



City of Montgomery

Operations Report

January 2023

12/18/22 – 01/17/23

District Alerts

12/19/2022 – Lift Station 2, High Wet Well

Operator responded to auto dialer call for high wet well level. Operator found lift pump #2 VFD tripped due to heavy rain in area. Reset lift pump #2 and pumped down to normal level. Monitored facility and no other issues found.

12/24/2022 – Water Plant 3, High HPT Level

Operator was notified of High HPT Level. Upon arrival the operator found air leak on top of HPT. HPT waterlogged and air line for future HPT valve had frozen and broken off. Isolated leak and put compressor back online. No further issues.

12/29/2022 – Water Plant 3, Backflow leak

Operator found backflow leaking and valve broken off from freezing temperatures. Took cooling towers offline and contractor repaired backflow. Cooling towers were placed back online and primed pumps. No other issues were found.

01/04/2023 – Lift Station 10, Lift Pump Failure

Operator responded to auto dialer call out regarding lift pump failure. Upon arrival, found pumps operating normal and alarm would not reset due to bad relay in control panel. Replaced relay and reset alarm, no further issues.

01/06/2023 – Water Quality, 290 Little Dog

Resident reported brown water. Technician flushed nearest hydrant until clear, no further issues.

01/07/2023 – Lift Station 3, High Wet Well

Operator responded to auto dialer call for high wet well level. Upon arrival both pumps were running and levels dropping. Monitored facility and reset equipment, no further issues reported.

01/11/2023 – Water Plants 2, 4, 5 & 6, No Power

Operator responded to No power alert. All facilities were without power due to bad weather. Once power was restored, all facilities returned to normal, and equipment was reset.

01/12/2023 – Water Plant 3, Water Leak

Operator found water leak inside booster pump and EDA control panel. Also, found leak on sensor line for GST #1. Repaired leaks and well operating normal, no further issues.

01/12/2023 – Water Quality, 114 Abner

Resident reported brown water. Technician flushed nearby hydrant until water was clear. No further issues.

01/13/2023 – Water Plant 3, Booster Pump

Operator noticed booster pump #2 has not run in last 4 days. Checked booster pump operations and found alternator not calling for booster pump #2. Contractor found bad alternator. Replaced alternator and put booster pump #2 back online. Monitored facility and booster pumps alternating normal, no other issues found.

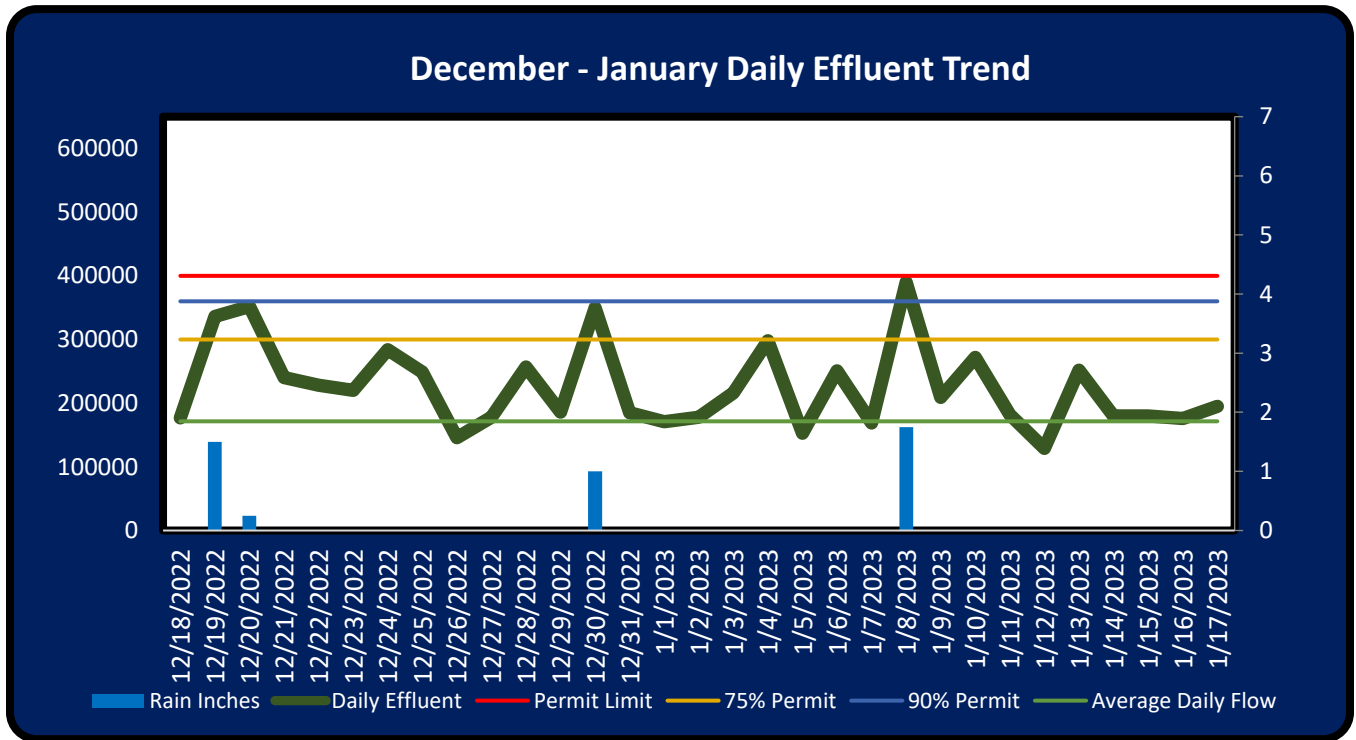
01/16/2023 – Water Plant 2, Leak on HPT

Residents reported that they heard water hammer and have brown water. Operator investigated, found leak on airline on top of HPT and HPT waterlogged making booster pumps short cycle. Took facility offline for repairs. Once repairs were completed, put facility back online. No further issues.

01/17/2023 – Water Plant 3, Leak on Backflow

Operator found backflow leaking from dump valve and scheduled repairs. Repairs were made and backflow is flowing normal, no further issues.

Wastewater Plant Flow Detail



- Flow for the month of December - January was 6,989,000 gallons
- Daily peak flow was January 8, 2023 was 390,000 gallons
- Average Daily Flow 225,500 gallons
 - 3-month average flow 215,167 gallons
 - 56% of permitted capacity


Discharge Limitations

- Daily Average Flow 400,000 gallons (0.4 MGD)
- 2-Hour Peak Flow 833 gpm
- CBOD daily average 10 mg/l
- Total Suspended Solids (TSS) 15 mg/l
- Ammonium Nitrogen (NH3) 2 mg/l
- Chlorine Residual >1.0 mg/l < 4.0 mg/l
- The current permit expires 05/10/2027

Effluent

TSS, DO, E.Coli, NH3N, PH sample results were all comfortable within the parameters set by the State of Texas.

Buffalo Springs WWTP Effluent Monitoring Report

Effluent Permitted Values	Parameter		Measured	Excursion
Average Monthly CBOD	10	mg/l	3.10	no
Average Monthly T.S.S.	15	mg/l	3.40	no
Average Monthly NH3	2	mg/l	0.62	no
Minimal CL2 Residual	1	mg/l	2.46	no
Max CL2 Residual	4	mg/l	3.99	no
Rainfall for the Month		4.50	inches	

There were no excursions for the month of January.

Water Report:

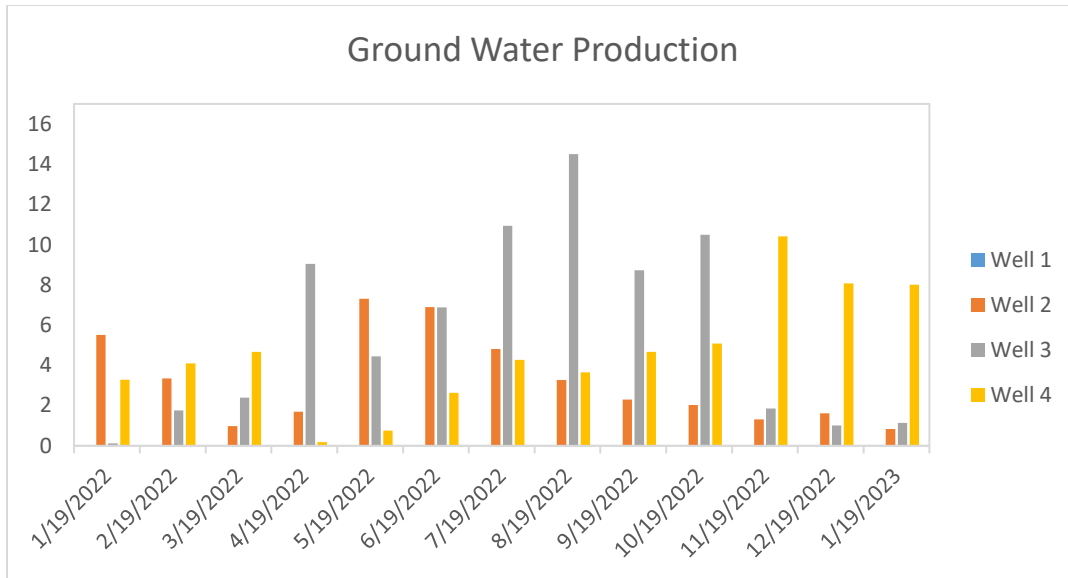
12/18/2022-01/17/2023

2022							
Well Name	Recorded Flow MGD	% of Total	Rating MGD/Day	YTD Pumpage MGD	YTD %	Permitted Value	Remaining Permit %
Well 2	0.843	5.54%	0.864	0.290	5.54%	92.930	99.59%
Well 3	1.140	1.82%	0.864	0.095	1.82%		
Well 4	8.010	92.64%	2.160	4.848	92.64%	90.000	94.61%
Total	9.993	100.00%	3.888	5.233	100%	122.651	
Flushing	0.371						
Subtotal	9.622						
Sold	8.440						
% Accounted	88%						

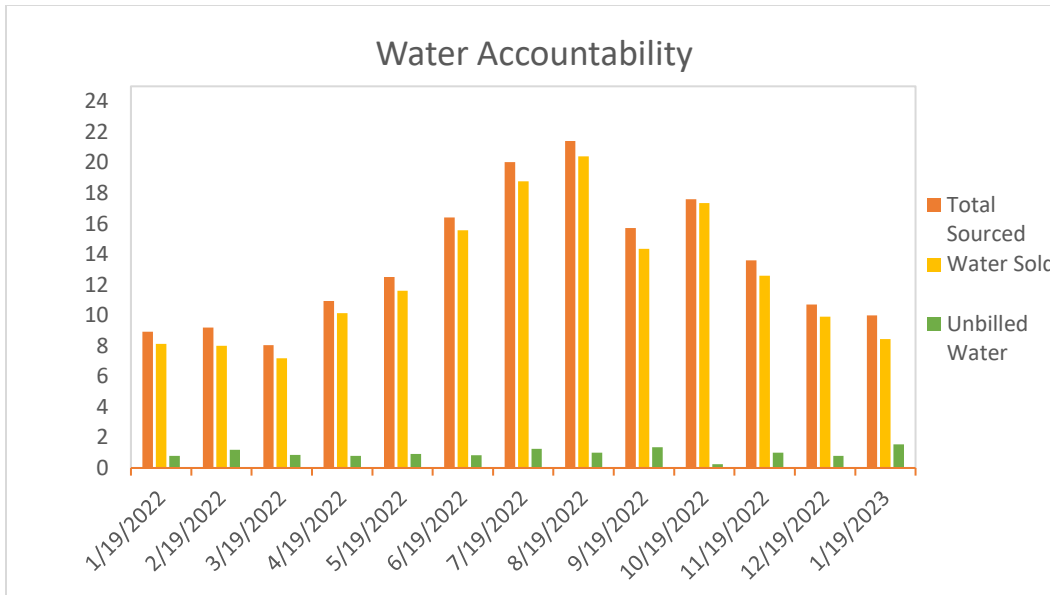
2022 YTD Pumpage	
K. Permit (Well 2 &3)	111.663
Jasper Permit (Well 4)	53.501
Total	165.164

CONNECTIONS	
School	12
Commercial Inside	172
Commercial Outside	2
Residential Inside	922
Residential Outside	29
Church	14
City	19
Hydrant	6
Multifamily	14
n/a	3
Total	1,193

Accountability	
Total Water Sourced	9.993
Flushing	0.371
Subtotal	9.624
Sold	8.440
Accountability %	88%



Date	Total	Well_1	Well_2	Well_3	Well_4
AVG	13.406	0.000	3.226	5.642	4.601
1/19/2022	8.916	0.000	5.511	0.124	3.281
2/19/2022	9.200	0.000	3.343	1.764	4.093
3/19/2022	8.036	0.000	0.977	2.394	4.665
4/19/2022	10.938	0.000	1.699	9.048	0.191
5/19/2022	12.517	0.000	7.318	4.445	0.754
6/19/2022	16.410	0.000	6.894	6.876	2.640
7/19/2022	20.039	0.000	4.814	10.944	4.281
8/19/2022	21.419	0.000	3.265	14.505	3.649
9/19/2022	15.715	0.000	2.306	8.734	4.675
10/19/2022	17.598	0.000	2.024	10.497	5.077
11/19/2022	13.600	0.000	1.318	1.861	10.421
12/19/2022	10.267	0.000	1.623	1.018	8.071
1/19/2023	9.622	0.000	0.843	1.14	8.010
Total	174.277	0.000	41.935	73.350	59.808



Date	Accountability	Unaccounted	Total Sourced	Water Sold	Flushing/ Leaks	Unbilled Water
1/19/2022	96%	0.401	8.916	8.125	0.39	0.791
2/19/2022	103%	-0.237	9.200	8.002	1.435	1.198
3/19/2022	96%	0.327	8.036	7.184	0.525	0.852
4/19/2022	96%	0.447	10.938	10.140	0.351	0.798
5/19/2022	98%	0.202	12.517	11.603	0.712	0.914
6/19/2022	96%	0.594	16.410	15.579	0.237	0.831
7/19/2022	96%	0.774	20.039	18.777	0.488	1.262
8/19/2022	97%	0.706	21.419	20.422	0.291	0.997
9/19/2022	93%	1.058	15.715	14.364	0.293	1.351
10/19/2022	100%	-0.023	17.598	17.352	0.269	0.246
11/19/2022	95%	0.717	13.600	12.594	0.289	1.006
12/19/2022	96%	0.384	10.712	9.917	0.411	0.795
1/19/2023	88%	1.184	9.993	8.440	0.371	1.553