



Public Works Monthly Executive Summary January 2024

Street Department

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

- Street Sign Maintenance City Wide.
- Clean storm drains City Wide.
- 4 Silt Fence inspections.

The Street Department completed 55 additional work orders that pertained to street and stormwater issues.

Parks Department

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

- Preparation for Arbor Day.
- Preparation for Martin Luther King Day program at Vera Francis Hall Park, we worked the festival and broke down afterwards.
- Un-decorated the City from Christmas.
- Un-decorated from the Parade of Trees.
- Monthly playground equipment inspection and necessary repairs.
- Cleaned the pool 4 times.

The Parks Department completed 3 additional work orders 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 January Levi, John and Donald completed **88** work orders.

Tradesworker

During the month of January **34** 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 **2** trash cans and **2** recycle bins to new customers.
- Delivered 11 green and 11 blue recycling bins to current customers.
- Repaired 6 trash cans.
- Replaced 26 trash cans.

This month January, the city collected:

- **331.66** tons of Class I garbage (4% increase)
- **11.11** tons of recycling (38% decrease) – New Recycling rules implemented
- **104.18** tons of yard waste (15% decrease)
- **102.17**tons Sludge
- **0** tons **Street Sweeping**
- **14.48** tons of white goods and other junk.

For comparison during January 2023, the city collected:

- **319.55** tons of Class I garbage
- **17.89** tons of recycling
- **123.28**tons of yard waste
- **144.57**tons Sludge
- **3.63** **Street Sweeping**
- **10.34** tons of white goods and other junk

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 85% complete. Surety has chosen Sawcross Contractors to complete construction. Sawcross mobilized on 1/8/2024.**
 - 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. **Staff has applied for a grant from a new program at FDEP for this construction. This is a grant only. A private loan would be required to pay the balance between grant amount and actual project cost. A full analysis will take place upon results of grant application.**
 - Phase IV (further described below):
 - Design and permitting of a reclaimed water system in the Magnolia Point Development. This project will be necessary to comply with Senate Bill 64, the “Surface Water Discharge Elimination Act” which requires utilities to eliminate wastewater facility discharges to surface waters (rivers, etc.) by 2032.
 - This project will be completed in phases to reduce impact to customers and maximize loan to grant potential.
 - Phase V (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 VI (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). Project schedules and designs continue to change. **The relocation of the utilities on CR 209 will not be at the city’s expense as the affected area is in an easement, not in the right-of-way. CR 315 relocation still under review.**
- **Senate Bill 64, The 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, as required, the city submitted to FDEP a plan as to how surface water discharges will be eliminated. That plan, which is to re-pipe Magnolia Point irrigation to

reclaimed water, was approved by FDEP. As Magnolia Point is a large user of potable / aquifer water for irrigation, this project has two benefits – reducing surface water discharges and reducing withdrawals from the Floridan Aquifer for irrigation.

Staff have applied for a loan / grant from the Drinking Water SRF Program for design and permitting of the Magnolia Point Reclaimed Water Project.

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 2 new services.
- Completed 62 water-related work orders.
- Completed 19 sewer related work orders.
- Responded to 127 utilities locate requests.

TOP 10 WATER CUSTOMERS JANUARY 2024

Largest (By Consumption)		Largest (By Dollar Amount)	
Rank	CONSUMER	Rank	CONSUMER
1	Sheriff's Department	1	Sheriff's Department
2	Hanson Pipe & Precast INC	2	Hanson Pipe & Precast INC
3	Premier Surface Design LLC	3	Clay County Court House
4	Clay County Court House	4	Premier Surface Design LLC
5	Clay Port INC	5	Green Cove Springs Distribution
6	Vac-Con	6	Vac-Con
7	R C Bannerman Learning Center	7	Clay Port INC
8	Cove Plaza LLC	8	R C Bannerman Learning Center
9	Coral Ridge Foods, GC#4868	9	Green Cove Springs Junior High School
10	CLAY Port INC	10	Cove Plaza LLC

TOP 10 IRRIGATION CUSTOMERS JANUARY 2024

Largest (By Consumption)		Largest (By Dollar Amount)	
Rank	CONSUMER	Rank	CONSUMER
1	Triad Retail Construction	1	Triad Retail Construction
2	Vallencourt Construction	2	Vallencourt Construction
3	Permabase Building Products	3	Permabase Building Products
4	Governors Point Yacht	4	Governors Point Yacht Club
5	Magnolia Point Investments	5	Magnolia Point Investments
6	Mobro Marnie INC	6	Mobro Marine, INC
7	Hut American Group LLC	7	AMH Development non Res
8	Coral Ridge Foods GC#4868	8	Hut American Group LLC
9	K2W Real Estate Holdings INC.	9	Coral Ridge Foods GC#4868
10	County DMV Tax Collecting	10	County DMV Tax Collecting

TOP 10 SEWER CUSTOMERS JANUARY 2024

Largest (By Consumption)		Largest (By Dollar Amount)	
Rank	CONSUMER	Rank	CONSUMER
1	St. John's Landing	1	St. John's Landing
2	Sheriff's Department	2	Sheriff's Department
3	Hanson Pipe & Precast INC	3	Hanson Pipe & Precast INC
4	Oak Street OPCO LLC	4	Oak Street OPCO LLC
5	Kindred Health	5	Kindred Health
6	Premier Surface Design LLC	6	Clay County Court House
7	Clay County Court House	7	Premier Surface Design LLC
8	Spring Coin Laundry	8	Dreh Holding LLC
9	Dreh Holdings LLC	9	Spring Coin Laundry
10	Clay Port INC.	10	Vac-Con

Wastewater Plant Capacity Status

South Plant: TMDL Capacity 0.350 MGD*,

- Current Loading 0.260 MGD*, 76% Capacity (November 2023 Annual Average)
- Current & Committed (.065) Loading 0.325 MGD*, 93% Capacity
- Current, Committed (.065) & Requested (0.40) Loading 0.362 MGD*, 103% Capacity

Committed flow: Rookery Phase 1 (.065)

Requested flow: Batton Lakes RV Park (0.40)

Harbor Road: TMDL Capacity 0.650 MGD*

- Current Loading 0.497 MGD*, 77% Capacity (November 2023 Annual Average)
- Current & Committed (0) Loading 0.497 MGD*, 77% Capacity
- Current, Committed & Requested (0) Loading 0.497 MGD*, 77% Capacity

*MGD = Million Gallons per Day

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