




Utility Department Monthly Update

MEETING DATE: May 14, 2024

TO: Honorable Mayor and City Councilmembers

FROM: Daniel Saus, Utility Director 

THROUGH: George Garrett, City Manager

SUBJECT: March 2024 Utility Department Update

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 March.

3. Effluent Quality Report/Plant Performance

The March 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:

March 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	0.117	2.75	3.0	1.50	1.8	0.72	2.19	0.14	0.59
AREA 4	0.400	0.317	3.10	<2.0	1.60	2.2	0.85	0.90	0.10	0.42
AREA 5	0.450	0.362	<2.0	<2.0	1.55	1.0	1.13	0.80	0.78	0.45
AREA 6	0.200	0.116	4.25	2.7	<1.0	<1.0	1.46	1.38	0.28	0.50
AREA 7	0.200	0.065	3.55	4.0	1.40	1.3	2.10	1.16	0.32	0.16

B. Collection System

1. The month of March had normal high tides and flows.

2. Vacuum Station Salinities for March:
 - a. Vacuum station salinities at the plants were as follows (in parts per thousand): SA3: 1.85; SA4: 1.31; SA5: 2.84; SA6: 0.88 and SA7: 1.66. 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 March 1st to March 31st there were 49 documented Call outs for the entire Collections System. Of these, 33 were system generated typically a low vacuum detected at one of our Vacuum Stations. These 33 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. 3-13-24 575 W. 195th 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.
- ii. 3-14-24 599 W. 105th 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 valve, controller, and no-hub. He replaced the controller, valve and no-hub and put the unit back into service. No damage to property.
- iii. 3-16-24 6303 63rd 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.
- iv. 3-16-24 56283 Ocean Dr. 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 to have a bad pump. He replaced the pump and put the unit back into service. No damage to property.
- v. 3-16-24 122 Calle Ensueno 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.
- vi. 3-16-24 488 Ocean Terr. 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 city's lateral partially plugged. He jetted out the line and put the unit back into service. No damage to property.
- vii. 3-19-24 265 114th 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.

- viii. 3-21-24 12648 Overseas Hwy. The MOD phone received a call about a backup at the property. The tech responded and inspected the buffer tank and cleanout. He found the unit in working order. He notified them it was a homeowner issue. No damage to property.
- ix. 3-22-24 550 109th 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 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.
- x. 3-24-24 523 Avenida Primiceria 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 valve, controller, and no-hub. He replaced the controller, valve and no-hub and put the unit back into service. No damage to property.
- xi. 3-25-24 6209 Overseas Hwy. 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.
- xii. 3-25-24 815 100th 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 and valve. He replaced the controller and valve and put the unit back into service. Minor sewage in fixtures but no damage to property.
- xiii. 3-28-24 2223 Sombrero Beach 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 in working order. He notified them it was a homeowner issue. No damage to property.
- xiv. 3-28-24 7200 Aviation Blvd. 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.
- xv. 3-29-24 100 37th 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.
- xvi. 3-30-24 1468 Overseas Hwy. 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 valve, controller, and surge suppressor. He replaced the controller, valve and surge suppressor and put the unit back into service. No damage to property.

6. Odor Complaints / Mitigation

We received no odor complaints in March 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.

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.