



# The Department of Environmental Services Quarterly Report 3<sup>rd</sup> Quarter of FY2022-23



*"Committed every day to building a better community through reliable infrastructure and exceptional service."*

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**Randy J. Coslow, P.E.**  
**City Engineer & Director of Environmental Services**

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# PUBLIC WORKS PROJECTS/ACTIVITIES

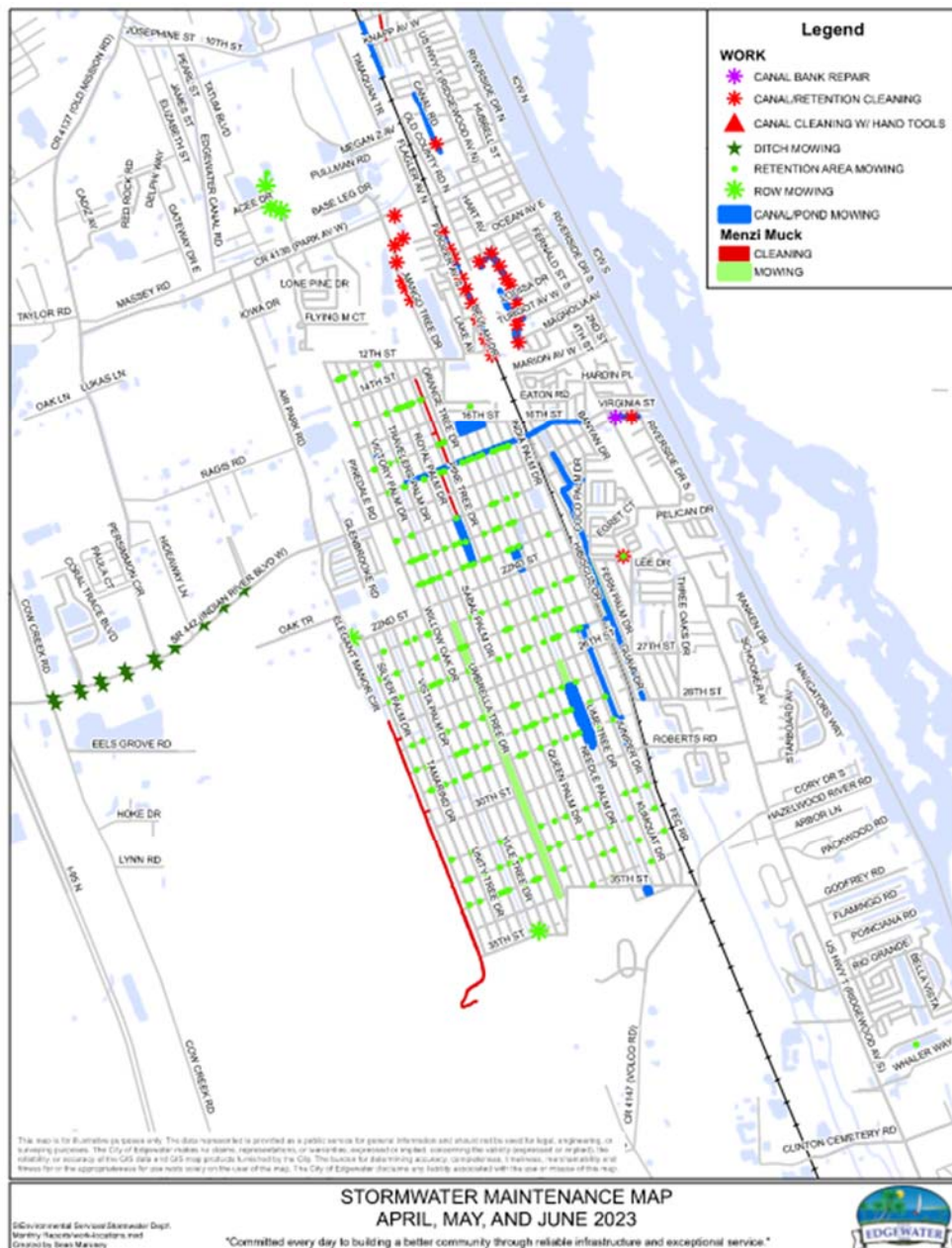
## Stormwater Maintenance Activities

### Background

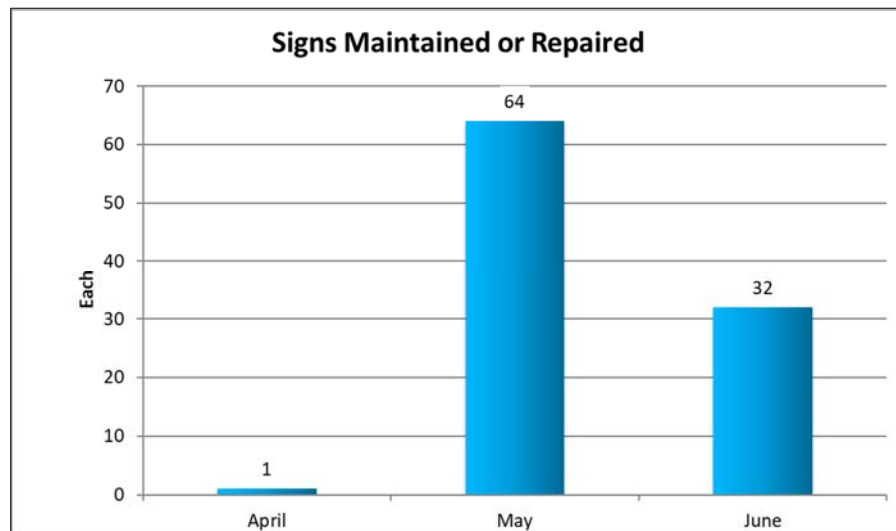
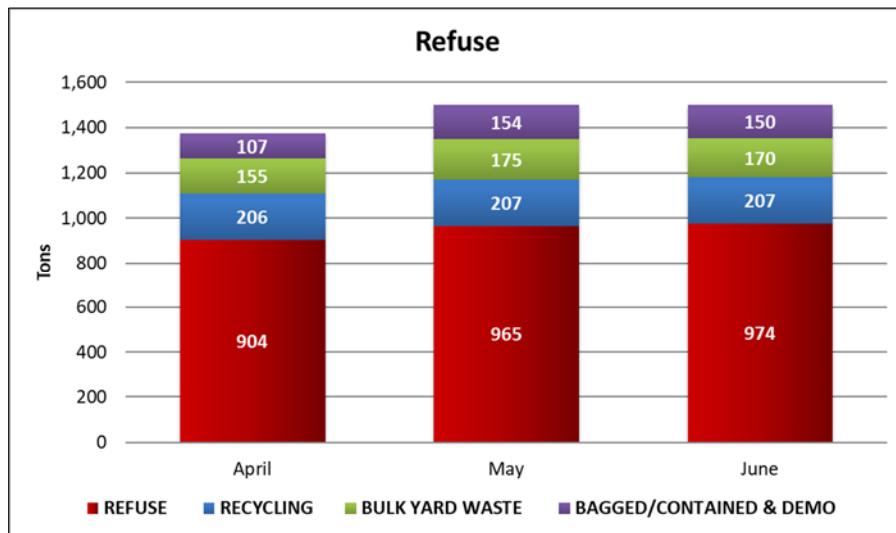
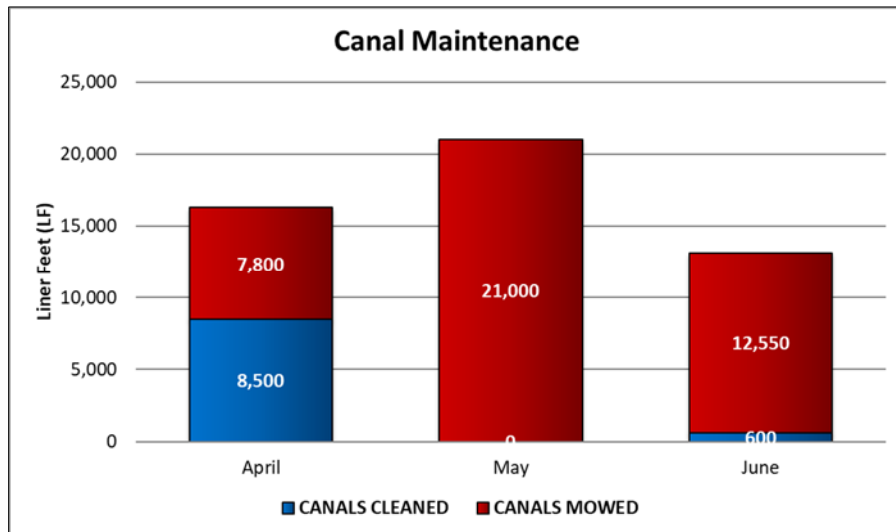
The City of Edgewater is home to a complex network of canals that serve as a vital component of the drainage system for the community. Proper canal maintenance is essential to ensure the waterways remain safe and functional.

Canals are an essential component of Edgewater's infrastructure. They provide an efficient means of managing stormwater runoff, which is especially important in Florida's wet climate. By directing excess water away from residential areas and roads, canals help prevent flooding and reduce the risk of property damage.

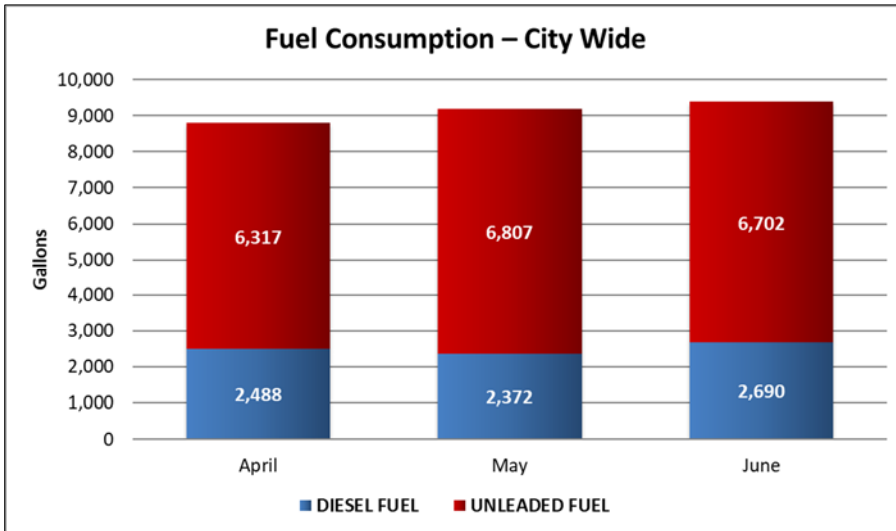
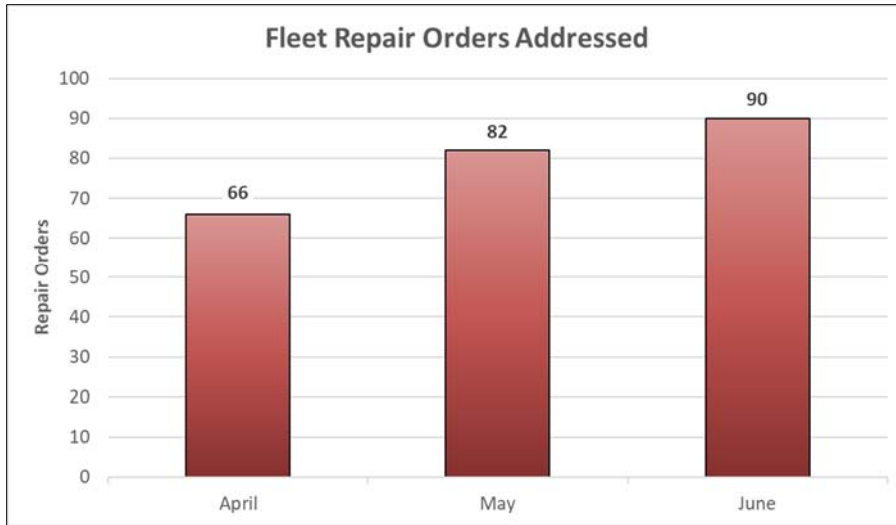
The maintenance activities represented below were carried out and completed by the Public Works Division in the third quarter of FY2022-23.



**Key Performance Indicators (KPI)**



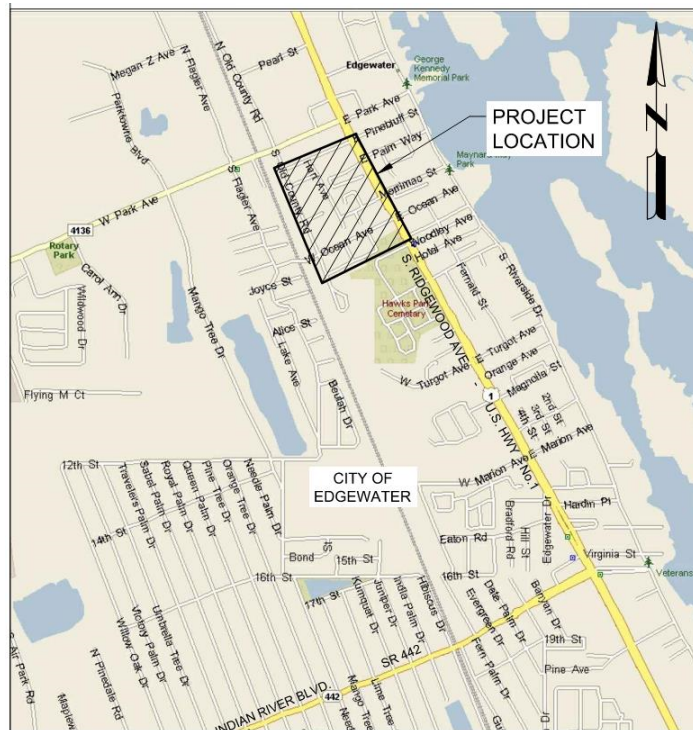
**Note:** In April, the resources allocated for sign maintenance were focused on carrying out tree trimming and maintenance tasks.



**Hart Avenue Stormwater Project**

**Background**

This project is intended to acquire a home that experiences repetitive flooding and reroute the stormwater piping along Hart Avenue, alleviating the flooding issues along the canal easement. Additionally, the project will upgrade water service to residents in the area.



**Financial**

- Estimated Project Costs-
  - Mead & Hunt- project design - \$135,700
  - Fred Fox- grant administration - \$144,000
  - Inlet Title- 405 Hart Ave. and easement acquisition - \$205,800
  - CPH- CEI services - \$229,700
  - Mead & Hunt- engineer of record services - \$12,900
  - GPS- Construction - \$3,030,300
- Grants-
  - The Florida Department of Economic Opportunity (FDEO) executed the agreement for the Community Development Block Grant Program-DR (Hurricane Irma) for \$1,821,734
  - HMGP Grant - Phase I of house acquisition - \$22,500

**Status**

- The project’s notice to proceed was issued on December 1, 2023
- Bi-monthly status meetings are being held
- All new water lines within the project boundaries have been installed
- The project’s completion date is estimated to be August 28, 2023, barring any unforeseen delays

**G-2 and G-11 Canal Improvements Project**

**Background**

The Florida Department of Economic Opportunity (FDEO) opened up a second cycle of the Community Development Block Grant Disaster Recovery (CDBG-DR) program for infrastructure



improvements related to damages from Hurricane Irma.

On June 30, 2020, the City applied for \$14.7 million grant funding for a project to 1) prevent storm surges from the Indian River from traveling back up the canal and flooding homes, 2) construct stormwater pump stations to reduce flood stages between US-1 and the railroad tracks between 10th Street and Marion Avenue, 3) construct additional stormwater storage ponds along the G-2 and G-11 canals, and 4) acquire a frequently flooded property on Cheeta Drive to convert to a stormwater pond.

#### **Financial**

- Mead & Hunt - Conceptual Design for DEO Application - \$12,944
- Notice of Intent to Award letter was received from DEO on January 22, 2021, for \$14,697,665

#### **Status**

- A contract for Grant Administration was awarded to Fred Fox and Associates
- A contract for project Design and CEI services was awarded to Mead & Hunt at the February Council meeting as the most qualified firm
- City Council accepted the qualifications-based selection process for the engineering design and CEI Services at their February 6, 2023 meeting, authorizing staff to begin scope-and-fee negotiations with Mead & Hunt, Inc.
- On June 23, 2023, the staff held a meeting with the project team of Mead & Hunt Inc. to discuss their seven-task project scope. One of the tasks, Task 6, involves public involvement and stakeholder coordination. To gather input and solutions within the project limits, a public town hall-style meeting is scheduled on August 14, 2023, to address flooding areas

### **Cheeta Drive Stormwater Project**

#### **Background**

City staff applied for a grant through the Hazard Mitigation Grant Program (HMGP) to acquire a house at 125 Cheeta Drive, due to historical repetitive flooding. In addition, the City intends to demolish the house and construct a stormwater pond on the property to assist with flooding in the surrounding area. This project will be completed in conjunction with the G-2 and G-11 Canal Improvements Project.

Phase 1 includes surveying, engineering, design, plan preparation, permitting, and bidding.

#### **Financial**

- HMGP Grant - \$19,387.50
- Stormwater Fund - \$6,462.50

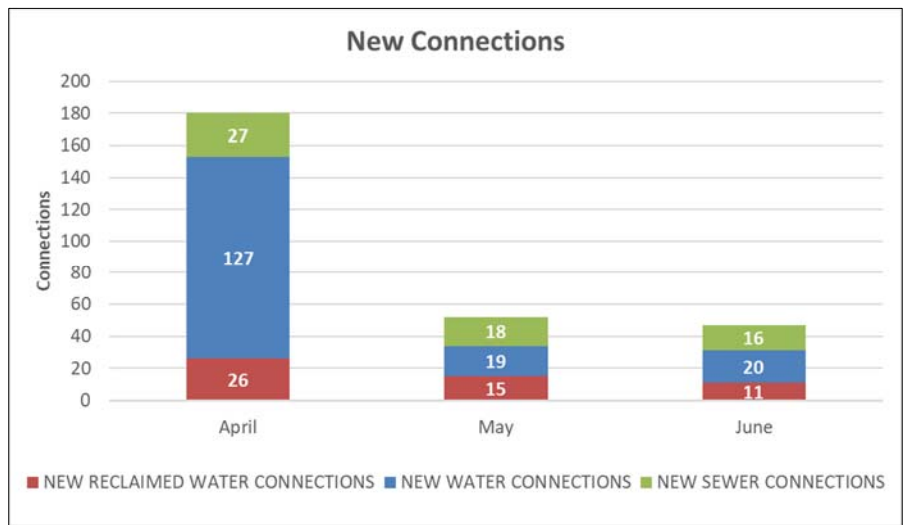
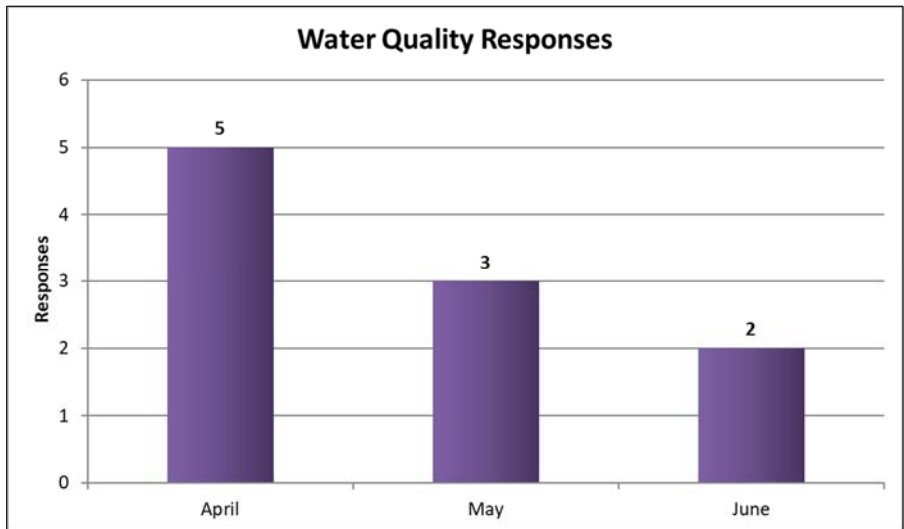
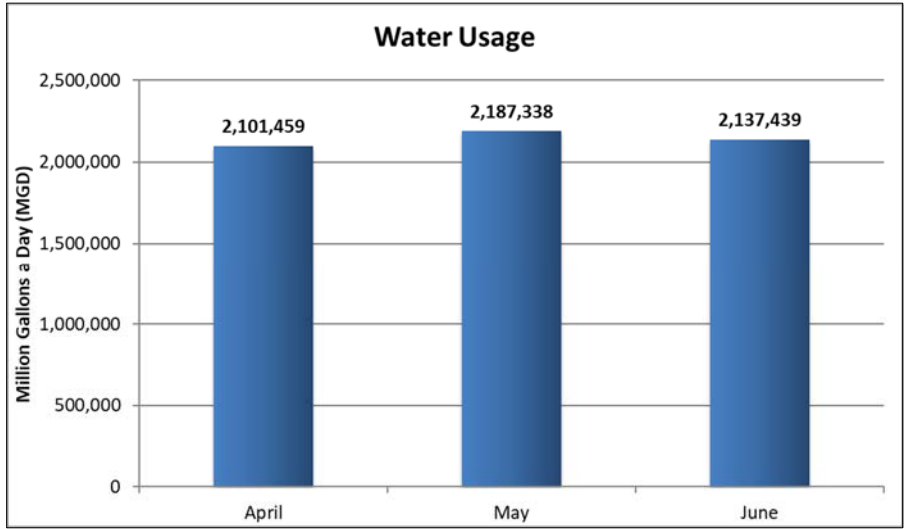
#### **Status**

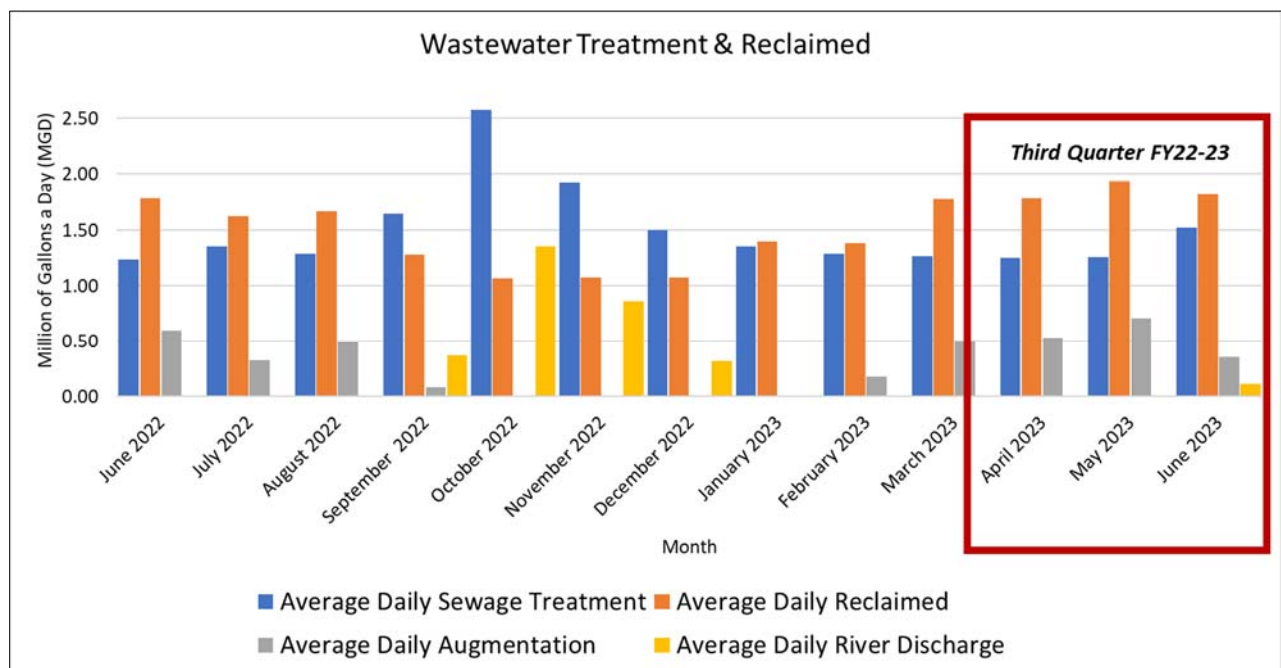
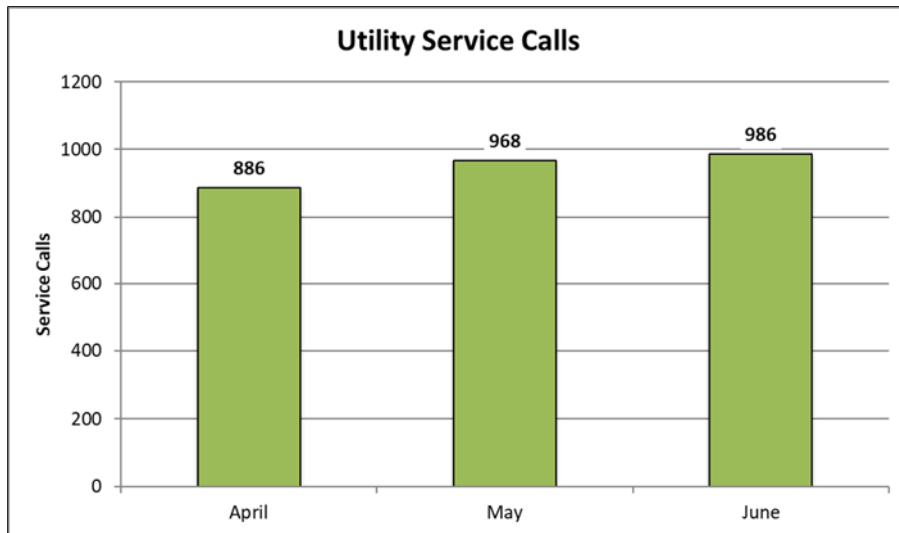
- Department staff continues to work with HMGP Program Manager related to budget modification and additional requests for information.

*No new information for this quarter*

## UTILITIES PROJECTS/ACTIVITIES

### Key Performance Indicators (KPI)





**Two-Inch Galvanized Water Line Replacement Program**

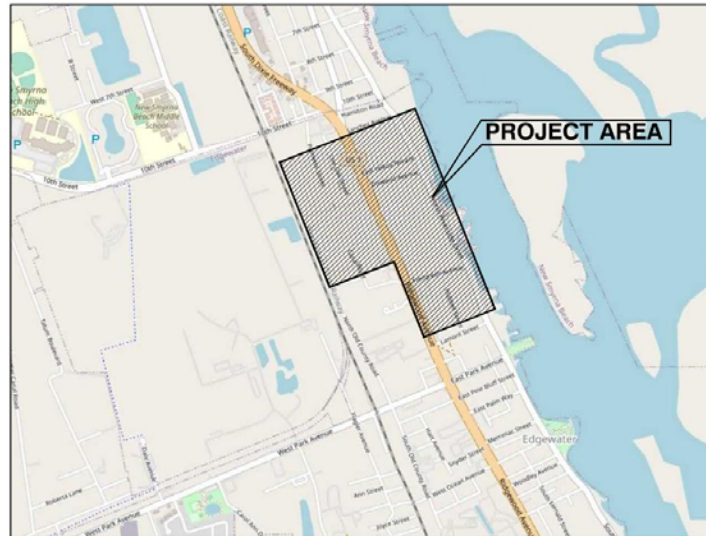
**Background**

The City owns approximately 15 miles of galvanized two-inch water lines. These galvanized lines were installed in the early 1960s and are at the end of their useful life.

In February 2020, a proposal was requested from one of the City’s continuing consultants, Half Associates, Inc., for surveying and engineering design, permitting, the preparation of bid documents, as well as project and construction administration to create a project for a two-inch water line replacement.

ThadCon LLC was awarded the project construction contract during the March 7, 2022, City Council meeting following a competitive bid process, as they were the lowest responsive bidder.



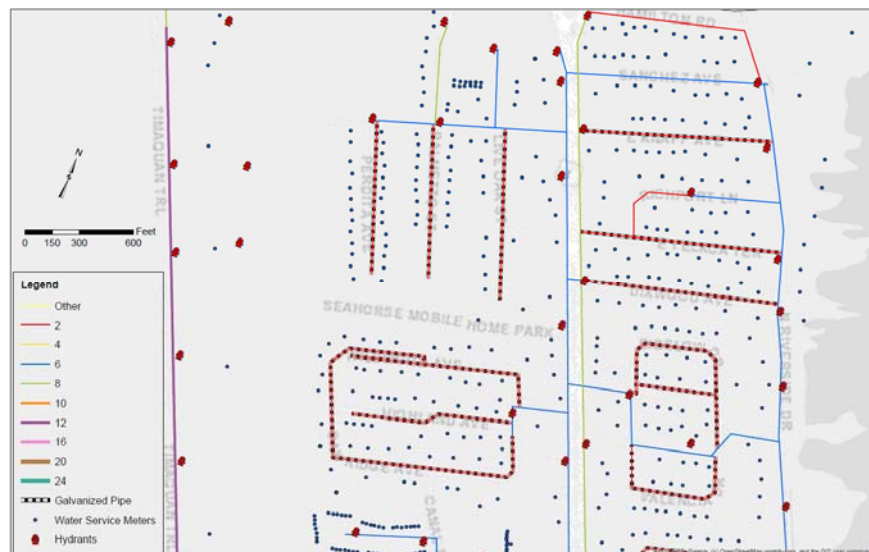


**Financial**

- Halff Associates, Inc. - Design Engineer - \$125,620
- FY2022 Construction Funding - \$1,029,200
  - ThadCon LLC – Construction - \$1,040,020 original contract amount

**Status**

- Construction of 2.1 miles of replacement and upgrades began in June 2022



- The contractor will be sending samples for the water lines West of US 1 to the FDOH during the first portion of the fourth quarter of FY22-23. After clearance from the FDOH, these assets will be deemed suitable for connection to the residents and placed in service
- Of the 269 services within the project limits, City staff have made 64 new connections, or approximately 24% of the total.
- It is estimated that the project will be finished in the middle of the fourth quarter of FY22-23. The scope of work includes repairing the driveway and restoring other areas as necessary

### **Lift Station #11 Rehabilitation (adjacent to 1950 W. Park Ave)**

#### **Background**

The construction of Lift Station #11, situated at 3 Wildwood Dr., dates back to the late 1970s. Although some of its components and the pump have been replaced over the past six decades, the station has surpassed its expected lifespan, making it necessary to undergo a complete refurbishment. As part of this renovation, a diesel-driven bypass pump will be installed to ensure uninterrupted station operation during power outages.

#### **Financial**

- Mead & Hunt – Design Engineer - \$55,153
- Estimated Construction cost - \$472,450

#### **Status**

- City Council awarded the design project at the May 2, 2022, City Council meeting
- The City has received 90% Design drawings and reviewed them with comments. They have been resubmitted to the Engineering firm for final changes
- The Department anticipates receiving bid-ready plans and documents to be delivered from the consultant in the fourth quarter of FY22-23

### **Park Avenue Booster Pump Station**

#### **Background**

The objective of this project is to enhance the existing Park Avenue Booster pump station, which is situated at the site of the former Park Avenue Water Treatment Plant (WTP) in the City of Edgewater. This new pump station will be a replacement for the current high-service pump station, which is the only functional component of the old Park Ave WTP that remains in use after the current water treatment plant was constructed in 1993. The plan for this project involves demolishing all existing WTP buildings and their components situated to the east of the storage tank. A new pump station, building, will be installed directly west of the existing storage tank, featuring three (3) high-service pumps. Once the new pump station is fully operational, the old pump station can be taken offline and demolished. The outcome of this project will be a new and improved pump station while also creating open space to the east of the ground storage tank for the future needs of the City.

#### **Financial**

- Mead & Hunt - Design Engineer Cost - \$183,873

#### **Status**

- The City has received 90% Design drawings and reviewed them with comments. They have been resubmitted to the Engineering firm for final changes
- The Department anticipates receiving bid-ready plans and documents to be delivered from the consultant in the fourth quarter of FY22-23

## **Park Ave water main relocation**

### **Background**

Kimley-Horn and Associates have been hired by the City of Edgewater to provide design services for the replacement of the 6-inch water main along the western ROW of US-1 at the Park Avenue intersection. The intersection of Park Ave. and US-1 is the location of a roadway expansion project being undertaken by the Florida Department of Transportation (FDOT), where the existing 6-inch water main and two corresponding valves conflict with the proposed FDOT infrastructure. Kimley-Horn's responsibility is to design the removal and replacement of the current 6-inch water main and valves located in the intersection and along US-1.

Upon further investigation, it was determined most appropriate to expand the scope to replace all water mains in the US-1 right-of-way at the Park Ave. intersection with a new 12-inch water main installed along Whetzel St., Western Ave., and Wilkinson Ave.

### **Financial**

- Kimley-Horn-Design Engineer Cost - \$18,500
- Kimley-Horn and Associates, Inc. - Additional Engineering - \$55,000
- GPS Civil Construction, Inc.- Construction Cost - \$664,550

### **Status**

- A motion was made and approved to award and authorize the City Manager to enter into an agreement with GPS Civil Construction, Inc., for the construction of the Main Replacement Project
- A motion was made and approved to award and authorize the City Manager to enter into an agreement with Kimley-Horn and Associates, Inc. for providing construction phase engineering services related to the project

## **Meter Replacement Program**

### **Background**

This multi-year project provides real-time data for staff and ultimately customers to view consumption and find leaks in a timely manner.

### **Status**

- New iPERL water meters and transmitters are being installed over the next several years.
  - Meters left to be installed – Approximately 4,000
  - Transmitters left to be installed 7,000
- Meters are being installed – Approximately 3,900 iPERL Meters were installed before the antenna installation that will need the transmitters replaced
- Over 4,200 accounts are now fitted with transmitters and/or new meters. While this is very time-consuming, staff has determined that the best route to take is to continue using in-house staff to retrofit these water connections
- Material delays have impacted the availability of water meters. The City is awaiting delivery of over (520)- Smart Point Transmitters, (1,948)- ¾" iPERL Meters, and (1)- 4" Omni Meter. Staff must ensure that sufficient meters are available for new construction as well as to continue

progress on the replacement program

- Supply chain issues continue to slow the delivery of meters and MXU Transmitters. This is an industry-wide issue and is not unique to only this vendor and supplier

### **Sewer Lining FY 2022-2023**

#### **Background**

The project aims to reduce the amount of influent ground and stormwater entering into the clay sewer mains and laterals that cause unnecessary water treatment costs.

#### **Financial**

- This is an ARPA-funded project with matching city dollars added
  - Miller Pipeline- \$1,486,800
  - LMR Construction- \$1,017,268

#### **Status**

- Bids were awarded to contractors in August 2022
- The preconstruction meeting with LMR was held on December 12, 2022
- LMR has completed 100% of the lining of the selected main lines



- Miller and subcontractor LMK were issued their notice to proceed with a date of March 1, 2023
- Miller has completed approximately 95% of their efforts associated with the project and is estimated to be completed during the fourth quarter of FY22-23

## ADMINISTRATIVE PROJECTS/ACTIVITIES

### **Public Works Facility**

#### **Background**

The city acquired property at the north end of Dale Street in the Parktowne Industrial Park for \$1,200,000 on January 16, 2015.

The city sold 16.88 acres to Northwest Lineman College for \$381,488.00 on June 28, 2016.

FDOT funded the construction of a segment of the SunTrail network along the western and northern property lines of this City parcel in 2016, being a part of the Coast-to-Coast Connector network and the St Johns River-to-Sea Loop network of Showcase Trails.

A 2-acre reclaimed water storage pond was constructed in 2020 to reduce reliance on the City's River discharge.

#### **Financial**

- Schenkel Shultz Architecture
  - \$350,000 – Phase I – Planning and Schematic Design
  - \$1,640,000 – Phase 2 – Architectural, interior design, civil, structural, landscape, irrigation, land surveying, environmental engineering, mechanical electrical, plumbing, fire protection, security and communications, and grant coordination

#### **Status**

- Facility design has achieved 90%, however, a construction management firm has not been added to the project team in light of the current escalation in construction pricing
- Department staff in cooperation with the project's design engineer has crafted a phased project strategy. Phase I addresses current critical operational needs or approximately 25% of the total project. Phase II will address the remainder of the project's proposed operational needs
- City staff continues to coordinate and work with the design consultant toward the development of 100% plans for Phase I. During the third quarter, all appropriate permits were filled with FDEP and the SJRWMD

### **Trail – Oak Hill to West Park Avenue**

#### **Background**

FDOT has completed a Project Development & Environment (PD&E) Study for a St. Johns River to Sea Loop trail route from US 1 and Kennedy Parkway to Dale Street. The City will partner with FDOT and hire a consultant engineer to design the trail from Roberts Road and US 1 to Dale Street which will tie in with the existing trail. FDOT will provide funding of \$2,349,000 for this design work.

#### **Status**

- Proposals were received from design engineers for the project on July 28, 2021. At the September 13, 2021, City Council Meeting, Traffic Engineering Data Solutions, Inc. (TEDS) was awarded the project
- The pre-design survey has been completed along the 4-mile route
- The design engineer is preparing options for the 442-trail crossing. City staff is currently

awaiting the delivery of these design options

- A meeting was held on March 20, 2023, to discuss the alignment options
- Design for the project continues, with 60% plans due from the design firm on October 26, 2023.

### **Southeastern Utility Service Area Agreement with County**

On March 4, 2021, City Manager, Environmental Services Director, and City Engineer met with the Mayor and City Clerk of Oak Hill to discuss their focus on growth and providing utilities for their residents. The discussion was regarding building an additional water treatment plant in Oak Hill and potentially creating their own utility. We informed them that another treatment plant was not necessary as Edgewater can provide water to all of Southeast Volusia County. We also offered Edgewater's assistance in creating their own utility with the City providing wholesale water service.

Departmental staff met with Volusia County Utilities staff to discuss mutual goals and how to interact with the increasing development interest of our ISBA and the County.

This agreement outlines the Utility Service Areas of the County and City. Some of these areas currently overlap and the intent is to mutually agree on boundaries for retail services in Southeast Volusia. The County and City staff has revised the agreement and associated documents several times over several years. On May 1, 2019, staff had a meeting with the new County Manager and County staff to discuss Utilities in Oak Hill. No progress or assurances were given that this will be moving forward any time soon.

#### **Status**

- During the July 3, 2023 City Council meeting a motion was passed to approve the purchase of a 10" water meter and associated materials to be installed in the vicinity of Ariel Road.



## NEW EMPLOYEES, CERTIFICATIONS, LICENSES, TRAINING, MEETINGS, & WEBINARS

### New Employees

Environmental Services welcomed the following new employees for the quarter

- James Contino-Wastewater Plant Operator Recruit 05/22/2023
- Miranda Featherman-Wastewater Plant Operator Recruit 05/22/2023
- Donna Marsh-Administrative Assistant 06/26/2023

### Promotions and Transfers

- Paul Reid-Refuse Equipment Operator to SWM Bucket Truck Operator
- Tim Herold-Public Works Equipment Operator to Specialized Heavy Equipment Operator

### Certification, Licensure, Training, Meetings, & Webinars

- Jay Reinwald-Commercial Driver's License
- Jay Reinwald-State Journeyman's License
- Cody Powers-Commercial Driver's License
- Tanner Redd-Backflow Prevention Assembly Certificate
- Tanner Redd-Reclaim Site Inspector
- Tanner Redd-Reclaim Distribution Operator 3
- Ronnie Hill-Reclaim Site Inspector
- Ronnie Hill-Reclaim Distribution Operator 3

## EDUCATIONAL OUTREACH (RESIDENTS & EMPLOYEES)

- "Scoop the Poop" educational program-provided educational items and/or flyers:
  - Earth Day – Edgefest Event 04/22/2023
  - Mother's Day – Edgefest Event 05/13/2023
- Pens and pencils were provided to City Hall and Environmental Services Front Office
- Provided Environmental giveaways (bags, pencils, pens, key rings, water bottles, folders, coasters, sticky notes, Frisbees, hand sanitizer, etc.) to the following:
  - Earth Day – Edgefest Event 04/22/2023
  - Mother's Day – Edgefest Event 05/13/2023
- Community On the Edge– provided environmental articles/holiday schedules, etc.
- Newsletter– provided environmental articles/holiday schedules etc.

### Departmental Safety Meetings

- April - Working in the Heat
- May - Hurricane Prep
- June - General First Aid