32,669.51	40,000.00	81.67
174	401-5352-435.000.06	Electricity- Vac Station I	9,993.25	11,000.00	90.85
175	401-5352-435.000.07	Electricity- Vac Station I - house	1,497.71	2,000.00	74.89
176	401-5352-435.000.08	Electricity- Vac Station I - office	2,088.02	2,000.00	104.40
177	401-5352-435.000.09	Electricity- Vac Station JK	55,053.10	55,000.00	100.10
180	401-5352-435.000.13	Electricity-Coastal WW/Largo Pk Lift Sta	768.09	1,000.00	76.81
181	401-5352-435.000.14	Electricity-Peter Pan/Tweedy Pie	679.57	800.00	84.95
48	401-5130-341.000.05	EMAIL APPLICATIONS/MICROSOFT	13,532.58	20,000.00	67.66
24	401-5130-230.001.00	Employee Benefit Administration Fees	0.00	500.00	0.00
78	401-5130-520.000.01	Employee Clothing/Uniforms	569.33	1,000.00	56.93
119	401-5351-520.000.00	Employee Uniforms / Clothing	441.19	1,500.00	29.41
195	401-5352-520.000.00	Employee Uniforms / Clothing	3,331.30	3,200.00	104.10
222	401-5354-520.000.00	Employee Uniforms/ Clothing	62.00	1,800.00	3.44
95	401-5351-311.006.01	Engineering: Islamorada Misc Engineering	15,575.00	25,000.00	62.30
144	401-5352-341.000.04	ESRI	11,900.00	12,500.00	95.20
63	401-5130-432.000.00	Facility Cleaning	20,800.00	21,000.00	99.05
107	401-5351-432.000.00	Facility Cleaning	5,450.00	4,950.00	110.10
167	401-5352-432.000.00	Facility Cleaning	11,630.00	12,100.00	96.12
216	401-5354-432.000.00	Facility Cleaning	5,450.00	4,950.00	110.10
127	401-5351-520.010.01	Fuel: Equipment	335.06	500.00	67.01
198	401-5352-520.010.01	Fuel: Equipment	1,756.25	2,000.00	87.81

	GL Number	Description	YTD Balance	25-26	% Bdgt
			09/30/2026	Adopted Budget	Used
129	401-5351-520.010.03	Fuel: Generators	10,716.35	7,000.00	153.09
200	401-5352-520.010.03	Fuel: Generators	12,952.76	11,000.00	117.75
80	401-5130-520.010.02	Fuel: Vehicles	350.79	500.00	70.16
128	401-5351-520.010.02	Fuel: Vehicles	1,197.02	1,000.00	119.70
199	401-5352-520.010.02	Fuel: Vehicles	51,720.69	40,000.00	129.30
225	401-5354-520.010.02	Fuel: Vehicles	6,257.34	7,500.00	83.43
50	401-5130-400.000.01	General Manager Travel & Training	7,222.70	10,000.00	72.23
146	401-5352-341.000.13	GIS Upgrade	60,404.50	60,000.00	100.67
147	401-5352-341.000.14	GIS-IWATER	19,980.00	0.00	100.00
57	401-5130-410.000.08	GPS / Fleet Services	234.00	250.00	93.60
100	401-5351-410.000.08	GPS / Fleet Services	234.00	250.00	93.60
152	401-5352-410.000.08	GPS / Fleet Services	3,375.89	3,500.00	96.45
212	401-5354-410.000.08	GPS / Fleet Services	1,170.00	1,300.00	90.00
145	401-5352-341.000.06	GPServ/Trimble	4,238.90	4,100.00	103.39
23	401-5130-230.000.00	Group Health Premiums	71,691.56	75,726.00	94.67
87	401-5351-230.000.00	Group Health Premiums	77,261.59	90,919.00	84.98
134	401-5352-230.000.00	Group Health Premiums	204,890.34	257,602.00	79.54
205	401-5354-230.000.00	Group Health Premiums	102,481.55	120,659.00	84.93
25	401-5130-230.002.00	Group Life Insurance	823.00	904.00	91.04
88	401-5351-230.002.00	Group Life Insurance	417.85	494.00	84.59
135	401-5352-230.002.00	Group Life Insurance	1,417.10	1,400.00	101.22
206	401-5354-230.002.00	Group Life Insurance	486.35	675.00	72.05
125	401-5351-520.006.00	Immunizations	0.00	1,200.00	0.00
197	401-5352-520.006.00	Immunizations	0.00	1,500.00	0.00
224	401-5354-520.006.00	Immunizations	0.00	1,500.00	0.00
67	401-5130-450.000.00	Insurance (excluding W-Comp & Health)	436,229.14	460,941.00	94.64
54	401-5130-410.000.04	Internet (Comcast & AT&T)	6,231.25	6,300.00	98.91
98	401-5351-410.000.04	Internet (Comcast & AT&T)	6,654.20	6,300.00	105.62
150	401-5352-410.000.04	Internet (Comcast & AT&T)	16,458.68	18,500.00	88.97
155	401-5352-411.000.03	IT: SOFTWARE & SOFTWARE UPGRADES	5,166.72	10,500.00	49.21
59	401-5130-411.000.03	IT: Software and Software Upgrades	15,478.31	32,805.00	47.18
58	401-5130-411.000.02	IT:HARDWARE REPAIR-PARTS&MAINT UPGRADES	4,457.80	4,000.00	111.45
103	401-5351-411.000.02	IT:HARDWARE REPAIR-PARTS&MAINT UPGRADES	5,101.95	4,000.00	127.55
154	401-5352-411.000.02	IT:HARDWARE REPAIR-PARTS&MAINT UPGRADES	10,628.62	6,000.00	177.14
214	401-5354-411.000.02	IT:HARDWARE REPAIR-PARTS&MAINT UPGRADES	0.00	3,000.00	0.00
120	401-5351-520.001.00	Lab Services (sample analysis)	46,637.44	46,000.00	101.39
123	401-5351-520.004.00	Lab Supplies	34,383.11	40,000.00	85.96
77	401-5130-510.000.03	Office Furnishings	1,725.34	4,000.00	43.13
117	401-5351-510.000.03	Office Furnishings	0.00	1,500.00	0.00
193	401-5352-510.000.03	Office Furnishings	526.62	3,000.00	17.55
220	401-5354-510.000.03	Office Furnishings	217.92	800.00	27.24
75	401-5130-510.000.01	Office Supplies	10,553.57	14,000.00	75.38
116	401-5351-510.000.01	Office Supplies	5,171.46	4,500.00	114.92
192	401-5352-510.000.01	Office Supplies	1,926.64	2,500.00	77.07
219	401-5354-510.000.01	Office Supplies	1,014.37	1,000.00	101.44
83	401-5130-540.000.03	Other Dues and Subscriptions	16,428.07	10,000.00	164.28
52	401-5130-400.000.03	Other Travel & Training	7,044.25	15,000.00	46.96
21	401-5130-210.000.00	Payroll Taxes	49,613.50	51,139.00	97.02
85	401-5351-210.000.00	Payroll Taxes	34,303.27	40,379.00	84.95
132	401-5352-210.000.00	Payroll Taxes	103,736.80	117,216.00	88.50
203	401-5354-210.000.00	Payroll Taxes	43,795.58	53,195.00	82.33
20	401-5130-120.000.00	Payroll-Administration	612,178.29	597,260.00	102.50
19	401-5130-110.000.00	Payroll-Board Meeting Compensation	50,445.80	71,218.00	70.83
202	401-5354-120.000.00	Payroll-Facilities	577,544.06	695,356.00	83.06

	GL Number	Description	YTD Balance	25-26	% Bdgt
			09/30/2026	Adopted Budget	Used
131	401-5352-120.000.00	Payroll-Field	1,373,261.68	1,532,235.00	89.62
84	401-5351-120.000.00	Payroll-Plant	455,034.54	527,824.00	86.21
102	401-5351-410.000.10	Plant Gate Data Service	1,390.80	1,500.00	92.72
61	401-5130-420.000.00	Postage & Delivery Expense	1,695.58	2,700.00	62.80
105	401-5351-420.000.00	Postage & Delivery Expense	25,007.93	28,000.00	89.31
76	401-5130-510.000.02	Printings	3,300.33	2,500.00	132.01
30	401-5130-311.000.02	Prof Svcs: Fire Systems Maintenance Svcs	3,450.00	3,740.00	92.25
91	401-5351-311.000.02	Prof Svcs: Fire Systems Maintenance Svcs	16,023.06	5,000.00	320.46
138	401-5352-311.000.02	Prof Svcs: Fire Systems Maintenance Svcs	12,231.56	19,000.00	64.38
208	401-5354-311.000.03	Prof. Svcs. Managed IT Services	20,400.00	23,100.00	88.31
29	401-5130-311.000.01	Prof. Svcs: Alarm & Fire Monitoring	1,585.44	1,500.00	105.70
90	401-5351-311.000.01	Prof. Svcs: Alarm & Fire Monitoring	386.88	500.00	77.38
137	401-5352-311.000.01	Prof. Svcs: Alarm & Fire Monitoring	2,280.96	2,400.00	95.04
31	401-5130-311.000.03	Prof. Svcs: Managed IT Services	21,775.00	23,100.00	94.26
92	401-5351-311.000.03	Prof. Svcs: Managed IT Services	20,775.00	23,100.00	89.94
139	401-5352-311.000.03	Prof. Svcs: Managed IT Services	20,775.00	23,100.00	89.94
143	401-5352-311.006.00	Professional Services: Engineering	79,703.75	80,000.00	99.63
94	401-5351-311.006.00	Professional Services: Engineering	80,906.25	80,000.00	101.13
34	401-5130-311.000.11	Professional Services: Safety Training	0.00	1,000.00	0.00
93	401-5351-311.000.11	Professional Services: Safety Training	1,170.00	2,000.00	58.50
140	401-5352-311.000.11	Professional Services: Safety Training	3,639.62	7,500.00	48.53
209	401-5354-311.000.11	Professional Services: Safety Training	1,170.00	4,000.00	29.25
28	401-5130-311.000.00	Professional Services: Website & Misc.	6,943.00	17,000.00	40.84
38	401-5130-311.005.00	Professional Svcs: Tax Roll Svc	0.00	2,500.00	0.00
44	401-5130-320.000.01	Professional Svcs: Accounting/Audit Svcs	31,000.00	35,000.00	88.57
39	401-5130-311.006.00	Professional Svcs: Engineering	12,062.50	15,000.00	80.42
45	401-5130-320.000.02	Professional Svcs: Finance Director	93,916.00	93,916.00	100.00
36	401-5130-311.002.00	Professional Svcs: FKAA Billing Services	281,317.85	325,458.00	86.44
142	401-5352-311.000.17	PROFESSIONAL SVCS: FLOVAC SERVICE AGMT	23,750.00	0.00	100.00
46	401-5130-320.000.03	Professional Svcs: General Manager Svcs.	164,642.00	164,642.00	100.00
33	401-5130-311.000.07	Professional Svcs: IT Security Svcs	49,749.72	42,500.00	117.06
42	401-5130-313.001.13	Professional Svcs: Legal-General Counsel	104,348.04	104,348.00	100.00
43	401-5130-313.001.14	Professional Svcs: Legal-Outside Counsel	2,750.90	10,000.00	27.51
40	401-5130-312.000.01	Professional Svcs: Lobbyists-Henderson	55,090.00	60,100.00	91.66
41	401-5130-312.000.02	Professional Svcs: Lobbyists-Hicks	45,000.00	45,000.00	100.00
35	401-5130-311.000.14	Professional Svcs: Mobile Device Mgmt	4,930.00	5,500.00	89.64
32	401-5130-311.000.05	Professional Svcs: NWPS 457(b) Admin Fee	0.00	3,500.00	0.00
37	401-5130-311.003.00	Professional Svcs: Tax Collector Fees	10,000.00	11,000.00	90.91
101	401-5351-410.000.09	Radios / P25 MCSO Agreement	655.42	750.00	87.39
153	401-5352-410.000.09	Radios / P25 MCSO Agreement	2,949.39	3,750.00	78.65
213	401-5354-410.000.09	Radios / P25 MCSO Agreement	1,638.55	1,875.00	87.39
79	401-5130-520.007.00	Regulatory, Permit & Recording Fees	100.00	2,000.00	5.00
126	401-5351-520.007.00	Regulatory/ Permit Fees	420.00	1,000.00	42.00
66	401-5130-440.000.00	Rents & Leases	0.00	1,000.00	0.00
110	401-5351-440.000.00	Rents & Leases	4,248.46	7,000.00	60.69
182	401-5352-440.000.00	Rents & Leases	0.00	6,000.00	0.00
70	401-5130-460.000.04	Repairs & Maintenance: Bldgs & Equip	5,347.98	20,000.00	26.74
114	401-5351-460.000.04	Repairs & Maintenance: Buildings	25,602.36	40,000.00	64.01
186	401-5352-460.000.04	Repairs & Maintenance: Buildings	18,987.32	35,000.00	54.25
188	401-5352-460.000.05-CS SEWER	Repairs & Maintenance: Coll Sys/Cust Svc	0.00	2,000.00	0.00
187	401-5352-460.000.05	Repairs & Maintenance: Collection System	101,702.70	100,000.00	101.70
113	401-5351-460.000.03	Repairs & Maintenance: Equipment	151,420.20	300,000.00	50.47
185	401-5352-460.000.03	Repairs & Maintenance: Equipment	104,606.19	300,000.00	34.87
218	401-5354-460.000.03	Repairs & Maintenance: Equipment	0.00	1,200.00	0.00

	GL Number	Description	YTD Balance	25-26	% Bdgt
			09/30/2026	Adopted Budget	Used
68	401-5130-460.000.01	Repairs & Maintenance: Grounds Keeping	2,700.00	4,000.00	67.50
111	401-5351-460.000.01	Repairs & Maintenance: Grounds Keeping	0.00	6,000.00	0.00
183	401-5352-460.000.01	Repairs & Maintenance: Grounds Keeping	13,575.00	15,000.00	90.50
69	401-5130-460.000.02	Repairs & Maintenance: Vehicles	124.20	2,000.00	6.21
112	401-5351-460.000.02	Repairs & Maintenance: Vehicles	88.00	1,000.00	8.80
184	401-5352-460.000.02	Repairs & Maintenance: Vehicles	24,016.37	30,000.00	80.05
217	401-5354-460.000.02	Repairs & Maintenance: Vehicles	4,230.64	5,000.00	84.61
22	401-5130-220.000.00	Retirement Contributions	22,648.53	38,904.00	58.22
86	401-5351-220.000.00	Retirement Contributions	20,592.44	31,669.00	65.02
133	401-5352-220.000.00	Retirement Contributions	49,535.83	91,934.00	53.88
204	401-5354-220.000.00	Retirement Contributions	28,540.16	41,721.00	68.41
118	401-5351-511.000.00	Safety Supplies	1,254.33	7,500.00	16.72
194	401-5352-511.000.00	Safety Supplies	4,527.24	5,000.00	90.54
221	401-5354-511.000.00	Safety Supplies	449.37	2,000.00	22.47
121	401-5351-520.002.00	Sludge Handling	911,372.73	1,092,350.00	83.43
141	401-5352-311.000.15	Solar Maintenance Contract	0.00	12,500.00	0.00
64	401-5130-432.001.00	Solid Waste	1,461.96	1,700.00	86.00
108	401-5351-432.001.00	Solid Waste	10,619.26	12,000.00	88.49
168	401-5352-432.001.00	Solid Waste	1,246.50	3,000.00	41.55
73	401-5130-491.000.00	Storm Supplies	0.00	2,000.00	0.00
115	401-5351-491.000.01	Storm Supplies & Preparation	0.00	2,000.00	0.00
191	401-5352-491.000.01	Storm Supplies & Preparation	0.00	2,000.00	0.00
223	401-5354-520.005.00	Supplies & Tools	19,792.82	20,000.00	98.96
124	401-5351-520.005.00	Supplies & Tools (plant operations)	9,767.00	18,000.00	54.26
196	401-5352-520.005.00	Supplies and Tools (field operations)	32,061.53	46,000.00	69.70
55	401-5130-410.000.05	Telephones / Data Comms	827.50	1,000.00	82.75
99	401-5351-410.000.05	Telephones / Data Comms	540.00	1,000.00	54.00
151	401-5352-410.000.05	Telephones / Data Comms	6,093.96	6,000.00	101.57
96	401-5351-400.000.00	Training, Education & Travel	5,188.04	2,500.00	207.52
148	401-5352-400.000.00	Training, Education & Travel	17,473.97	18,000.00	97.08
210	401-5354-400.000.00	Training, Education & Travel	11,914.13	10,000.00	119.14
27	401-5130-250.000.00	Unemployment Compensation	197.74	4,000.00	4.94
56	401-5130-410.000.07	VOIP	2,904.00	3,600.00	80.67
62	401-5130-430.000.00	Water (Utility)-District Office	476.71	700.00	68.10
165	401-5352-430.000.10	Water- Harborage	301.46	300.00	100.49
164	401-5352-430.000.09	Water- Humpty Dumpty	298.26	310.00	96.21
166	401-5352-430.000.12	Water- Peter Pan	303.59	300.00	101.20
106	401-5351-430.000.00	Water- Plant	6,890.74	5,500.00	125.29
157	401-5352-430.000.01	Water- Vac Station A	1,517.02	450.00	337.12
158	401-5352-430.000.02	Water- Vac Station D	984.09	550.00	178.93
159	401-5352-430.000.03	Water- Vac Station F	275.31	400.00	68.83
160	401-5352-430.000.04	Water- Vac Station G	330.56	400.00	82.64
161	401-5352-430.000.05	Water- Vac Station I - house	348.70	900.00	38.74
162	401-5352-430.000.06	Water- Vac Station I & Office	623.86	500.00	124.77
163	401-5352-430.000.07	Water- Vac Station JK	1,880.35	530.00	354.78
26	401-5130-240.000.00	Workers Compensation Insurance	1,108.92	1,400.00	79.21
89	401-5351-240.000.00	Workers Compensation Insurance	9,787.55	10,500.00	93.21
136	401-5352-240.000.00	Workers Compensation Insurance	27,148.63	25,600.00	106.05
207	401-5354-240.000.00	Workers Compensation Insurance	11,304.70	13,000.00	86.96

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

Meeting Date:
November 17, 2026

Agenda Item Number: M-1

Action Required:
No

Department:
Field Operations

Sponsor:
Rudy Perez

Subject:
Field Report - September 2026

Summary:
Mr. Perez will present the Field 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:** 11-12-26
General Manager

Wastewater Field Operations

There were a total of **24 service calls** for the month of **September** of these (**15) were system-generated alarms**, mostly by low vacuum detection at a vacuum station. The system-generated alarms were addressed quickly by the field staff of those **(10) systems generated** were found using the **(FVMS) Flo Vac Monitoring System**. The report shown below details the remaining **(9) customer calls**.

Date	Address	Incident	Response	KLWTD Issue
9/2/26	97270 Overseas Hwy	A customer called stating that they were experiencing backup difficulties.	Upon Field Techs' arrival on site, they noticed that the red light was on, but the buzzard was silenced. Upon opening the lid, they found the sump full, and pump unresponsive. Pump was replaced with a rebuild and the old one was turned in for service.	**YES**
9/8/26	127 2nd Ct	A Homeowner called in stating that they had a plumber on site and advised them to call KLWTD.	Upon field tech's arrival they found the pit to be overwhelmed. Pit was manually discharged to drain down the sump, when diagnosing the issue, they found that the surge suppressor was dirty. Once replacing the surge suppressor pit was simulated and put back in service. Homeowner was notified.	**YES**

9/13/26	99620 Overseas Hwy Domino's Pizza	Received a customer call stating that the store was experiencing back-up difficulties.	Upon field techs' arrival on site, they noticed that the customers clean-out was full. They then went to the district's clean out and found it to be dry. Pit was manually discharged and found that it was working accordingly in which the customer was notified and advised calling a plumber **(NOT A KLWTD ISSUE)**	**NO**
9/14/26	528 Sound Dr	A customer called in to notify us that they had a sewer odor in the home. Asked if a tech could come by and make sure that the system was working properly.	Upon Field Techs' arrival on site, Techs found no issue with the pit. Pit was simulated multiple times. Clean-out was opened and observed. They even pulled the in-sump breather to assure that the odor was not from the system. **(NO ODOR DETECTED)**	**NO**
9/19/26	45 Garden Cove Dr	We received a call from a customer who had backup difficulties in the bathroom.	Upon Field Techs' arrival on site, they opened the districts clean-out and found it to be dry. They also manually discharged pit and found that all was operational and components were intact. Customer was advised to call a plumber. **(NOT A KLWTD ISSUE)**	**NO**
9/21/26	344 Windley Rd	The customer called to report water coming up from the ground.	Upon Field Techs' arrival the area was observed, it was found that the issue was an FKAA problem not wastewater. **(NOT A KLWTD ISSUE)**	**NO**

9/22/26	101660 Overseas Hwy	The customer called in stating that there was alarm going off on our equipment.	Upon Field Techs' arrival, they found no alarm detected, they opened the lid to the sump and simulated it multiple times. The homeowner was present and notified that all was working as should. **(HOMEOWNER ISSUE)**	**NO**
9/28/26	5 Sexton Way	Received a call from a customer regarding their toilets gurgling and draining slowly.	Techs happened to be working in the area when they received the call. Vac Station A was having difficulties pumping out into the force-main causing the vacuum to deplete in the area. Once the station was back to normal the vacuum was restored. **(Homeowner was notified)**	**YES**
9/29/26	19 Al Cante Ln	Customers called in stating that their toilets and shower drains were slowly draining, they wanted someone to come out and observe the system.	Upon field tech's arrival, they noticed a large amount of water flowing into the pit. It was found that on the property next door that was under construction, the demo disconnect was broken by the builders. Contractor was notified and the repairs were made.	**NO**

(10) Area Addressed with the Flow Vac Monitoring System

Date	Address	Incident	Response	Issue Found
9/1/26	4 Hibiscus Ln	Received a low vacuum alarm call from Vac Station E	Field Tech isolated the tank valves to determine an area. Once determined they used the (FVMS) to find the issue.	**Bad Controller**
9/3/26	132 E Shores Dr	Received a Low vacuum alarm call from Vac Station E	Field Tech Isolated the tank valves to determine an area. Once determined they used the (FVMS)to find the issue.	**Bad Valve**
9/5/26	179 Ellis Dr	Received a low vacuum call from Vac Station D	Field tech isolated the tank valves to determine an area. Once determined they used the (FVMS) to find the issue.	**Debris in Valve**

9/12/26	6 Palm Dr & 31 Ave F	Received a low vacuum alarm call from Vac Stations D & A	Field tech isolated the tank valves to determine an area. Once determined they used the (FVMS) to find the issue.	**Bad Valve** **Bad Valve**
9/17/26	1029 Adams Dr	Received a low vacuum alarm call from Vac Station D	Field tech isolated the tank valves to determine an area. Once determined they used the (FVMS) to find the issue.	**Bad Valve**
9/19/26	21 Eagle Dr	Received a low vacuum alarm call from Vac Stations A	Field tech isolated the tank valves to determine an area. Once determined they used the (FVMS) to find the issue.	**Debris in Valve**
9/26/26	822 Egret Ln	Received a low vacuum alarm call from Vac Station D	Field tech isolated the tank valves to determine an area. Once determined they used the (FVMS) to find the issue.	**Bad Controller**

9/26/26	103965 Overseas Hwy	Received a low vacuum alarm call from Vac Station D	Field tech isolated the tank valves to determine an area. Once determined they used the (FVMS) to find the issue.	**Bad Controller**
9/27/26	531 Sound Dr	Received a low vacuum alarm call from Vac Station D	Field tech isolated the tank valves to determine an area. Once determined they used the (FVMS) to find the issue.	**Bad Controller**
9/29/26	102533 Overseas Hwy	Received a low vacuum alarm call from Vac Station D	Field tech isolated the tank valves to determine an area. Once determined they used the (FVMS) to find the issue.	**Bad Controller**

(5) System Generated Call-Out Not on the (FVMS)

9/13/26	325 Calusa St Lot # 366	Received a low vacuum alarm call from Vac Station E	Upon Field Techs' arrival MOD isolated the tank valves to an area. Further isolating, Tech isolated leaks into Calusa campgrounds.	**Bad Valve**
9/27/26	92431 Overseas Hwy	Received a high-level lockout from Vac Station G	Upon Field Techs' arrival they noticed that the sewer pumps were not pumping. It was noticed that one of the EQ hoses were clogged. Once clearing the debris from the EQ hose, techs were able to pump down the sewer tank.	**Clogged EQ**
9/29/26	101600 Overseas Hwy Keys Venture RV Park	Received a high-level call from the lift station.	Upon Field Techs' arrival they noticed that lift station level was high, they noticed that both pumps were pumping but were struggling with the high tied flows. Techs made some float adjustments to the lift station. Alarm was reset.	**Flow Issue**
9/29/26	325 Calusa St Lot # 224	Received a low vacuum alarm from Vac Station E	Upon Field Techs' arrival MOD isolated the tank valves to an area. Further isolating, Tech isolated leak into Calusa campgrounds.	**Bad Controller**
9/30/26	325 Calusa St Lot # 525	Received a low vacuum alarm from Vac Station E	Upon Field Techs' arrival MOD isolated the tank valves to an area. Further isolating, Tech isolated leaks into Calusa	**Bad Breather**

I & I Infiltration from the Private Side from 113 Oleander Circle





I & I Infiltration from the Private Side from 556 Gordon Circle

Broken Demo Disconnect









Installment of an Air Injection Pit (Part I)









Installment of an Air Injection Pit (Part II)







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

Meeting Date:
November 17, 2026

Agenda Item Number: O-1

Action Required:
No

Department:
Capital Projects

Sponsor:
Robert Mather

Subject:
Capital Projects Report - October 2026

Summary:
Mr. Mather will present the Capital Projects 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:** 11-12-26
General Manager

Key Largo Wastewater Treatment District Capital Projects Report

Including updates through October 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:**	$511,931.46 (15.3%)
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:**	**518 days** at **$1,000/day**
Contract Final Completion:	07/17/2025	**Total Liquidated Damages:**	**$518,000**

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.
- Reynolds and Benson Electric completed the installation of both the cast iron backwash pump and the soft starter during the attempted startup on October 27th.
- Startup of the effluent disc filter was attempted on October 27, 2026, but was unsuccessful due to bowing of the filter vessel walls, resulting in interference with the rotating disc cartridges. Additional issues with the filter gaskets were also identified and replacement gaskets have been delivered to the site.
- Evoqua proposed installing external steel angle reinforcement to straighten and support the affected vessel walls. The proposed repair was reviewed and approved as noted by Apex on October 30, 2026. Coordination is ongoing to establish a repair schedule and revised startup date.

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:	$9,082,691.75	**Engineering Paid to Date:**	$1,150,715.75 (12.2%)
Retainage Held?	Yes, 5%	**Project Completion:**	96%
Balance to Complete:	$382,039.11	**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

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 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.
- Coordination continued through September to review, approve, and procure the necessary materials. A portion of the required materials was delivered on August 27, with the remaining items delivered on September 14th.
- In mid-September, Flovac installed an additional gateway and concrete pole in Basin B (498 Sound Dr) to remedy connection issues with some modules in this Basin.
- The install continued through late October with 30/30 force main pressure monitoring modules being installed. Site restoration is the only remaining item that needs to be completed before the walkthrough can be scheduled.
- A final reconciliating order has been prepared and is under review. Flovac is scheduling the substantial completion walkthroughs with Apex, KLWTD, and their subcontractor.

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:**	$566,683.30 (17.6%)
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

Project Updates:

- 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.
- Pedro Falcon completed the required lightning protection mast extension in mid-September. The system has officially been certified with the modifications made to allow for the coverage of the high mast on the headworks.
- The Voltage Regulation Transformer (SureVolt) was delivered in 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 device was delivered on Monday, September 28th and has been placed in the ATS room awaiting final positioning.
- The Contractor coordinated a meeting with Larson Electric to review the identified deficiencies and obtain formal responses regarding equipment configuration, required clearances, maintenance accessibility, and proposed corrective measures. Apex is reviewing the manufacturer's responses to determine whether the equipment can be safely installed and maintained within the available electrical room space.
- Discussions with Larson focused on discrepancies between the previously confirmed equipment access requirements and the delivered configuration, particularly regarding the need for rear access to operate, inspect, reset, and maintain internal components, including the ACB and STS.
- Pedro Falcon, KLWTD, and APEX staff attended construction progress meetings on October 14th and 28th.

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:	$3,878,745.60	**Engineering Paid to Date:**	$366,100.75 (8.8%)
Retainage Held?	Yes, 5%	**Project Completion:**	93%
Balance to Complete:	$297,707.29	**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

Project Updates:

- 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 both Vacuum Station A and D.
- Contractor has completed installation of additional maintenance flanges at each Vacuum Station.
- Contractor has begun ordering materials for the Vacuum Station E belly tank replacement; Apex has reviewed the provided fabrication shop drawings and is coordinating with the Contractor to address remaining items.
- Apex is awaiting pricing from the Contractor to re-route odor control line at Vacuum Station E to the odor control tanks above grade to prevent identified ground water intrusion.
- The Contractor is addressing outstanding closeout items to complete the base bid scope of work.
- Belle Construction, KLWTD, and Apex staff attended a construction progress meeting on October 22nd, 2026.

Upcoming Capital Projects

EQ Tanks and Headworks Project (LPA0425)			
Expected Project Cost	$15,440,000	**Est. Design**	90%
Existing State Funds	$6,547,280	**Est. Design Completion**	Dec 2026
Funding Sources	FDEP Resilient Florida, Stewardship (LPA0425)	**Est. Construction Dates**	March 2027 – March 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. Coordination with CROM remains ongoing, and updated tank drawings reflecting the dual-tank configuration are expected soon for integration into the overall plan set. Coordination with equipment manufacturers and vendors, such as TSC Jacobs and Heyward, remains ongoing to finalize equipment selection for key components. Recent discussions among KLWTD, the Village of Islamorada, and Apex have focused on the proposed influent screening configuration. The original design included three influent screens, with one dedicated to Islamorada flows and two dedicated to KLWTD flows. An alternative is now being evaluated that would combine the Islamorada and KLWTD influent flows into a single force main feeding two influent channels. The design team is evaluating the cost and O&M impacts of this alternative. Additional coordination with the headworks screening manufacturer will be required to revise the configuration and finalize the proposed equipment. Evaluation of the existing electrical system remains ongoing, along with coordination of the electrical improvements necessary to support the proposed equipment and facility upgrades. Process and instrumentation design are continuing to progress. A response to FDEP's Request for Additional Information (RAI) for the ERP application has been submitted. Additionally, the final FDEP wastewater operating permit, which includes the permit modification for this project, has been issued and received by Apex and KLWTD.

Critical Systems Resilience and Mitigation Upgrades			
Expected Project Cost	$15,957,588	**Funding Sources**	FDEP Resilient Florida, Stewardship/ACOE
Existing State Funds	$7,978,794	**Est. Construction Dates**	Apr 2027 – Jun 2030

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 ongoing for Vacuum Station A and E. Resilient Florida Grant Staff have stated that the replacement of the tanks is eligible for grant funding. Grant work plans are being prepared.

Ductile Iron Pipe Rehabilitation Project: This project replaces ~4,200 linear ft of corroded ductile iron pipes at the Key Largo Wastewater Treatment Plant using corrosion resistant HDPE open-cut replacement. Resilient Florida Grant Staff have stated that the replacement of the ductile iron pipe is eligible for grant funding. Grant work plans are being prepared.

Floodproofing WWTP & Vacuum Stations: Project is in the conceptual design phase. Resilient Florida Grant Staff have stated that floodproofing is eligible for grant funding.

Power Conditioning at Vacuum Stations: Project is in the preliminary design phase. Resilient Florida Grant Staff have stated that the power conditioning at vacuum stations is eligible for grant funding.

Project Construction Photos





Figures 1 & 2: Disk Filter Cap Rubbing on the Internal Weld due to Deformed Metal





Figures 3 & 4: New SS FM tap on PVC & Testing of Pressure Sensor for Calibration



Figures 5 & 6: Voltage Regulation Transformer placed in ATS room awaiting final positioning

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

Meeting Date:

November 17, 2026

Agenda Item Number: O-2

Action Required:

No

Department:

Capital Projects

Sponsor:

Robert Mather

Subject:

Cost Comparison for KLWTD EQ Tanks and Headworks Project - Separate vs Combined Influent Screening

Summary of Discussion:

This item is intended to provide a basis for discussion regarding the capital costs, O&M costs, and R&R costs associated with the KLWTD EQ Tanks and Headworks project when considering separated vs combined influent screening for the Village of Islamorada's influent.

Reviewed / Approved		Financial Impact	Attachments
Operations:	_____	$ 0.00	1. KLWTD EQ Tanks Cost Comparison Memo
Administration:	_____		
Finance:	_____	Funding Source:	
District Counsel:	_____	N/A	
District Clerk:	_____	Budgeted:	
Engineering:	_____	N/A	

Approved By: _____ **Date:** 11-12-26

General Manager

Memorandum

Date: November 11, 2026

To: Peter Rosasco, General Manager

From: Robert Mather, P.E., Project Manager

Regarding: Cost Comparison for KLWTD EQ Tanks and Headworks Project – Separated vs Combined Influent Screening

This memorandum summarizes the basis for the proposed change from separate to combined influent screening and the cost comparison in response to Board questions.

Executive Summary

In terms of capital project costs, changing to a combined influent screening approach would reduce the estimated EQ Tanks and Headworks cost from $16.67 million to $15.75 million, providing approximately $919,120 in total project savings. The cost savings to Islamorada is roughly $461,000, while the cost savings to the District is roughly $458,000.

Estimated Project Cost			
Cost measure	**Option 1 (Combined Screening)**	**Option 2 (Separate Screening)**	**Savings with combined screening**
Total project cost	$15,753,585	$16,672,705	$919,120
IVOI share of total project cost	$4,372,740	$4,834,212	$461,472

Combined screening reduces the estimated average annual headworks O&M and R&R costs from $196,412 to $136,961. The resulting annual savings are approximately $34,963 for KLWTD and $24,488 for IVOI. The principal tradeoff is reduced flexibility to address future changes in IVOI's influent characteristics. If IVOI delivers finer solids requiring smaller screen openings, combined screening would require those changes to apply to the shared equipment handling both entities' flows.

15-Year Average Annual Headworks O&M Cost and Capital R&R Costs						
Cost per year	**Option 1 · Combined Screening**			**Option 2 · Separate Screening**		
	KLWTD	**Islamorada**	**Total**	**KLWTD**	**Islamorada**	**Total**
Equipment maintenance	$11,983.11	$5,639.11	$17,622.22	$17,622.22	$8,811.11	$26,433.33
Operator labor	$5,584.50	$2,628.00	$8,212.50	$8,376.75	$3,942.00	$12,318.75
Hauling and disposal	$18,418.67	$8,667.61	$27,086.28	$18,057.60	$13,542.84	$31,600.44
Annual Average O&M	**$35,986.28**	**$16,934.72**	**$52,921.00**	**$44,056.57**	**$26,295.95**	**$70,352.52**
Capital R&R	$57,146.89	$26,892.65	$84,039.54	$84,039.54	$42,019.77	$126,059.31
Total O&M + R&R	**$93,133.17**	**$43,827.37**	**$136,960.54**	**$128,096.11**	**$68,315.72**	**$196,411.83**

Background

On October 6th, 2026, Apex held a project design meeting attended by Peter Rosasco, Commissioner Schwartz, Ryan Dempsey, and Apex staff. The discussion included the original basis for providing separate screening facilities for Islamorada, Village of Islands (IVOI), and whether that arrangement remained warranted given the current understanding of IVOI's North Plantation Key Booster Pump Station improvements.

The original headworks design included a dedicated IVOI influent line, screen, compactor, conveyor, and dumpster to keep IVOI screenings separate from KLWTD screenings. This arrangement was developed with the understanding that IVOI would no longer utilize its existing equalization tank and associated screening facilities, and would be installing macerators and grinder pumps as part of its booster pump station project. The anticipated use of macerators influenced the proposed fine-screening approach and raised concerns regarding increased screenings handling and disposal costs. Maintaining separate screenings streams would allow those costs to be assigned to each entity based on its actual disposal quantities and expenses. It also addresses the issue of if IVOI decides to grind influent up to very fine particles.

At the October 6th project meeting, the project team discussed the current status of IVOI's project, which no longer includes macerators. With that change, combining the influent streams upstream of the headworks was considered as an opportunity to simplify the yard piping, reduce the amount of screening related equipment, and overall O&M efforts and costs. Potential reductions in costs were discussed as a factor that could benefit both KLWTD and IVOI. From an engineering standpoint, the design is feasible using either arrangement. Apex received direction to proceed with revisions removing the separated influent line and screening components.

At the October 20th, 2026 KLWTD Board Meeting, Apex reported on the progress of the EQ Tanks and Headworks project design, including discussion regarding revisions that are in progress due to the requested change to the influent yard piping and screening. Chairman Rodriguez requested to see a breakdown of the capital costs associated with retaining separated influent screening, versus combining influent streams and removing the separated equipment.

The attachment to this memorandum contains the cost comparison associated with the requested revisions to the project design.

Construction Cost Comparison

As described above, there are two proposed influent conveyance and screening configurations being evaluated. For this memorandum we will be addressing the different configurations as Option 1 and Option 2. Option 1 combines the influent streams prior to the proposed headworks and uses two shared screening trains and a shared conveyor system to dispose of collected waste, while Option 2 separates IVOI's influent and disposal completely from Key Largos influent.

Table 1 below shows the total project cost for each screening configuration, including IVOI's share and the estimated savings from combined screening. The totals include engineering and contingency.

Table 1. Estimated Project Cost			
Cost measure	**Option 1 (Combined Screening)**	**Option 2 (Separate Screening)**	**Savings with combined screening**
Total project cost	$15,753,585	$16,672,705	$919,120
IVOI share of total project cost	$4,372,740	$4,834,212	$461,472

The difference between the two options costs is primarily driven by the dedicated infrastructure required to keep IVOI's influent separate through screening. Option 2 includes a separate 12-inch influent line, associated isolation valves and headworks slide gates, and a third center-flow screen with an integral washer-compactor and dedicated conveyor. Option 1 combines the influent streams upstream of the headworks, allowing both entities to share two screening trains and a common conveyor. This reduces the quantities of piping, valves, and screening equipment. IVOI's allocated cost is higher under Option 2 because it pays the full cost of the infrastructure dedicated to its flow. Under Option 1, IVOI pays 32% of the shared influent and screening components. Refer to Attachment A for the detailed construction estimate and cost allocations.

Headworks Operation & Maintenance Cost

To determine the estimated annual operation and maintenance (O&M) costs associated with the headworks equipment, the Hydro-Dyne budgetary proposal was used as the equipment cost basis. The proposal includes three center-flow screens with integral washer-compactors and two conveyors at a total budget cost of $1,525,000. For this comparison, a 15-year equipment service life was assumed, and the package cost was divided equally among the three screening trains, resulting in an estimated cost of approximately $508,333 per train.

Equipment Maintenance

The maintenance allowance covers labor and parts for routine inspections, cleaning, drive servicing, and replacement of worn components. The estimate assumes annual maintenance rates of 0% of equipment cost in Years 1–3, 0.5% in Years 4–5, 1% in Years 6–8, 1.5% in Years 9–10, 3% in Years 11–13, and 5% in Years 14–15. Over 15 years, the allowance averages 1.733% of equipment cost, or $8,811.11 per train per year.
Under Option 1, KLWTD and IVOI pay 68% and 32% of the two shared trains' maintenance costs, respectively. Under Option 2, KLWTD pays for maintenance of its two trains and IVOI pays for maintenance of its dedicated train. Refer to Table 2 for the 15-year estimated average annual maintenance costs under both scenarios.

Table 2. 15-Year Estimated Average Annual Headworks Maintenance Cost						
Cost per year	**Option 1 · Combined Screening**			**Option 2 · Separate Screening**		
	KLWTD	**Islamorada**	**Total**	**KLWTD**	**Islamorada**	**Total**
Equipment maintenance	$11,983.11	$5,639.11	$17,622.22	$17,622.22	$8,811.11	$26,433.33

Operator Labor

Daily operator checks are budgeted at 30 minutes for Option 1 and 45 minutes for Option 2. At $45 per hour for 365 days, annual labor is estimated at $8,212.50 and $12,318.75, respectively. KLWTD and IVOI pay 68% and 32% of labor under both options. Refer to Table 3 for the estimated labor costs associated with operations and maintenance under each scenario.

Table 3. 15-Year Estimated Average Annual Headworks Labor Cost						
Cost per year	Option 1 · Combined Screening			Option 2 · Separate Screening		
	KLWTD	Islamorada	Total	KLWTD	Islamorada	Total
Operator labor	$5,584.50	$2,628.00	$8,212.50	$8,376.75	$3,942.00	$12,318.75

Dumpster Hauling Costs

The hauling and disposal estimates were developed using the Keys Sanitary Service commercial rates (effective October 1, 2026, through September 30, 2027) for scheduled service at three (3) pickups per week. The monthly rate depends on dumpster size, so the dumpsters were sized to hold the screenings expected to accumulate during a three-day interval between pickups. Under Option 1, KLWTD's permitted flow of 3.45 MGD was used. Under Option 2, the highest observed daily flow from the past year of flow data was used for both KLWTD and IVOI. Using these assumed influent flows, screenings volumes for the proposed 3 mm screens were estimated at 35 cubic feet per million gallons under high loading. The calculated volumes were reduced by 60% to account for compaction and converted to cubic yards. The cost for each service is based on the smallest dumpster listed in the Keys Sanitary Services' rate schedule that can hold the compacted screenings under higher loading. Table 4 below summarizes the estimated hauling and disposals costs basis between the two screening configurations for both KLWTD and IVOI.

Table 4. Headworks Hauling & Disposal Cost Basis						
Sizing & Cost Basis	Option 1 · Combined Screening*			Option 2 · Separate Screening		
	KLWTD	Islamorada	Total	KLWTD	Islamorada	Total
Assumed influent flow (MGD)	-	-	3.45	2.20	1.25	3.45
High compacted volume over three-days (CY)	-	-	5.37	3.42	1.95	5.37
Selected dumpster capacity (CY)	-	-	6	4	3	-
Scheduled pickups per week	-	-	3	3	3	-
Monthly service charge	$1,534.89	$722.30	$2,257.19	$1,504.80	$1,128.57	$2,633.37
Annual Service Charge	**$18,418.67**	**$8,667.61**	**$27,086.28**	**$18,057.60**	**$13,542.84**	**$31,600.44**

Under Option 1, the monthly charge for the shared dumpster is allocated 68% to KLWTD and 32% to IVOI, and each share is annualized over 12 months. The District also may consider billing Islamorada for their screenings based on actual flow proportion. Under Option 2, each party pays for its dedicated dumpster.

Overall O&M and Capital R&R Estimated Costs

The capital repair and replacement (R&R) reserve is a budgeting allowance for future equipment replacement, separate from routine O&M costs. The first-year contribution is calculated by dividing the estimated equipment cost of $508,333 per screening train by the assumed 15-year service life, resulting in $33,889 per train. Annual contributions then increase by 3% each year. Over the 15-year period, the reserve contribution averages $42,019.77 per train annually, totaling $84,039.54 for the two-train combined screening option and $126,059.31 for the three-train separate screening option. Table 5 below combines the cost estimates above and incorporates a capital R&R reserve funding component.

Table 5. 15-Year Average Annual Headworks O&M Cost and Capital R&R Costs

Cost per year	Option 1 · Combined Screening			Option 2 · Separate Screening		
	KLWTD	Islamorada	Total	KLWTD	Islamorada	Total
Equipment maintenance	$11,983.11	$5,639.11	$17,622.22	$17,622.22	$8,811.11	$26,433.33
Operator labor	$5,584.50	$2,628.00	$8,212.50	$8,376.75	$3,942.00	$12,318.75
Hauling and disposal	$18,418.67	$8,667.61	$27,086.28	$18,057.60	$13,542.84	$31,600.44
Annual Average O&M	**$35,986.28**	**$16,934.72**	**$52,921.00**	**$44,056.57**	**$26,295.95**	**$70,352.52**
Capital R&R	$57,146.89	$26,892.65	$84,039.54	$84,039.54	$42,019.77	$126,059.31
Total O&M + R&R	**$93,133.17**	**$43,827.37**	**$136,960.54**	**$128,096.11**	**$68,315.72**	**$196,411.83**

The combined screening option reduces estimated average annual O&M and R&R by $59,451.29, including $34,962.94 for KLWTD and $24,488.35 for IVOI. The savings reflect one fewer train to maintain and less time for daily operator checks.

Attachment(s):

- KLWTD EQ Tanks and Headworks Cost Estimate Comparison

Attachment A - Cost Comparison

Option Descriptions

OPTION 1 — COMBINED INFLUENT / TWO SCREENS:

KLWTD and Islamorada influent flows are combined upstream of the proposed headworks and conveyed through a common 18-inch influent pipeline. The combined flow enters two influent channels, each with a mechanical screen. The designated cost-sharing percentage is applied to applicable common project components, including shared influent piping, valves, screening, equalization tanks, blowers, pumps, odor control, and other shared infrastructure.

OPTION 2 — SEPARATE ISLAMORADA INFLUENT / THREE SCREENS:

Islamorada influent is conveyed through its own 12-inch pipeline into a dedicated influent channel with a separate mechanical screen and washer-compactor. KLWTD influent is conveyed to the other two screening channels. Islamorada pays 100% of infrastructure dedicated exclusively to its influent system (including associated piping, valves, screening and washer-compactor). The designated cost-sharing percentage applies only to common downstream/shared project components such as equalization tanks, blowers, pumps, odor control and other shared facilities.

Overall Estimated Project Cost

	Option 1	Option 2	Difference
Total Project Cost	**$ 15,753,585.20**	**$ 16,672,705.20**	**$ 919,120.00**
IVOI Cost Share	**$ 4,372,739.58**	**$ 4,834,211.58**	**$ 461,472.00**

Total Project Cost - All Project Components

Project Section	Option 1	Option 2	Difference
Yard Piping	$ 1,780,845.00	$ 2,023,445.00	$ 242,600.00
Headworks	$ 1,531,666.67	$ 2,055,000.00	$ 523,333.33
Tanks	$ 5,490,000.00	$ 5,490,000.00	$ -
Pump System	$ 604,600.00	$ 604,600.00	$ -
Aeration	$ 1,596,876.00	$ 1,596,876.00	$ -
Odor Control	$ 961,900.00	$ 961,900.00	$ -
Mechanical Building & Electrical	$ 622,500.00	$ 622,500.00	$ -
Civil Site Work	$ 539,600.00	$ 539,600.00	$ -
Construction Subtotal	**$ 13,127,987.67**	**$ 13,893,921.00**	**$ 765,933.33**
Total Project Cost (Including E&C)	**$ 15,753,585.20**	**$ 16,672,705.20**	**$ 919,120.00**

Islamorada Village of Islands Allocated Costs

Project Section	Option 1	Option 2	Difference
Yard Piping	$ 448,736.00	$ 644,296.00	$ 195,560.00
Headworks	$ 490,133.33	$ 679,133.33	$ 189,000.00
Tanks	$ 1,660,800.00	$ 1,660,800.00	$ -
Pump System	$ 193,472.00	$ 193,472.00	$ -
Aeration	$ 511,000.32	$ 511,000.32	$ -
Odor Control	$ 307,808.00	$ 307,808.00	$ -
Mechanical Building & Electrical	Not Allocated	Not Allocated	$ -
Civil Site Work	$ 32,000.00	$ 32,000.00	$ -
Construction Subtotal	**$ 3,643,949.65**	**$ 4,028,509.65**	**$ 384,560.00**
Total Project Cost (Including E&C)	**$ 4,372,739.58**	**$ 4,834,211.58**	**$ 461,472.00**