



The Department of Environmental Services Quarterly Report 2nd Quarter of FY 2022-23



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

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

PUBLIC WORKS PROJECTS/ACTIVITIES

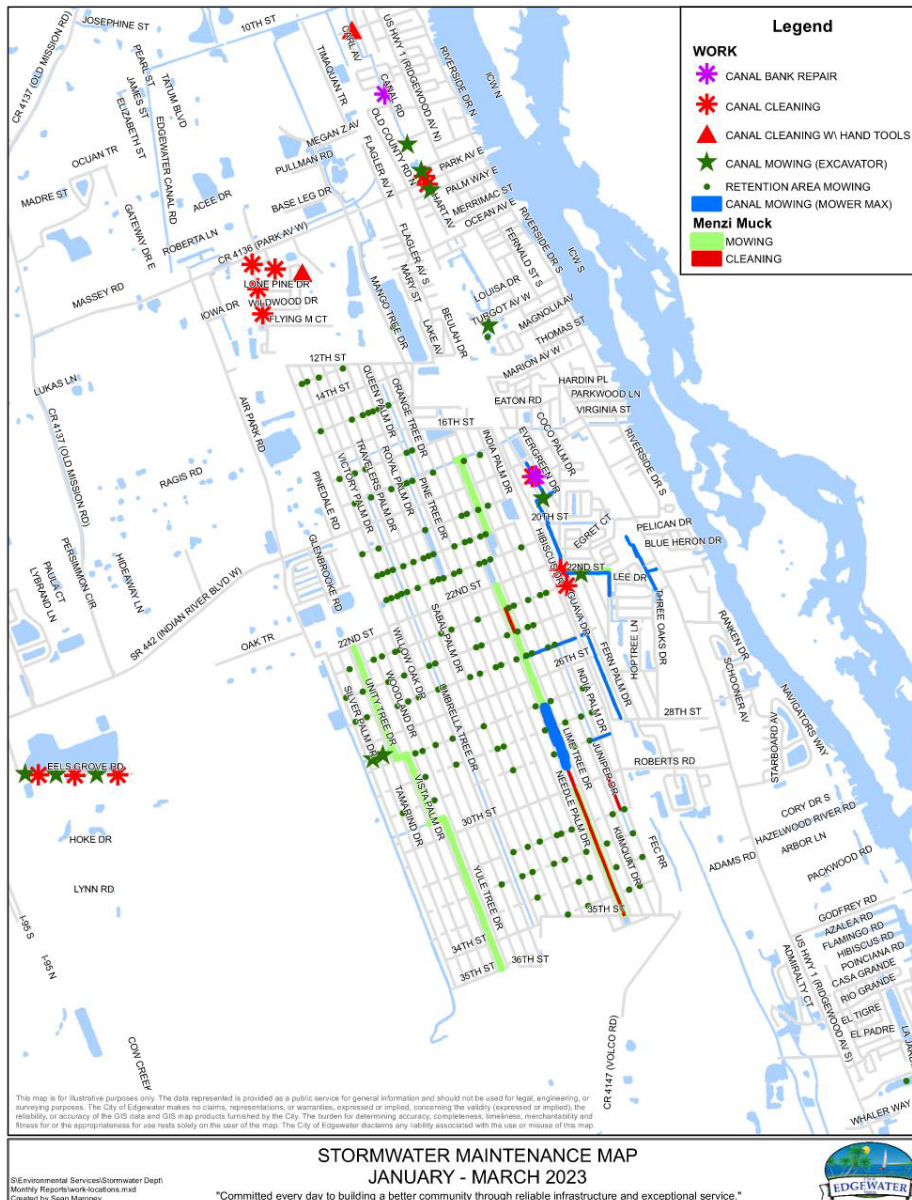
Stormwater Maintenance Activities

Background

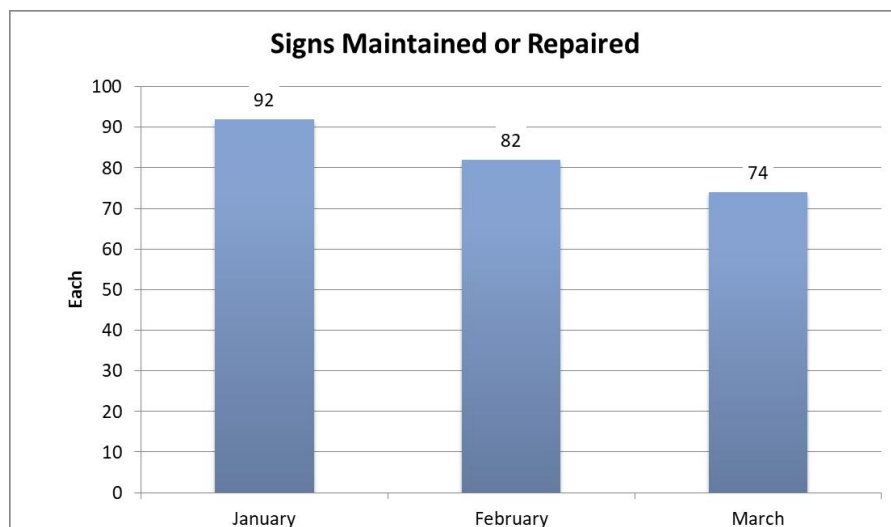
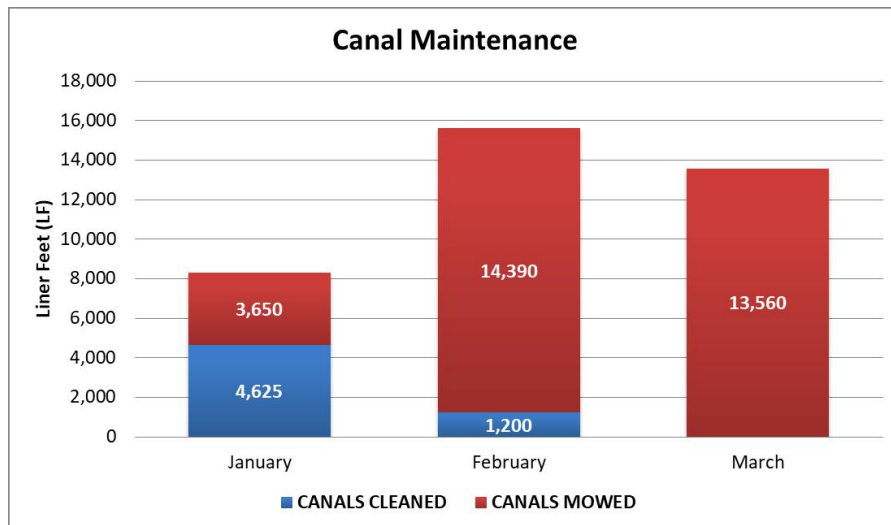
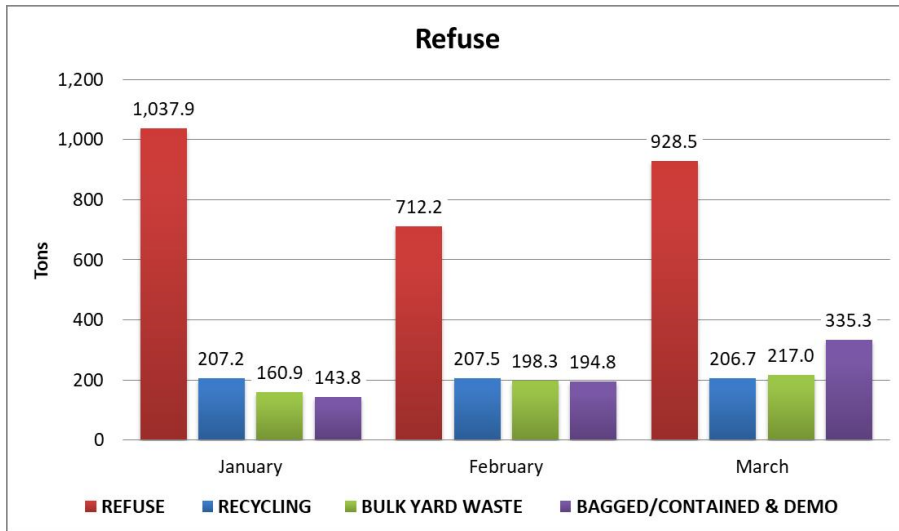
The City of Edgewater is home to a complex network of canals that serve as a vital component of the drainage system for the community. Proper canal maintenance is essential to ensure the waterways remain safe and functional.

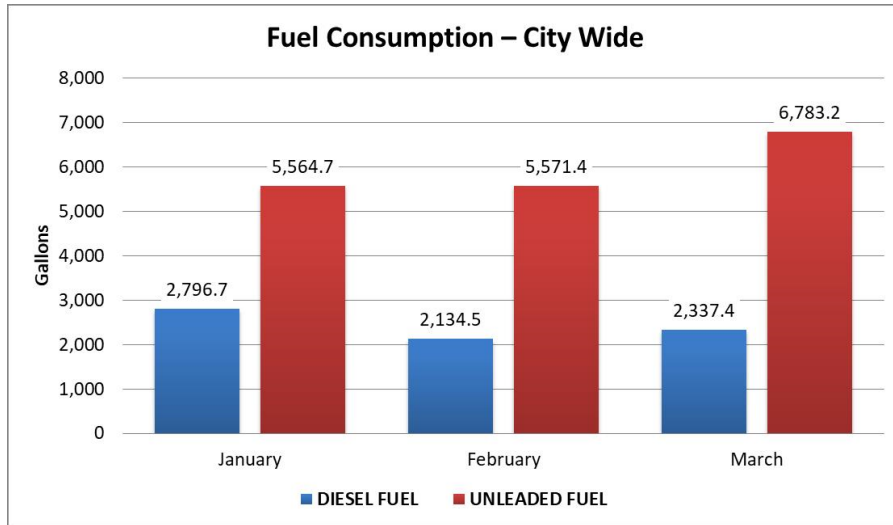
Canals are an essential component of Edgewater's infrastructure. They provide an efficient means of managing stormwater runoff, which is especially important in Florida's wet climate. By directing excess water away from residential areas and roads, canals help prevent flooding and reduce the risk of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

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



Key Performance Indicators (KPI)

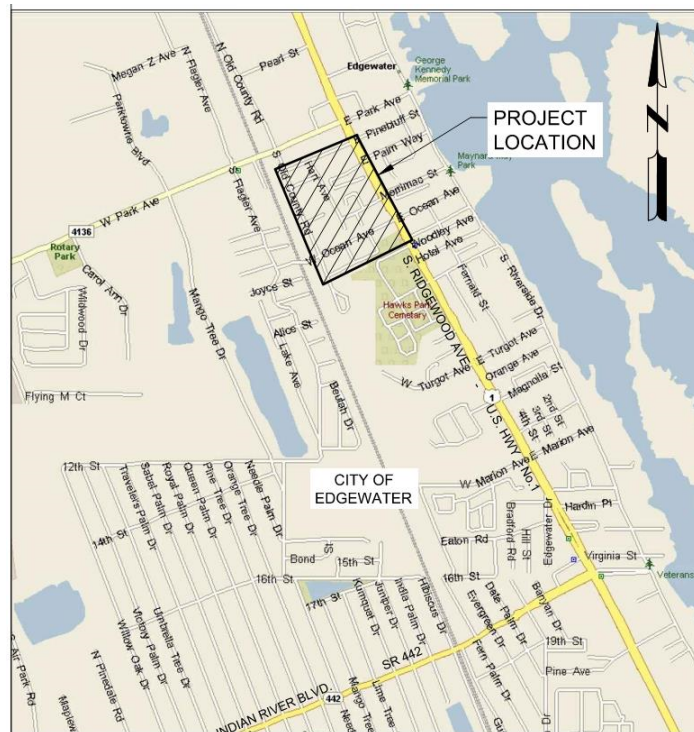




Hart Avenue Stormwater Project

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
- The home at 405 Hart Avenue has been acquired and demolished
- 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.
- Staff is actively engaged with scope and fee negotiations, with will be brought back to Council for approval in May or June.

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, plans preparation, permitting, and bidding.

Financial

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

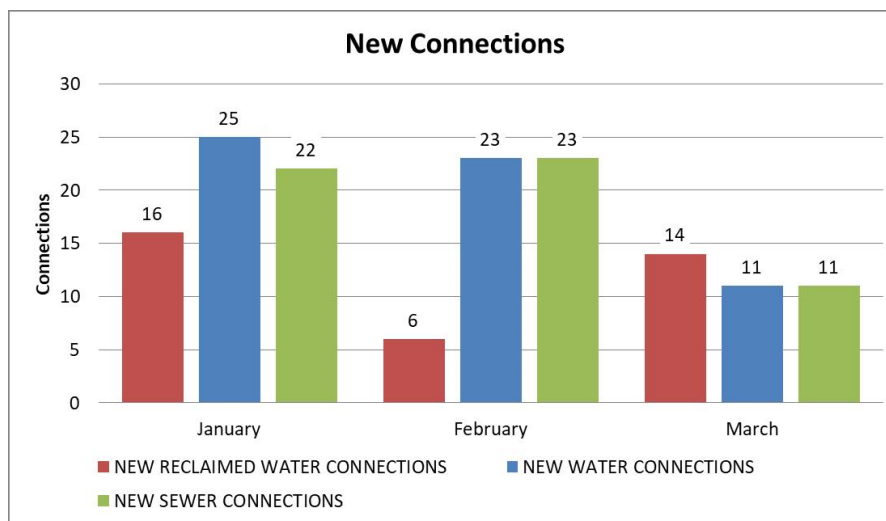
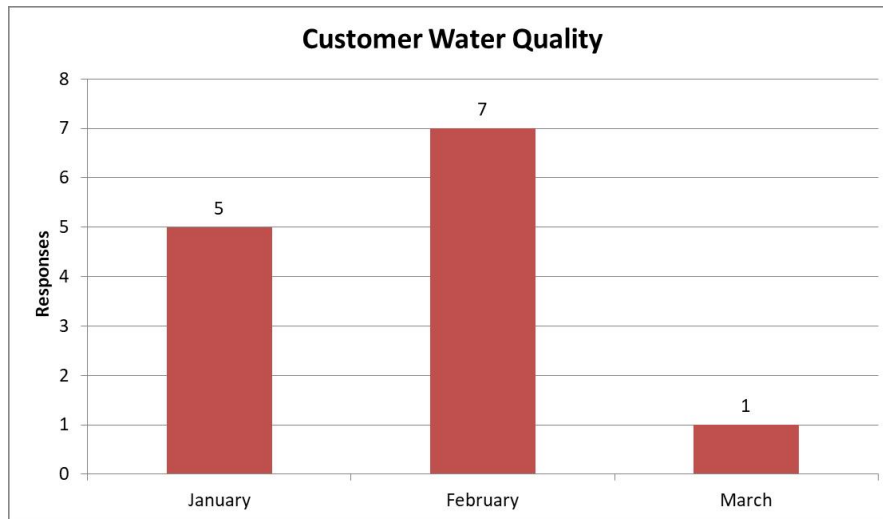
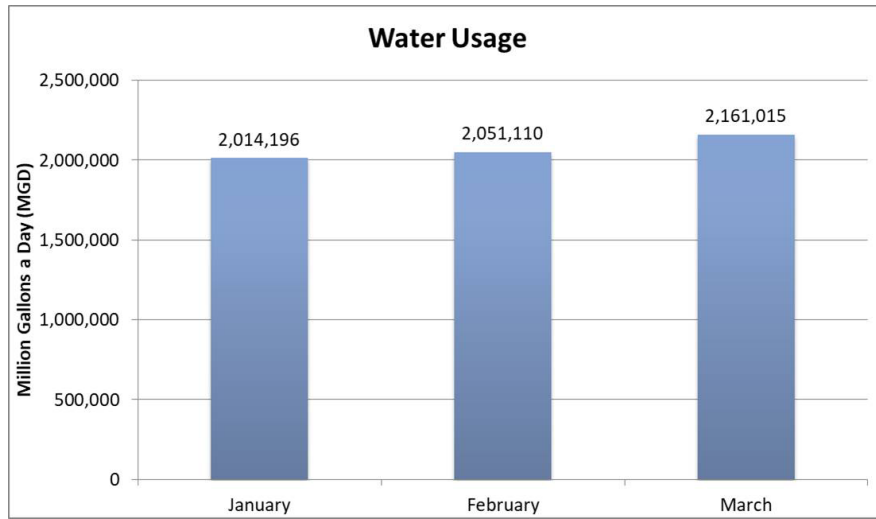
Status

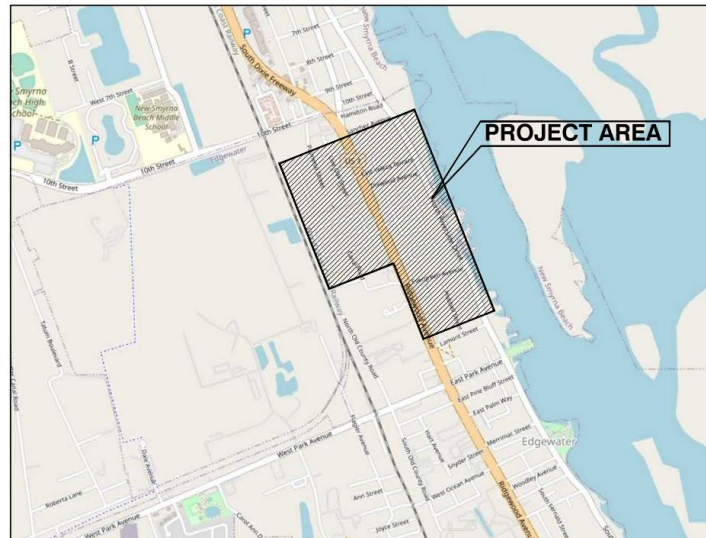
- Department staff continues to work with HMGP Program Manager related to budget modification and additional requests for information.

No new information for this quarter

UTILITIES PROJECTS/ACTIVITIES

Key Performance Indicators (KPI)



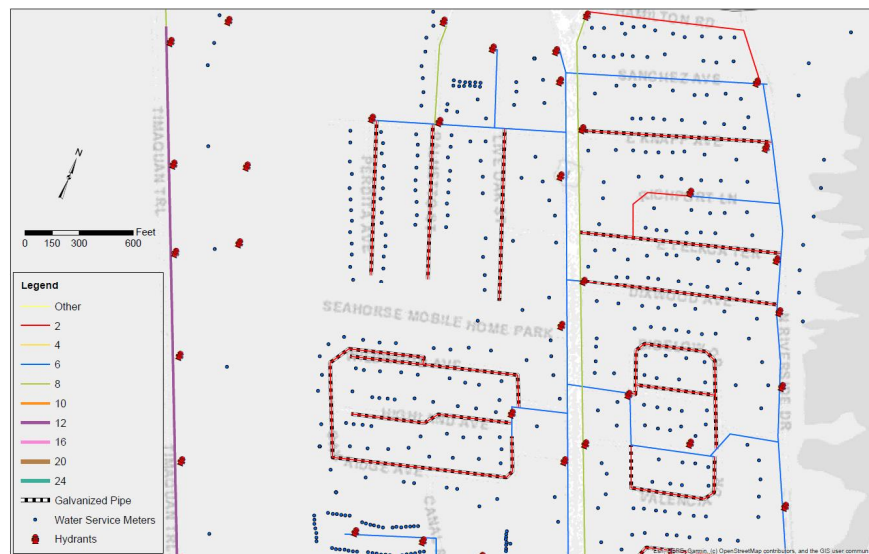


Financial

- 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 project is approximately 65% completed with some sections of the new pipe with some placed in service in February 2023 and the remainder will be placed in service is still on track. The first area cleared for use was located on the west side of US 1.



- The Florida Department of Health has approved the safety of the new waterline assets located on Perdita St., Palmetto St., Live Oak St., West Yelkca Ter., Canal Rd., Wildwood Ave., Highland Ave., and Oak Ridge Ave. These assets are now deemed suitable for connection to the residents. The process of upgrading meters and establishing connections has already commenced, with Palmetto St. being the first area to undergo this process.

Lift Station #3 Replacement (325 North Riverside Drive)

Background

Lift Station #3, was built during the early 1960s when the City's sewers were initially established, is located at 325 North Riverside Drive. Despite the replacement of the pumps and its various components throughout the past six decades, the station has surpassed its operational lifespan and requires a comprehensive renovation.

Financial

- Mead & Hunt – Design Engineer - \$55,153
- J&H Waterstop Utilities, Inc. – Contractor - \$289,800

Status

- City Council awarded the project at the August 2, 2021, City Council meeting. Notice to Proceed was issued on September 1, 2021, with a completion date of January 29, 2022.
- Due to production and shipping delays, a change order for additional time was approved. The end date became July 29, 2022, with additional revisions for the time anticipated.
- Construction began in August 2022.
- The concrete pad, sidewalk, sod, and electricity are complete.
- A standby natural gas generator has been installed. With final commission testing performed on February 7, 2023.
- The lift station is fully functional and up to date.

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 project has reached the 90% Design Stage and is anticipated to be prepared for bidding by the end of May.

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 future needs of the City.

Financial

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

Status

- Mead & Hunt has created design drawings that are 60% complete, which the City has reviewed and provided feedback on.

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 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 are in 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 expend the scope to replace all water mains in the US-1 right-of-way as the Park Ave. intersection was a new 12-inch water main installed along Whetzel St., Western Ave., and Wilkinson Ave.

Financial

- Kimley-Horn-Design Engineer Cost - \$18,500

Status

- The 90% design drawing for the project has been submitted by Kimley-Horn and reviewed by the City, with comments provided on the plans. It is expected that the project will be prepared for bidding in late April.

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 450 residential meters and 942 transmitters have been on backorder since October 2021. 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

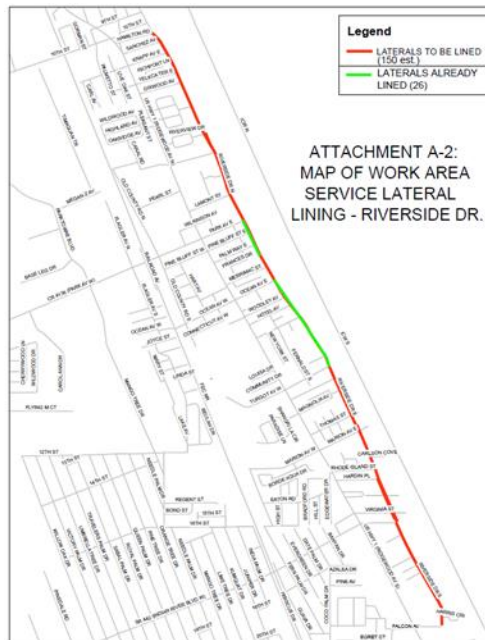
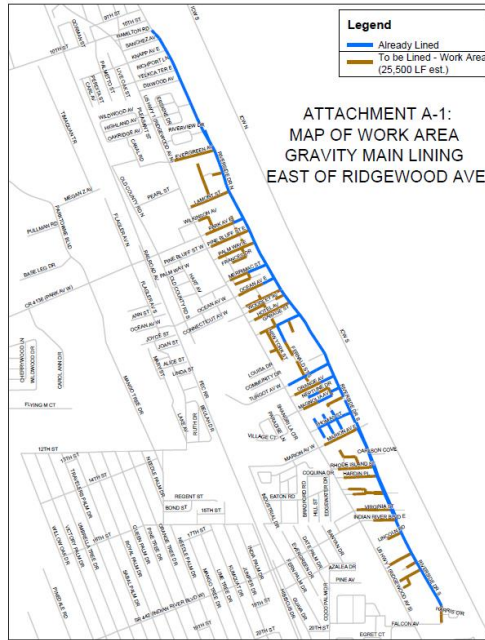
The project aims to reduce the amount of influent ground and stormwater entering into the clay sewer mains and laterals that cause unnecessary water treatment costs.

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 9, 2022
- LMR has started with mainline cleaning and camera inspection
- Miller Preconstruction meeting was held on January 18, 2023. They will be lining service laterals along Riverside Drive north of Park Ave.



- Miller and subcontractor LMK were issued their notice to proceed with a date of 03/01/2023
- Miller has installed 54 sewer cleanout pipes and inventoried 75 service laterals to be lined along Riverside Drive.

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.

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..

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.

No new information for this quarter

NON-CITY PROJECTS

Park Avenue and US 1 Intersection Improvements

The staff has been in conversation with FDOT for intersection and signalization improvements. A water line will have to be relocated at this intersection and FDOT is in the process of acquiring additional property on corners to allow the improvements. The acquisition is expected to take two to three years.

No new information for this quarter

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

New Employees

Environmental Services welcomed the following new employees for the quarter

- Katie Williams- Administrative Assistant 01/03/2023
- Cody Powers- Mechanic I 01/09/2023
- Tom McMullen- Refuse Equipment Operator 02/27/2023
- Ronnie Hill- Cross Connection/ Reclaimed Water Inspector 03/06/2023
- Chris Hannan- Stormwater Trainee 03/20/2023
- Mike Poehler- Wastewater Collections Tech Trainee 03/20/2023

Promotions and Transfers

- Derrick Perry- Refuse Equipment Operator to WWC Maintenance Technician
- Justin Church- Distribution System Operator Trainee to Distribution System Operator Class 3- working out of class as Construction Inspector/Utilities Locator
- Andrew Bonilla -Distribution System Operator Trainee to WW Plant Operator Recruit
- Todd Schneider- Cross Connection/ Reclaimed Water Inspector to Wastewater Collections Superintendent
- William Derrick- Stormwater Equipment Operator to Public Works Heavy Equipment Operator

Certification, Licensure, Training, Meetings, & Webinars

- Danielle Young- FWPCOA Utility Customer Relation Level 1
- Katie Williams- FWPCOA Utility Customer Relation Level 1
- Justin Church- Class 3 Distribution System Operator
- Ken Tripp- Skills for Supervising Course- Daytona State College
- Sean Maroney- Skills for Supervising Course- Daytona State College

EDUCATIONAL OUTREACH (RESIDENTS & EMPLOYEES)

- “Scoop the Poop” educational program-provided educational items and/or flyers:
 - Paws & Claws- Edgefest Event 03/18/2023
- 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:
 - Paws & Claws- Edgefest Event 03/18/2023
- Community On the Edge-provided environmental articles/holiday schedules etc.
- Newsletter-provided environmental articles/holiday schedules etc.
- Recycling Coach went live on the website on November 12, 2018.

- This quarter the city had an average of 5,379 resident Interactions per month

Departmental Safety Meetings

- *January*- Presentation from Police Captain Geiger- 1st Amendment Auditors and City Clerk- Bonnie Zlotnik- Records Request- How employees should handle situations with the public.
- *February*- Workplace Cleanliness
- *March*- Cell Phones- Dangerous Distraction