




## Utility Department Monthly Update

**MEETING DATE:** November 9, 2021

**TO:** Honorable Mayor and City Councilmembers

**FROM:** Daniel Saus, Utility Director 

**THROUGH:** George Garrett, City Manager

**SUBJECT:** October 2021 Utility Department Update

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### A. Wastewater Treatment Plants

#### 1. General Issues

- a. No major issues in October for the plants or the collection system.
- b. Bids for the Chemical Feed Upgrades are due this month. This project is funded by FEMA.

#### 2. Odor Complaints / Mitigation

- a. We received no odor complaints for the wastewater treatment facilities in the last several months.

#### 3. Effluent Quality Report/Plant Performance

The September 2021 wastewater facility performance chart is shown below because the January numbers are just being tabulated. The plant permits now require AWT compliance and the operations staff is doing an amazing job as reflected in our effluent quality as shown below. **(Effluent results are always a month behind due to sampling, shipping, & lab reporting)**

# City of Marathon WWTP's Plant Performance Data for:

SEPTEMBER 2021

Parameters:			CBOD mg/L		TSS mg/L		TN mg/L		TP mg/L	
WWTP	Permit (MGD)	MADF (MGD)	Monthly Average (6.25)	Annual Average (5.0)	Monthly Average (6.25)	Annual Average (5.0)	Monthly Average (3.75)	Annual Average (3.0)	Monthly Average (1.25)	Annual Average (1.0)
AREA 3	0.250	0.164	5.0	1.5	1.05	0.8	0.613	2.18	0.599	0.751
AREA 4	0.400	0.259	1.52	1.2	0.5	1.4	0.707	1.2	0.118	0.187
AREA 5	0.450	0.328	1.0	1.7	0.5	1.1	0.79	1.2	0.095	0.40
AREA 6	0.200	0.073	3.45	2.0	0.5	1.0	0.725	1.32	0.217	0.424
AREA 7	0.200	0.036	2.81	2.1	0.5	0.5	1.51	1.68	0.296	0.260

## B. Collection System

1. The month of October was relatively quiet with flows high because of the start of the king tides. The Collections crew has been hard at work identifying and repairing infiltration in the Little Venice area.
2. Vacuum Station Salinities for October:
  - a. August's vacuum station salinities were at as follows (in parts per thousand): SA3: 2.3 SA4: 2.4; SA5: 6.9; SA6: 2.2 and SA7: 01.5. These values show some infiltration but only Area 5 is really causing a problem. We continue to look for the outstanding issues in that system.
3. Wastewater System Connections
  - a. The City's wastewater system parcel connection rate is currently standing at approximately 100%. (Only customers that are in code or do not have a certificate of occupancy are not connected)

#### 4. Code Compliance

- a. There are currently 6 open code cases in process for failure to connect to the City's central wastewater system, code violations, or expired permits. Most of them are residential properties at some point in the foreclosure process.

#### 5. Call-Outs

- a. From October 1st to October 31st there were 42 documented Call outs for the entire Collections System. Of these, 32 were system generated typically a low vacuum detected at one of our Vacuum Stations. These 32 call outs did not result in any inconvenience to our customers in any way as the problems were detected and remedied by Collections/Maintenance City Staff before these problems could become a nuisance to the homeowners or residents at these locations.
  - b. The other call outs were as follows:
    - i. 10-4-21: Backup Area 5. 11138 5th Ave. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Vac Pit and Cleanout. He found the unit to be in good working order. Homeowners Issue. He let the Homeowner know to call a plumber.
    - ii. 10-5-21: Backup Area 3. Marathon City Marina. 800 35th St. Ocean. The MOD phone received a call about an Alarm going off at the Marina. The Tech showed up and inspected the Panel and found that the Level Control Float had gone bad. He replaced the Float and put the Station back into service. No damage to property.
    - iii. 10-5-21: Backup Alarm Area 7. 58078 Morton St. The MOD phone received a call about an Alarm going off on the Grinder Pump Station. The Tech showed up and inspected the Panel and Wet Well and found that the Alarm Switch had gone bad. He replaced the Alarm Switch and put the Station back into service. No damage to property.
    - iv. 10-7-21: Backup Area 7. 58437 Morton St. The Tech responded and inspected the Grinder Pump Station and Wet Well. He found the unit to be in good working order. Homeowners Issue. He let the Homeowner know to call a plumber.
    - v. 10-7-21: Backup Area 7. 57464 Gibson St. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Grinder Pump Station and Wet Well. The Tech found that the Wet Well was full of Grease and Debris that prevented the Float from operating properly. The Tech had the Grease and Debris cleaned out and put the Grinder Pump Station back into service. No damage to property.

vi. 10-8-21: Backup Area 4. 107 Anglers Dr. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Vac Pit and Cleanout. He found the unit to be in good working order. Homeowners Issue. He let the Homeowner know to call a plumber.

vii. 10-9-21: Backup Area 7. 57464 Gibson St. The MOD phone received a call about a backup at the property. The Tech showed up and inspected the Panel and found that the Level Control Float had gone bad. He replaced the Float and put the Station back into service. No damage to property.

viii. 10-14-21: Backup Area 3. 1000 James Ave. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Vac Pit and Cleanout. He found the unit to be in good working order. Homeowners Issue. He let the Homeowner know to call a plumber.

ix. 10-21-21: Backup Area 7. 370 Coconut Ave. The Tech responded and inspected the Grinder Pump Station and Wet Well. He found the Wet Well full of water and had it pumped down. The Stators were bad in the Station. He replaced the Stators and put the Station back into service. No damage to property.

x. 10-20-21: Backup Area 7. 113 Dorsett Dr. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Grinder Pump Station and Wet Well. He found the unit to be in good working order. Homeowners Issue. He let the Homeowner know to call a plumber.

6. Odor Complaints / Mitigation

b. We received no odor complaints in October for the collection system.

## C. Plant Upgrades & Construction Projects

1. The design for the sludge facility at Area 6 is back on track. The City received about \$3.5 million in Stewardship funding this year and plans to move this project forward. It is being prepared for bidding.
2. A CDBG-DR Grant has been received for electrical upgrades, vacuum monitoring system, and flood wall at Area 6 plant. The design work is in progress and the bids for the Chemical Feed Upgrade Project are due in two weeks.

3. The design for the Area 3 WWTP expansion is nearly completed and permitting through FDEP is underway at this time. Another unexpected RAI (request for additional information) was received by FDEP in September. Our response team is working on a proposal for this required response.

## D. Grants Update Summary

1. We received notification of an award of \$3,500,000 for Stewardship this year! We plan to move the sludge handling facility forward with this grant money. It is expected to get to bid soon.