




## Utility Department Monthly Update

**MEETING DATE:** March 8, 2022

**TO:** Honorable Mayor and City Councilmembers

**FROM:** Daniel Saus, Utility Director 

**THROUGH:** George Garrett, City Manager

**SUBJECT:** February 2021 Utility Department Update

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### A. Wastewater Treatment Plants

#### 1. General Issues

- a. The work continues for the Chemical Feed Upgrades project. Foundations are being laid out and constructed at this time.

#### 2. Odor Complaints / Mitigation

- a. We received no odor complaints for the wastewater treatment facilities in February.

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

The January 2022 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:

January 2022

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	0.204	1.0	1.5	0.5	0.7	0.82	1.62	0.405	0.748
AREA 4	0.400	0.328	1.0	1.1	1.35	0.8	0.80	1.1	0.448	0.207
AREA 5	0.450	0.336	1.0	1.6	0.5	0.7	0.81	1.1	0.250	0.300
AREA 6	0.200	0.086	1.00	1.7	0.5	0.8	1.16	1.20	0.64	0.401
AREA 7	0.200	0.051	1.00	2.0	0.5	0.5	0.82	1.17	0.38	0.255

## B. Collection System

1. The month of February had average flows for this time of year.
2. Vacuum Station Salinities for February:
  - a. August's vacuum station salinities were at as follows (in parts per thousand): A3: 2.5 SA4: 1.9; SA5: 3.3; SA6: 1.0 and SA7: 1.4. These values show marginal infiltration. We continue to look for the outstanding issues in that system. We have hired additional staff to find and address these leaks, most still left-over damages from Irma.
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 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 February 1st to February 28th there were 46 documented Call outs for the entire Collections System. Of these, 27 were system generated typically a low vacuum detected at one of our Vacuum Stations. These 27 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. 2-4-22: Backup Area 5. 566 85<sup>th</sup> Street Ocean. The MOD phone received a call about a backup at the property. The Tech responded. He found the valve and controller defective and replaced both parts. He put the vac pit back into service. No damage to property.

ii. 2-5-22: Backup Area 5. 9981 O/S Hwy. The MOD phone received a call about a backup at the property. The Tech responded. He found the valve and controller defective and replaced both parts. He put the vac pit back into service. No damage to property.

iii. 2-7-22: Backup Area 5 Remote. 497 91<sup>st</sup> Street Ocean. The MOD phone received a call about a backup at the property. The Tech responded. He found the valve and controller defective and replaced both parts. He put the vac pit back into service. No damage to property.

iv. 2-7-22: Backup Area 4. 207 Anglers. The MOD phone received a call about a backup at the property. The Tech responded. He found the valve and controller defective and replaced both parts. He put the vac pit back into service. No damage to property.

v. 2-8-22: Backup Area 3. 372 11<sup>th</sup> Street. The MOD phone received a call about a backup at the property. The Tech responded and inspected the vacuum pit and the cleanout. He found the unit to be in good working order. He let the property owner know to call a plumber.

vi. 2-11-22: Backup Area 3. 324 12<sup>th</sup> Street. The MOD phone received a call about a backup at the property. The Tech responded. He found the valve and controller defective and replaced both parts. He put the vac pit back into service. No damage to property.

vii. 2-11-22: Backup Area 4. 90 Calle Ensueno. The MOD phone received a call about a backup at the property. The Tech responded and inspected the

vacuum pit and the cleanout. He found the unit to be in good working order. He let the homeowner know to call a plumber.

viii. 2-12-22: Backup Area 5. 433 11<sup>th</sup> Street. The MOD phone received a call about a backup at the property. The Tech responded. He found the valve and controller defective and replaced both parts. He put the vac pit back into service. No damage to property.

ix. 2-12-22: Backup Area 4. Schmidt Plaza, 125 Mockingbird Ln. The MOD phone received a call about a backup at the property. The Tech responded and found the vac pit to be overwhelmed. He fired the vac pit manually to drain the water and put the unit back into service. No damage to property.

x. 2-12-22: Backup Area 3. 725 11<sup>th</sup> Street. The MOD phone received a call about a backup at the property. The Tech responded. He found the valve and controller defective and replaced both parts. He put the vac pit back into service. No damage to property.

xi. 2-13-22: Backup Area 6. 1565 122<sup>nd</sup> Street. The MOD phone received a call about a backup at the property. The Tech responded. He found the valve and controller defective and replaced both parts. He put the vac pit back into service. No damage to property.

xii. 2-14-22: Backup Area 5. The MOD phone received a call about a backup at the property. The Tech responded. He found the valve and controller defective and replaced both parts. He put the vac pit back into service. No damage to property.

xiii. 2-19-22: Backup Area 5. 938 92<sup>nd</sup> Street Ocean. The MOD phone received a call about a backup at the property. The Tech responded. He found the valve and controller defective and replaced both parts. He put the vac pit back into service. No damage to property.

xiv. 2-21-22: Alarm Area 7. 58632 O/S Hwy. The MOD phone received a call about an Alarm going off at the property on the Grinder Pump Station. The Tech responded. He found the Alarm Switch Defective and repaired the unit. No damage to property.

xv. 2-21-22: Backup Area 5. Triton's Seafood. 175 114<sup>th</sup> Street. The MOD phone received a call about a backup at the property. The Tech responded and inspected the vacuum pit and the cleanout. He found the unit to be in good working order. He let the business owner know to call a plumber.

xvi. 2-24-22: Backup Area 5. 204 Bruce Ct. The MOD phone received a call about a backup at the property. The Tech responded and inspected the vacuum pit and the cleanout. He found the unit to be in good working order. He let the homeowner know to call a plumber.

xvii. 2-25-22: Odor Complaint Area 4. 68 Tingler Ln. The MOD phone received an odor complaint stating that sewage was spilling into the canal from the sewer system. The Tech responded to the call and discovered that the smell

was due to low tide and sea grass decomposition. He explained to the renters that none of our sewer mains run behind houses and the smell was common in tidal areas.

xviii. 2-27-22: Backup Area 3. 481 22<sup>nd</sup> Street. The MOD phone received a call about a backup at the property. The Tech responded and inspected the vacuum pit and the cleanout. He found the unit to be in good working order. He let the homeowner know to call a plumber.

xix. 2-27-22: Backup Area 3. Castaway's Restaurant. The MOD phone received a call about a backup at the property. The Tech responded and inspected the vacuum pit and the cleanout. He found the unit to be in good working order. He let the business owner know to call a plumber.

6. Odor Complaints / Mitigation

b. We received no credible odor complaints in February 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. Design is at approx. 90%.
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 the required response which is now due May 9, 2022.
4. We received an RAI for Area 6 WWTP permit renewal similar to the one for Area 3. We responded February 16<sup>th</sup> using the STATE OF FLORIDA DIVISION OF ADMINISTRATIVE HEARINGS CASE NO. 14-5302 ORDER which allowed KWRU to get their shallow permitted in Monroe County.

## 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. We are hoping for another larger award next year.