

Public Works Monthly Executive Summary DECEMBER 2024



Street Department

During the month of December, The Street Department has been busy throughout the city. Additional activities included:

- 7 silt fence inspections
- Prepare the City for the Christmas season, Christmas on Walnut Street and Parade.

The Street Department completed **36** additional work orders that pertained to street and stormwater issues.

Parks Department

During the month of December the Parks Department mowed, trimmed, and edged all areas one time including the DOT rights-of-way, City Parks, and FCT property. Additional activities included:

- Clean the pool 3 times.
- Prepare the City for the Christmas season, Christmas on Walnut Street and Parade.

The Parks Department completed **1** additional work order outside of their normal daily work schedules.

Equipment Maintenance

The Equipment Maintenance Shop, as always, works hard to keep the equipment and vehicles going so the city can continue to provide our citizens with the exceptional service they are accustomed to. During the month of December, Levi and John completed **65** work orders.

Tradesworker

During the month of December **16** work orders were completed.

Solid Waste Department

Cove Life, Litter Cleanup Program & New Services:

- Picked up everything around the rollout cans.
- Picked up as much loose trash, palm fronds, and sticks as possible on the streets, along the R.O.W. and ditches regardless of if it is near a container or not.
- Delivered 3 trash cans and 3 recycle bins to new customers.
- Delivered 1 recycling bin to current customers.
- Repaired 8 trash cans.
- Replaced 12 trash cans.

This month **December** the city collected:

- **421.01 tons** of Class I garbage (9 % increase)
- **0.3 tons** of recycling (98% decrease)
- **63.83 tons** of yard waste (17% decrease)
- **0 tons of Sludge**
- **0 Street Sweepings**
- **11.85 tons** of white goods and other junk
- **70.00 tons Commercial pickup**

For comparison during **December 2023**, the city collected:

- **386.85 tons** of Class I garbage
- **18.29 tons** of recycling
- **74.38 tons** of yard waste
- **86.86 tons of Sludge**
- **0 Street Sweepings**
- **5.37 tons** of white goods and other junk
- **70 tons Commercial pickup**

Water/Wastewater

- W/WW crews/management had personal interaction with several citizens regarding water/sewer issues.
- Contacted all customers on water and irrigation “Highest Users” report that had unusual consumption (not usually on report)
- Staff continues to refine the scope and financials of the consolidated AWWTP, expanded reclaimed water system, wastewater collection system improvements and water system capital improvements to obtain maximum grant potential, optimize loan conditions and minimize impact to customers.
- W/WW/RW Projects;
 - Design of the improvements to the city’s wastewater treatment system (all phases) is complete. In order to maximize grant opportunities, the initial construction phase was split into two pieces, for a total of four phases;
 - Phase I is construction of the on-site reclaimed water system (storage tanks, high service pumps, electrical) at the existing Harbor Road Facility,

and rehabilitation of Master Lift Stations #2 and #4. This phase went out to bid in January in two parts – plant reclaimed water improvements & lift station #2 & #4. **Construction was completed in June 2020.** The total Phase I cost is \$6,120,600. Staff received \$4,063,425.00 in “Principal Forgiveness” (grant) from FDEP (SRF).

▪ Phase II:

- Construction of the new 1.25 million gallon per day (MGD) advanced wastewater treatment plant (AWWTP) at the Harbor Road site.

Construction approximately 75% complete

▪ Phase III:

- A new force main from Lift Station #2 diverting the sewage from the South Plant to Harbor Road (all sewage generated in the City will be treated at the new Harbor Road AWWTP).
- Decommissioning and “mothballing” of the South Wastewater Treatment Plant. The permit will remain in place and the plant could be re-commissioned at a later date depending on future activities at the Reynolds site.

▪ Phase IV (future – determined by growth) is a second identical 1.25 MGD AWWTP built at the Harbor Road site. An alternative would be construction of this train at the South Plant site in Reynolds Park if the southern /Reynolds portion of our service territory is where significant growth occurs

▪ Phase V (future – determined by growth) is a third identical 1.25 MGD AWWTP built at the Harbor Road or Reynolds site.

- Sanitary Sewer Evaluation Survey (SSES) of the Core City wastewater collection system is **complete**, including Mittauer final report. Staff utilizes this data daily in evaluating collection system repairs and requests for sewer connections.
- Continuing to work with FDOT and Clay County on utility relocations associated with the First Coast Expressway and Clay County road expansions (CR 315 & CR 209 / Russel Road).
- **Senate Bill 64 – Surface Water Discharge Elimination Act:** In 2021 the Florida Senate approved SB 64, which requires wastewater treatment plants to eliminate surface water discharges by 2035, which has become a significant financial burden to utilities. This requires the city to eliminate effluent discharge from the Harbor Road and South wastewater treatment plants to the St. Johns River. While the city has been implementing reclaimed water projects for several years, there are not enough uses to take all of the city’s treated wastewater. In November 2021 the city submitted to FDEP a plan as to how surface water discharges will be eliminated.

Potable Water:

- Staff and Mittauer have completed a full review of the future capital needs of the water system. A comprehensive capital improvement program (CIP) has been developed as part of the Water Master Plan. As in the past, the timing of many of these improvements is driven by future activities in Reynolds Industrial Park and other areas

of our service territory. The city has received an FDEP – SRF loan for Planning and Engineering of several of the CIP improvements so that as the need for the improvements occur, the City is ahead of the game and can apply very quickly to SRF for actual construction dollars as “shovel-ready” projects. The total design project cost is \$356,800.00, with a \$178,400.00 (50%) principal forgiveness (grant), leaving an actual loan of \$180,100.00.

- Reynolds Water System Improvements:
 - New water mains along two primary streets to remedy fire hydrants that were inadequate.
 - New 12” water main crossing under SR 16 to replace aging mains that endanger the integrity of the road. This eliminated four existing crossings.
 - New water main along Red Bay Road eliminating existing aging and leaking pipes. In addition remediating fire hydrants that were inadequate.
 - New water main and sewer force main extension from Reynolds Park to and across the MOBRO complex. This extension is designed to supply water, fire protection & sewer needs to MOBRO and future developments to the east.
 - **Completed September 2021**

South Service Territory Improvements:

- New 12” water main loop from US17 along CR 209 S to the existing 12” water main that terminated at 4600 CR 209 S. This also included a new 4” sewer force main from US 17 along CR 209 S to the First Coast Expressway crossing. **Completed September 2021**
- The City has received grants from the State of Florida Hazard Mitigation Grant Program (HMGP) to install auxiliary generators at 17 sewage lift stations, and install generators / raise infrastructure at four additional stations. The grant funds 75% of the improvements. **Approximately 99% complete**
- Continued remediation of malfunctioning or out-of-service hydrants.
- Operated and maintained the Harbor Rd. and South Wastewater Treatment Plants as well as the Harbor Rd. and Reynolds Water Treatment Plants to meet the requirements of Regulatory Agencies.
- Continued to make process control adjustments at the Harbor Rd. and South WWTP in efforts to further lower Total Nitrogen and Total Phosphorus levels being discharged to the St. Johns River.
- Continued landscape maintenance at Water and Wastewater Treatment Facilities as well as lift stations.
- Continued preventative maintenance on all treatment facility generators.
- Completed 3 new services.
- Completed 52 water-related work orders.
- Completed 16 sewer related work orders.
- Responded to 135 utilities locate requests.

TOP 10 WATER CUSTOMERS DECEMBER 2024

Largest (By Consumption)		Largest (By Dollar Amount)	
Rank	CONSUMER	Rank	CONSUMER
1	Sheriff's Department	1	St John's Landing
2	Oak Street OPCO LLC	2	Oak Street OPCO LLC
3	Luv Car Wash	3	Luv Car Wash
4	Kindred Health	4	Clay High
5	Clay Port INC	5	Kindred Health
6	Luv Car Wash	6	Clay Port INC
7	Green Cove Springs Marina	7	Green Cove Springs Marina
8	Clay High	8	Governors Landing Condo INC
9	Governors Landing Condo INC	9	Earth Works of Florida LLC
10	Earth Works of Florida LLC	10	Springs Coin Laundry

TOP 10 IRRIGATION CUSTOMERS DECEMBER 2024

Largest (By Consumption)		Largest (By Dollar Amount)	
Rank	CONSUMER	Rank	CONSUMER
1	Permabase Building Products	1	Permabase Building Products
2	Magnolia Point Investments	2	Magnolia Point Investments
3	Vallencourt Construction	3	Mobro Marine INC
4	Judy Cruz	4	Vallencourt Construction
5	Mobro Marine INC	5	Judy Cruz
6	Green Cove Springs Junior High	6	Green Cove Springs Junior High
7	George & Darlene Guess	7	Sheriff's Department
8	Stephen Elgin	8	George & Darlene Guess
9	Sheriff's Department	9	Stephen Elgin
10	Coral Ridge Foods	10	Coral Ridge Foods

TOP 10 SEWER CUSTOMERS DECEMBER 2024

Largest (By Consumption)		Largest (By Dollar Amount)	
Rank	CONSUMER	Rank	CONSUMER
1	St Johns Landing	1	St Johns Landing
2	Sheriff's Department	2	Sheriff's Department
3	Oak Street OPCO LLC	3	Oak Street OPCO LLC
4	Luv Car Wash	4	Luv Car Wah
5	Kindred Health	5	Clay High
6	Clay Port INC	6	Kindred Health
7	Clay High	7	Clay Port INC
8	Governors Landing Condon INC	8	Governors Landing Condo
9	Springs Coin Laundry	9	Springs Coin Laundry
10	Premier Surface Design LLC	10	Dreh Holdings LLC

Wastewater Plant Capacity Status

South Plant: TMDL Capacity 0.350 MGD*

- Current Loading 0.269 MGD*, 77% Capacity (October 2024 Annual Average)
- Current & Committed (.065) Loading 0.334 MGD*, 95% Capacity
- Current, Committed (.065) & Requested (0.05) Loading 0.339 MGD*, 97% Capacity

Harbor Road: TMDL Capacity 0.650 MGD*

- Current Loading 0.504 MGD*, 78% Capacity (October 2024 Annual Average)
- Current & Committed (0) Loading 0.504 MGD*, 78% Capacity
- Current, Committed & Requested (0) Loading 0.504 MGD*, 78% Capacity

*MGD = Million Gallons per Day

Note: No Reynolds growth or loading projections included in above.