




## Utility Department Monthly Update

**MEETING DATE:** August 27, 2024

**TO:** Honorable Mayor and City Councilmembers

**FROM:** Daniel Saus, Utility Director 

**THROUGH:** George Garrett, City Manager

**SUBJECT:** July 2024 Utility Department Update

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### A. Wastewater Treatment Plants

#### 1. General Issues

- a. Flows were average for this time of year.
- b. The Chemical feed project and the electrical upgrades projects are both ongoing.

#### 2. Odor Complaints / Mitigation

- a. We received no odor complaints for the treatment plants in July.

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

The June 2024 wastewater facility performance chart is shown below because the April 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:

June 2024

| 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        | 0.283      | <2.0                   | 3.4                  | 1.00                   | 1.9                  | 0.14                   | 2.17                 | 0.70                   | 0.64                 |
| AREA 4      | 0.400        | 0.334      | <2.0                   | <2.0                 | 1.00                   | 2.1                  | 1.43                   | 1.07                 | 0.68                   | 0.42                 |
| AREA 5      | 0.450        | 4.35       | <2.0                   | <2.0                 | <1.0                   | 1.00                 | 0.50                   | 0.81                 | 0.89                   | 0.50                 |
| AREA 6      | 0.200        | 0.117      | 3.40                   | 3.2                  | 6.00                   | 1.4                  | 4.15                   | 1.40                 | 2.04                   | 0.60                 |
| AREA 7      | 0.200        | 0.034      | <2.0                   | 4.2                  | 1.00                   | 1.3                  | 0.67                   | 1.14                 | 0.53                   | 0.20                 |

## B. Collection System

1. The month of July had normal high tides and flows for this time of year.
  
2. Vacuum Station Salinities for July:
  - a. Vacuum station salinities at the plants were as follows (in parts per thousand): SA3: 1.9; SA4: 2.1; SA5: 5.2; SA6: 0.9 and SA7: 2.1. These values show a minimal level of infiltration.
  
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 still currently only 2 open code cases in process for failure to connect to the City's central wastewater system, code violations, or expired permits.

#### 5. Callouts

a. From July 1st to July 31st there were 32 documented Call outs for the entire Collections System. Of these, 13 were system generated typically a low vacuum detected at one of our Vacuum Stations. These 19 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. 7-2-24 1154 Camino Del Vientos The MOD phone received a call about a backup at the property. The tech responded and inspected the vacuum pit and cleanout. He found the unit to have a bad controller and valve. He replaced the controller and valve and put the unit back into service. No damage to property.
- ii. 7-3-24 1128 Calle Ensenada the MOD phone received a call about a backup at the property. The tech responded and inspected the vacuum pit and cleanout. He found the unit to have a bad controller, valve and surge suppressor. He replaced the components and put the unit back into service. No damage to property.
- iii. 7-4-24 239 46<sup>th</sup> St gulf the MOD phone received a call about a backup at the property. The tech responded and inspected the vacuum pit and cleanout. He found rocks and debris in the valve. He removed the debris and put the unit back into service. No damage to property.
- iv. 7-4-24 126 Mockingbird Ln the MOD phone received a call about a backup at the property. The tech responded and inspected the vacuum pit and cleanout. He found the unit to have a debris in the valve. He removed the debris and reseated the valve. No damage to property.
- v. 7-4-24 15 Ocean Breeze the MOD phone received a call about a backup at the property. The tech responded and inspected the vacuum pit and cleanout. He found the unit to have controller. He replaced the controller and put the unit back into service. No damage to property.
- vi. 7-6-24 2101 Sombrero Bch Rd the MOD phone received a call about a backup at the property. The tech responded and inspected the vacuum pit and cleanout. He found the unit to have a bad

- controller and valve. He replaced the controller, valve and put the unit back into service. No damage to property.
- vii. 7-15-24 122 Mockingbird Ln the MOD phone received a call about a backup at the property. The tech responded and inspected the lift station and found the clean out empty. Homeowners side issue. No damage to property.
  - viii. 7-15-24 4278 Gulfview Ave the MOD phone received a call about a backup at the property. The tech responded and inspected the vacuum pit and cleanout. He found the unit to have a bad controller, valve and surge suppressor. He replaced the components and put the unit back into service. No damage to property.
  - ix. 7-15-24 875 101<sup>st</sup> St the MOD phone received a call about a backup at the property. The tech responded and inspected the vacuum pit and cleanout. He found the unit to have a stuck valve. He replaced the valve and put the unit back into service. No damage to property.
  - x. 7-16-24 185 Coconut Ave The MOD phone received a call about a backup at the property. The tech responded and inspected the grinder pump station. He found the unit had a bad contactor and blown fuses. He replaced the contactor and fuses and the station tested ok. No damage to property.
  - xi. 7-16-24 115 Alynn Place the MOD phone received a call about a backup at the property. He found the unit to have a bad controller, valve and surge suppressor. He also found the lower chamber packed with non-flushable debris and grease. He replaced the components, pressure washed the lower chamber, and put the unit back into service. Minor sewage in fixtures but no damage to property.
  - xii. 7-16-24 101 11<sup>th</sup> St the MOD phone received a call about a backup at the property. The tech responded and inspected the vacuum pit and cleanout. He found the unit to have a bad controller. He replaced the controller and put the unit back into service. No damage to property.
  - xiii. 7-17-24 1571 Overseas the MOD phone received a call about a backup at the property. He found the unit to be inoperable. He replaced the controller, valve, ferncos, vacuum line and sensor tube. He put the unit back into service. No damage to property.
  - xiv. 7-19-24 25066 Th St the MOD phone received a call about a backup at the property. He found the unit to have a bad controller, valve and no hub. He replaced the components and put the unit back into service. No damage to property.
  - xv. 7-20-24 265 20<sup>th</sup> St the MOD phone received a call about a backup at the property. He found the unit to have a bad controller. He replaced the controller and put the unit back into service. No damage to property.

- xvi. 7-21-24 725 11<sup>th</sup> St the MOD phone received a call about a backup at the property. The tech responded and inspected the vacuum pit and cleanout. He found the unit in working order. He notified them it was a homeowner issue. No damage to property
- xvii. 7-21-24 3574 Overseas the MOD phone received a call about a backup at the property. The tech responded and inspected the vacuum pit and cleanout. He found the unit in working order. He notified them it was a homeowner issue. No damage to property.
- xviii. 7-29-24 1285 28<sup>th</sup> St the MOD phone received a call about a backup at the property. He found the unit to have a bad controller. He replaced the controller and put the unit back into service. No damage to property.
- xix. 7-30-24 12411 Overseas the MOD phone received a call about a backup at the property. He found the unit to have a bad controller. He replaced the controller and put the unit back into service. No damage to property.

## 6. Odor Complaints / Mitigation

We received no odor complaints in July for the collection system.

## C. Plant Upgrades & Construction Projects (No changes this month)

1. Due to the permitting issues for the Area 3 WWTP Upgrade project taking almost 3 years and with COVID delays and inflation, the project costs for this project have increased significantly. I've requested finance to investigate if we can transfer the ACOE grant money from the Area 6 Sludge Processing Facility project to this project. The Area 6 project is on the back burner until more funding is received.
2. A CDBG-DR Grant has been received for electrical upgrades, vacuum monitoring system, and flood wall at Area 6 plant. The flood wall is on hold for now due to the costs. The electrical upgrades bids were received, and an award was approved at the last council meeting.
3. The design for the Area 3 WWTP expansion is nearly completed and permitting through FDEP is underway at this time. We advertised the notification of "Intent to Issue" for the WWTP operating permits for Service Areas 3, 4, & 6 and remitted the proof to FDEP. The holds on our permits have been removed but are still in negotiations with FDEP on our permits for Areas 3, 4, & 6. **Status unchanged.**

## D. Grants Update Summary

1. Due to the permitting issues for the Area 3 WWTP Upgrade project taking almost 3 years and with COVID delays and inflation, the project costs for this project have increased significantly. I've requested finance to investigate if we can transfer the ACOE grant money from the Area 6 Sludge Processing Facility project to this project. The Area 6 project would then be put on the back burner until more funding is received.