



**The Department of  
Environmental Services  
Quarterly Report  
1<sup>st</sup> Quarter of FY 2022-23**



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

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|--|----------|----------|
| Water Usage - Average gallons per day pumped to City (MGD) | October  | 1.97     |
|  | November | 1.95     |
|  | December | 1.87     |
| Wastewater Treated – Average gallons per day (MGD)         | October  | 2.585    |
|  | November | 1.973    |
|  | December | 1.501    |
| New Water Connections                                      | October  | 17       |
|  | November | 7        |
|  | December | 19       |
| Total Water Connections                                    |          | 11,768   |
| New Reclaimed Water Connections                            | October  | 9        |
|  | November | 7        |
|  | December | 20       |
| Total Reclaimed Water Connections                          |          | 4,065    |
| Number of Utility Service Calls                            | October  | 815      |
|  | November | 1,032    |
|  | December | 920      |
| Refuse Disposal–Volusia County (Tons)                      | October  | 1,289.39 |
|  | November | 1,034.41 |
|  | December | 953.96   |
| Recycling (Tons)   | October  | 205.73   |
|  | November | 205.71   |
|  | December | 206.73   |
| Yard Waste Disposal (Tons) Bulk                            | October  | 318.85   |
|  | November | 72.91    |
|  | December | 107.80   |
| Yard Waste Disposal (Tons) Bagged/Contained & Demo         | October  | 0        |
|  | November | 176.52   |
|  | December | 161.86   |
| Unleaded Fuel Consumption – City Wide                      | October  | 5,794.01 |
|  | November | 5,802.07 |
|  | December | 5,619.06 |
| Diesel Fuel Consumption – City Wide                        | October  | 7,117.13 |
|  | November | 5,551.10 |
|  | December | 4,563.17 |

## PUBLIC WORKS PROJECTS/ACTIVITIES

### **Storm Debris Collection and Removal**

#### **Background**

On September 28th, Hurricane Ian made landfall west of Fort Myers as a Category 4 storm. It exited the Florida peninsula, approximately nine miles north of Cape Canaveral. The City of Edgewater was challenged by tropical storm-forced winds and unprecedented amounts of rain. Effects from Ian caused widespread neighborhood flooding.

On October 2nd, the City Manager, DOES Director, Deputy Director, Utilities and Public Works Division Managers, as well as the collection contractor, and collection monitor performed a project scoping meeting to address the storm's aftermath.

On October 6th storm debris began to be collected by the City's contractor Crowder Gulf. There were two major debris categories collected, vegetative and construction & demolition (C&D). Two collection pushes were made for each debris class. The collection was performed seven days a week for the majority of the collection period. Storm debris collection ended on December 9<sup>th</sup>.

#### **Status**

The following represents the final collection numbers for this year's debris removal efforts.

- 109,123 Cubic Yards collected
  - 75,915 CY Vegetative (1,587 loads)
  - 33,208 CY C&D (676 loads)

### **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.

After Hurricane Matthew, a Hazard Mitigation Grant Program (HMGP) grant was applied to acquire and demolish the house. In July 2019 \$22,500 for Phase I of the HMGP grant was approved for design, survey, plan preparation, permitting, and bidding for the proposed project has been received.

In August 2019, another grant application was sent to FEMA under the HMGP for the acquisition of the property, earthwork, site clearing, engineering, and project management in the amount of \$227,000.

#### **Financial**

- Mead & Hunt – Design Engineer – \$90,263
- Project Estimated Cost– \$1,994,234
- Grants-
  - DEO 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 home at 405 Hart Avenue was purchased on October 31, 2022
- A pre-construction meeting was held on November 29, 2022
- Notice to Proceed was given on December 1, 2022
- All but two easements have been acquired
  - 316 S Ridgewood Ave (Edgewater Mobile Home Park)- The title company is processing
  - 126 W Ocean Ave (check is ordered, waiting for signature)
- GPS Civil has applied for a demolition permit for 405 Hart Ave
- GPS Civil is ordering materials

**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 has been published and bids will be opened in January.
- A contract for project Design and CEI services was advertised and will be brought to the City Council in February for approval.

**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.

**Financial**

- Phase 1 includes surveying, engineering, design, plans preparation, permitting, and bidding only.
- HMGP Grant - \$19,387.50
- Stormwater Fund - \$6,462.50

**Status**

- A proposal was requested from Mead & Hunt to perform Phase 1 services which came in twice as much as the grant funding. Additional funds will need to be requested from HMGP as well as an extension to the funding agreement.
- Continue to work with HMGP Program Manager related to budget modification and additional requests for information.

## UTILITIES PROJECTS/ACTIVITIES

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

#### **Background**

There are approximately 15 miles of two-inch water lines in the City that were installed in the early 1960s. These lines are at the end of their useful life and in need of replacement. In February 2020, a proposal was requested from one of the City's continuing consultants, BESH, Inc., for surveying, engineering design, permitting, bid documents, project administration, and construction administration. At the March 7, 2022 meeting, City Council awarded the lowest responsive bidder ThadCon LLC for \$1,040,020.

#### **Financial**

- BESH – Design Engineer - \$125,620
- FY2022 Construction Funding = \$1,029,200 Budget

#### **Status**

- Construction of 2.1 miles of replacement and upgrades began in June 2022
- The contractor has started the project installing new PVC water lines, with work being performed on Evergreen Avenue, East Knapp Avenue, W. Yelcka Dr. Live Oak Street, Palmetto Street, Perdita Street, Highland Avenue, Oakridge Drive, Wildwood Avenue, and Canal Road.
- The project is approximately 65% completed with some sections of the new pipe to be in service by the end of February 2023 and the remainder by end of April. The first areas that will be cleared for use are on the east side of US 1.

### **Lift Station #3 Replacement (325 North Riverside Drive)**

#### **Background**

This lift station is one of the original lift stations constructed in the early 1960s when sewers were first installed in the City. While pump replacements and individual components have been replaced over the last 60 years, it is time for a full refurbishment.

#### **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 is now July 29, 2022, with additional revisions for the time anticipated.
- The contractor is still waiting on construction materials. The tentative start date is August 2022.
- Construction began in August 2022.
- The concrete pad, sidewalk, sod, and electricity are complete.

- Completed start-up commissioning.
- The project is nearing completion with the last item to be completed is the plumbing of Natural Gas to the generator scheduled for January 18th, 2023 with final commission testing following the gas connection.

### **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**

- The Sensus Analytics team trained staff in the new software.
- New iPerl water meters and transmitters are being installed over the next several years
- Meters are being installed – Approximately 3,900 iPerl Meters were installed before the antenna installation that will need the transmitters replaced.
- Over 2,600 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. The City has currently 400+ meters on backorder with the vendor. This is an industry-wide issue not unique to only this vendor and supplier.

### **Water Treatment Plant – Treatment Alternatives**

#### **Background**

The project aims to evaluate treatment alternatives to help achieve reduced color, remove total organic carbon (TOC), achieve 4-log virus inactivation, and utilize free chlorine for secondary disinfection.

#### **Engineer of Record**

- Mead & Hunt - City Council approved a proposal at the February 4, 2020, Council Meeting for Treatment Alternative Evaluation, Technical Memorandum, Column Testing, and Pilot Testing - \$70,500
- CPH, Inc. – Peer Review - \$6,500

#### **Status**

- Staff is requested a peer review of the evaluation before moving forward with the project to ensure the recommendation is the best course of action. CPH has completed this peer review and agreed with the recommendations of Mead & Hunt. Further cost analysis is being performed by staff to ensure the best use of funds is being accomplished.
- At this time the alternative water treatment costs are being considered as a possible upgrade

to the existing plant or as a part of a new plant as the existing plant is 30+ years old.

### **Sewer Lining FY 2022**

#### **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 has been completed
  - LMR has started with mainline cleaning and camera inspection
  - Miller Preconstruction meeting is scheduled for January 18th they will be lining service laterals along Riverside Drive north of Park Ave.
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## 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
- The city will continue to await construction pricing to normalize
- Bi-weekly meetings have been suspended until consequential developments occur related to project design and project timeline modification
- No new information for this quarter

### **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 City Manager and staff are to negotiate fees.
- The pre-design survey has been completed along the 4-mile route.

### **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 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

### **SR 442 Resurfacing: US-1 to I-95**

- Expected to be completed in March of 2023

### **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.

The water main relocation was included in the FY2022 budget. On 12/1/2021, Staff authorized our engineering consultant, Kimley-Horn Inc., to proceed with their proposal for \$18,500 to begin the design and permitting of the water main relocation.

The engineer submitted a design memo which was reviewed by Staff recommending a new route for the water main to avoid conflicts at the Park Avenue intersection. The new route intends to run along Whetzel Street, Western Avenue, and Wilkinson Avenue.

*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

- Caleb Bastin- Refuse Equipment Operator
- Cody Powers- Mechanic
- Katherine Priestly- Administrative Assistant
- Andrew Rivers- Refuse Equipment Operator
- Jay Ramsey- Refuse Equipment Operator

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

- Andrew Bonilla-Distribution Systems Operator Class 3 – 10.31.2022
- Justin Church-FDOT Approved Temporary Traffic Control-Advanced Course – 12.09.2022
- Katlyn Newell-Distribution Systems Operator Class 3 – 12.01.2022
- Robert Polizzi-FSAWWA Fall Conference – 11.27.2022/11.30.22

## EDUCATIONAL OUTREACH (RESIDENTS & EMPLOYEES)

- Water and wastewater plant tours were hosted for-
  - Mayor DePew
  - Councilwoman Gillis
  - Councilwoman Dolbow
- “Scoop the Poop” educational program-provided educational items and/or flyers:
  - Kid City – Environmental Presentation-11.16.2022
  - 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-
  - Kid City – Environmental Presentation-11.16.2022
- 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 5,631 Resident Interactions per month
- Departmental Safety Meetings
  - October- General Safety
  - November- Reasons to come home
  - December- General Safety