



# JOINT WATER/SEWER BOARD OF THE CITY OF BUCHANAN AND BUCHANAN TOWNSHIP

MONDAY, NOVEMBER 06, 2023 – 7:00 AM

CHAMBER OF BUCHANAN CITY HALL - 302 N REDBUD TRAIL, BUCHANAN MI

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## AGENDA

THE JOINT WATER SEWER BOARD OF THE CITY OF BUCHANAN AND BUCHANAN TOWNSHIP, in compliance with the Open Meetings Act, hereby gives notice of a regular meeting to be held in the Chamber of Buchanan City Hall.

\* Comments may be submitted in writing at least 72 hours in advance to the City Clerk at [clerk@cityofbuchanan.com](mailto:clerk@cityofbuchanan.com)

**I. Call to Order**

**II. Pledge of Allegiance**

**III. Roll Call**

**IV. Approve Agenda**

**V. Public Comment - Agenda Items Only**

**VI. Approve Minutes**

**A. Consider approving the JWSB minutes from August 21, 2023.**

**VII. Unfinished Business**

**A. Discussion concerning Life Action Camp connection to the city WWTP via the Twp's infrastructure- City Manager, Benjamin Eldridge**

**B. General discussion and assessment of system expansion opportunities- City Manager, Benjamin Eldridge**

**VIII. New Business**

**A. Water Department Report- Craig Miller, Operator in Charge**

**B. Waste Water Department Report- Andy Warner, Operator in Charge**

**IX. Public Comment - Non-Agenda Items Only**

**X. Adjournment**



# JOINT WATER/SEWER BOARD OF THE CITY OF BUCHANAN AND BUCHANAN TOWNSHIP

MONDAY, AUGUST 21, 2023 – 7:00 AM

CHAMBER OF BUCHANAN CITY HALL - 302 N REDBUD TRAIL, BUCHANAN MI

## MINUTES

THE JOINT WATER SEWER BOARD OF THE CITY OF BUCHANAN AND BUCHANAN TOWNSHIP, in compliance with the Open Meetings Act, hereby gives notice of a regular meeting to be held in the Chamber of Buchanan City Hall.

\* Comments may be submitted in writing at least 72 hours in advance to the City Clerk at [clerk@cityofbuchanan.com](mailto:clerk@cityofbuchanan.com)

### I. Call to Order

The meeting was called to order at 7:00 AM by Chairperson Gordon.

### II. Pledge of Allegiance

Gordon led in the Pledge of Allegiance.

### III. Roll Call

**Present:** Chairperson/Buchanan Township Trustee Tom Gordon, Buchanan Township Supervisor Mindy Cole-Crocker, City Commissioner Patrick Swem, City Commissioner Dan Vigansky & Brian Murphy

**City Staff:** City Manager, Benjamin Eldridge; City Clerk, Kalla Langston; Operator in Charge/ Water Department, Craig Miller; Operator in Charge/ Wastewater Department, Andy Warner.

### IV. Approve Agenda

Motion made by Vigansky, supported by Cole-Crocker to approve the agenda as presented. Voice vote carries unanimously.

### V. Public Comment - Agenda Items Only

### VI. Approve Minutes

**A. 1) Consider approving JWSB Minutes from February 6th, 2023.**

**2) Consider approving JWSB Minutes from May 15th, 2023.**

Motion made by Cole-Crocker, supported by Swem to approve the February 6<sup>th</sup>, 2023, and the May 15<sup>th</sup>, 2023, Minutes, as presented. Voice vote carries unanimously.

### VII. Unfinished Business

### VIII. New Business

**A. Introduction to Tap-in Procedure for Township & City Residents, City Clerk Kalla Langston**

Langston presented the Tap-in procedure as the following.

*Township Resident Procedure to Tap-in to City Water/Sewer Services*

1) Permit & Authorization for new connection to public water/ and or sewer need to be pulled at the Township. The township will provide the Authorization and Permit to residents.

2) The Township Resident would then take proper documents to City Hall; Clerk Cashier will not process unless the resident has those documents in hand.

*Plumbing*

3) If the resident has the permit and authorization, the Clerk Cashier will then proceed to process the **Tap & Meter Application**. The Clerk Cashier will give a copy of the tap & meter application to the Water Department.

- 4) The Water Department will fill out the Field Date on the **Tap & Meter Application** once the tap-in is completed. The Water Department will not allow tap ins without having this document on file with them.
- 5) The Water Department will then give the completed application to the clerk cashier to start the billing process for the property.
- 6) The clerk cashier will then send the completed **Tap & Meter Application** to the Township for their records. While the original will be filed in the City with that property’s water/sewer file, along with the permits pulled and the authorization from the Township.
- 7) If tapping into Sewer the resident will be given the application for sanitary sewer (sewer sketch and info) and a sewer use survey and asked to return within 14 days of tap-in.

**City Resident Procedure to Tap into Water/Sewer Services**

- 1) Plumbing Permit needs to be pulled for any tap-in.
- 2) Once Permit is filed **Tap & Meter Application** will be processed by Clerk Cashier.
- 3) Once the Permit and Application is processed, the Clerk Cashier will then give a copy of the **Tap & Meter Application** to the Water Department.
- 4) The Water Department will fill out the Field Date on the **Tap & Meter Application** once tap-in is completed. The Water Department will not allow tap-ins without having this document on file.
- 5) The Water Department will then give the completed application to the clerk cashier to start the billing process for the property.
- 6) If tapping into Sewer the resident will be given the Application for Sanitary Serwer (sewer sketch and info) and a sewer use survey and asked to return within 14 days of tap-in.

**1. Consider Recommending Tap-in Procedure to Buchanan City Commission and Buchanan Twp. Board of Trustees.**

Swem would like the procedural change to add the township to contact the city with final inspection date. Motion made by Vigansky, supported by Cole-Crocker to recommend for approval to the City Commission and the Board of Trustees for final approval, with the addition of the township contacting the city with final inspection into the policy. Roll call vote carries unanimously.

**B. Water Department Report- Craig Miller, Operator in Charge**

Miller reported on the Water Department. Three fire hydrants that were not operable were changed out. Locations on the fire hydrants were Main St, Third St, and Forth St. The water towers were inspected by Dixon no major issues were found. The towers were inspected using underwater cameras, that way they could be inspected without draining. They have installed a new water source at Victory Park. All water samples for EGLE (including Lead/Copper) are complete. The department also fixed leaking valves at Fireman Park, Clark St., and Oak St. They also accomplished 10 new meter change outs. Assisted three companies with water/sewer location for expanding businesses.

Well 4A failed on monthly bacti samples twice. That well has been pulled and the city is working on the solution with Peerless. The new meter at Clark Labs has been installed. 5 services of Clark St. were potholed, no lead was found. Dylan Thomas (water operator) is getting ready for testing this fall. Miller also reviewed the water loss report with the board.

\* Note Commissioner Swem had to leave at 8:27 A.M. due to another meeting.

**C. Wastewater Report- Andy Warner, Operator in Charge**

Warner went over his written report to the Board.

**1) Septage**

In the first 7 months of 2023 we received 284,800 gallons of septage. 163,200 gallons since the last report  
In the first 7 months of 2023 we billed \$21,381.50 for septage. \$12,759.50 since the last report  
For July 2022 – June 2023 we billed \$30,368.00 for septage.

## 2) Compliance Reports

DMRs have been submitted for the months of April, May, June, and July. A PFAS Pollutant Minimization, Source Evaluation, and Reduction Program Plan was submitted to EGLE. The Asset Management Annual Report was submitted to EGLE and the ongoing IPP PFAS Status Report was submitted to EGLE.

## 3) NPDES Requirements

Plant effluent was sampled and tested for copper concentration.

Plant sludge was sampled and tested for mercury concentration.

Plant influent and effluent were sampled and tested for mercury concentration.

Plant influent and effluent were sampled and tested for PFAS concentrations.

## 4) Maintenance Items

A rotating assembly failed in one of the Schirmer Lift Station T4 pumps. The rotating assembly was removed from the grit lift pump and put into the Schirmer pump to keep the lift station operational. We continue to wait for our new T4 rotating assemblies (2) to arrive so that we can put our grit removal system back into operation. The light fixture was repaired at Schirmer lift station.

The fuel sending unit was replaced in the Kubota. Clarifiers, weirs, and launders were cleaned.

Telephone poles were cut to size and added to the retaining wall at the bottom of the hill to help with the washouts.

Solids were removed from Schirmer, Mill Pond, and Industrial lift stations. A module was replaced in one of our panels.

The entire SCADA system was down for several days. Windemuller did not know why the component failed.

Blown fuses were replaced twice in one of our panels. The blown fuses prevented the scum pumps from running automatically.

A tire puncture was repaired on the 2017 F250. All floats in the Glaser Lift Station wet well were replaced. Brush was cut back from the fence line and mower blades were sharpened.

A load of scrap was taken to Padnos. The air release valve on the discharge pipe for the headworks was flushed to remove solids buildup. A new backup battery was installed at the Mill Pond Lift Station. The operator interface at Mill Pond Lift Station failed. A working interface was removed from the beds lift station at the plant and installed at Mill Pond. A motor starter was replaced in the beds lift station.

Numerous routine preventative maintenance tasks.

## 5) Sludge Disposal

In May – July we pressed 574,748 gallons of sludge. 1,042,000 gallons total for 2023

In May – July we sent 249 tons of dewatered sludge to the landfill. 412 tons total for 2023

For the fiscal year July 2022 – June 2023 we spent \$26,747.74 on sludge disposal.

## 6) Landfill Leachate

In May – July the landfill was billed \$59,736.24.

For the fiscal year July 2022 – June 2023 the landfill was billed \$261,642.12.

The Sewer Maintenance & Operation amended budget for the 2022-23 fiscal year as reported on 4/14/23 was \$927,039.00.

## 7) PFAS

In both April and July of 2023 our effluent was found to contain 13 ng/L PFOS. EGLE sets a water quality-based effluent limitations (WQBELs) for PFOS at 12 ng/L

Because we have exceeded the WQBWLs for PFOS we were required to submit a PFAS Pollutant Minimization, Source Evaluation, and Reduction Program Plan to EGLE

EGLE is requiring us to establish local limits for PFAS. Establishing local limits requires repeated testing of influent, effluent, sludge, and the collection system for PFAS. How we are to sample for the testing is described in the Michigan Administrative Code Part 23 Section R 323.2303.4.b. We are going with option ii. Sampling is being conducted August 7<sup>th</sup> through September 1<sup>st</sup>.

## 8) Rain Event

We had a big rain event on the night of 7/28-29. The plant received about 80% more water on 7/29 than usual.

Inflow & Infiltration should not be that extreme. Hopefully completion of the downtown project will reduce the I&I

River Shores lift station normally runs about 40 minutes a day. On 7/29 it ran 4 hours and 56 minutes. We may want to consider addressing the inflow issue at River Shores lift station.

I was out of town on vacation when the rain event occurred. Terry ended up working a 13.5-hour day. He had to turn off all the lift stations that feed into Schirmer lift station to prevent Schirmer from overflowing and then monitor the lift stations to ensure that they did not overflow. He also had to respond to multiple lift stations alarms due to power blips causing them to trip. He was able to complete labs in between running back and forth between lift stations.

**IX. Public Comment - Non-Agenda Items Only**

**X. Adjournment**

Gordon adjourns the meeting at 8:27 A.M.

**NOTES FROM 2018 SAW REVIEW**

Current Firm  
Capacity

The design flow is based on full build-out of LAC at 36,973gpd with a peaking factor of 4 and, since I/I is an issue in the City, should be put into the City's sanitary system model to verify capacity of the downstream system. The estimates below are construction cost and contingencies and engineering will be added to the final estimates.

**Post LS Upgrades**

140 gpm Unit Cost

Replace Control Panel & Refurbish	LS	1	\$ 170,000.00	\$ 170,000.00
Replace Force Main	LF	1730	\$ 150.00	\$ 259,500.00
Replace Pumps	EA	2	\$ 30,000.00	\$ 60,000.00
				<b>\$ 489,500.00</b>

The Post LS discharges into an 8" gravity sewer. Assuming minimum slope of 0.4%, the capacity of the gravity line would be adequate but there may be I/I issues as the capacity report says 0-250gpm available so we need to know what the actual number is. Additional flow from LAC at full buildout will be 103gpm peak and current firm capacity is 180gpm so we're assuming a total of 283gpm total is required and this can be accomplished by replacing pumps and the force main.

**Glaser Lift Station Replacement**

300 gpm

Glaser - Full Station Replacement	LS	1	\$ 600,000.00	\$ 600,000.00
Replace FM	LF	545	\$ 150.00	\$ 81,750.00
				<b>\$ 681,750.00</b>

The Glaser LS is in need of full replacement per the SAW report. The flow study states 300gpm firm capacity but the pumps are discharging at 91 and 122gpm and there is no date for the drawdown test. Discharge is into a 12" gravity sewer and, assuming minimum slope of 0.22% capacity should be adequate.

**Industrial LS Upgrades**

180 gpm

Replace Pumps	EA	2	\$ 30,000.00	\$ 60,000.00
Replacements per SAW	LS	1	\$ 50,000.00	\$ 50,000.00
				<b>\$ 110,000.00</b>

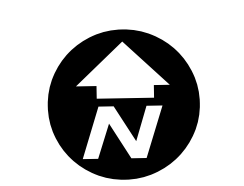
Industrial LS is in fair condition. Valves and piping are corroding, possible infiltration. Received scope of planned improvements from City and added new pumps and discharge piping to meet proposed flow.

# City of Buchanan

Berrien County, Michigan

## Wastewater Collection System Map 2: Pipe Diameter

Prein&Newhof  
November 2018  
2130386



600 300 0 600 Ft  
Scale: 1" = 600'

**LEGEND**

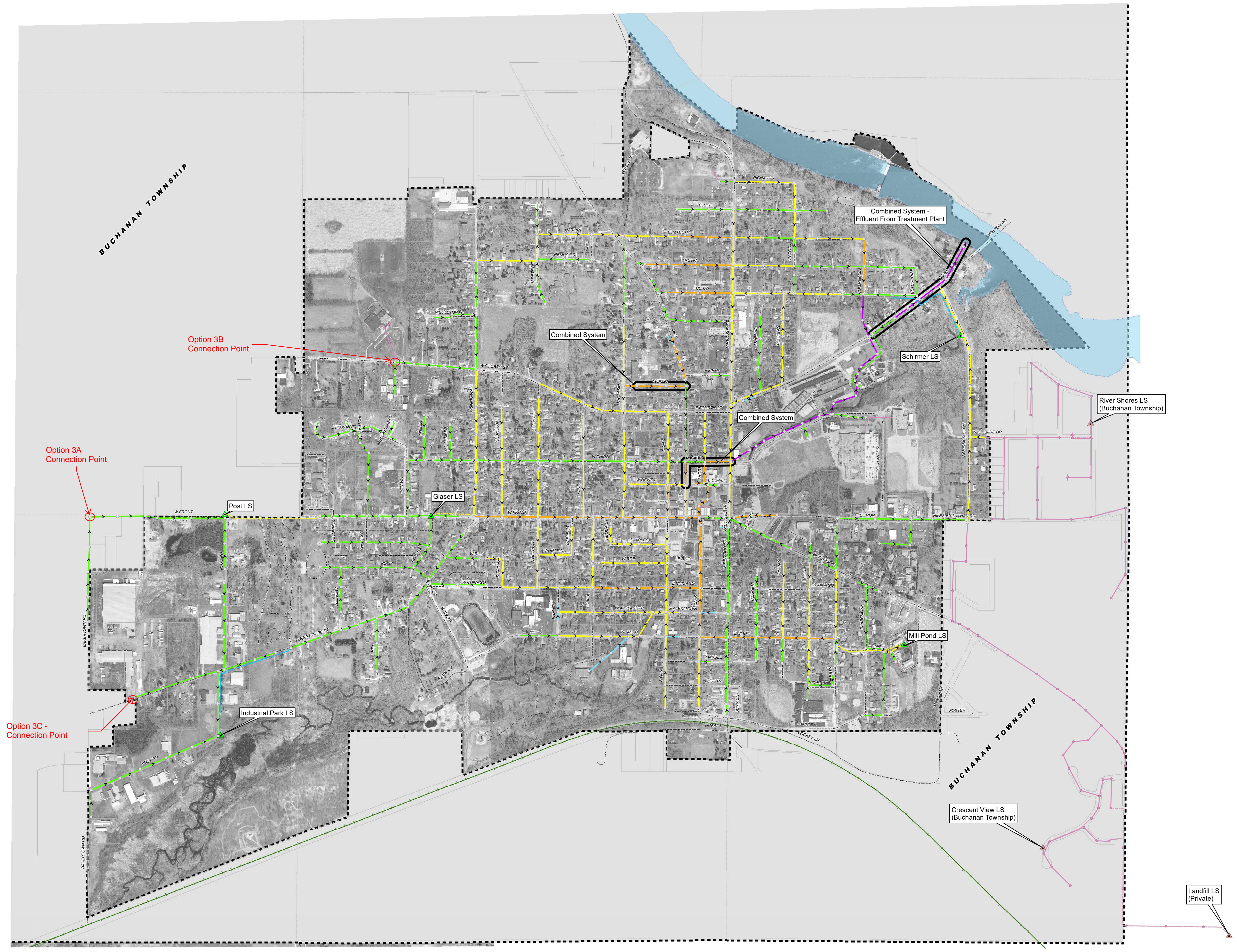
**Gravity Sewer - Diameter**

- 6"
- 8"
- 10"
- 12"
- 15" & 18"

**Force Main - Diameter**

- 4"
- 6"
- 12"

- City of Buchanan Sanitary Manhole
- City of Buchanan Lift Station
- Sanitary Manhole Owned by Others
- Lift Station Owned by Others
- Sanitary Sewer Owned by Others
- Force Main Owned by Others
- City of Buchanan Limits



City of Buchanan  
 Water & Sewer Enterprise  
 Performance Compared to Gallons Billed Monthly

		2023			
Starting Date	Ending Date	Gallons Pumped	Gallons Billed	% Lost	
12/28/2022	1/27/2023	23.56	7.426	68%	
1/28/2023	2/27/2023	20.55	7.147	65%	
2/28/2023	3/27/2023	22.31	64.04	-187%	
3/28/2023	4/27/2023	23.04	7.4	68%	
4/28/2023	5/30/2023	11.93	8.821	26%	
5/31/2023	6/27/2023	12.86	9.798	24%	main break
6/28/2023	7/26/2023	13.93	8.899	36%	Thrill on Hill 2. mill
7/27/2023	8/25/2023	11.25	10.141	10%	
8/26/2023	9/25/2023	9.95	9.978	0%	
				#DIV/0!	
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		149.38	133.65	11%	
		2022			
Starting Date	Ending Date	Gallons Pumped	Gallons Billed	% Lost	
12/24/2021	1/25/2022	16.71	7.456	55.38%	
1/26/2022	2/25/2022	17.326	7.516	56.62%	
2/26/2022	3/27/2022	18.867	7.041	62.68%	
3/29/2022	4/29/2022	19.314	6.733	65.14%	Deduct 1M gallons for Hydrant Flushing
4/27/2022	5/26/2022	19.473	7.869	59.59%	
5/27/2022	6/27/2022	23.099	9.004	61.02%	
6/26/2022	7/27/2022	23.956	10.131	57.71%	
7/28/2022	8/29/2022	24.835	10.4	58.12%	Deduct 1M Gallons for Thrill on Hill
8/30/2022	9/30/2022	22.835	7.214	68.41%	
9/30/2022	10/27/2022	17.674	6.955	60.65%	



10/28/2022	11/29/2022	21.001	7.295	65.26%	Deduct 1M gallons for Hydrant Flushing
11/30/2022	12/27/2022	20.128	7.664	61.92%	
Total		245.218	95.278	61.15%	

2021

Starting Date	Ending Date	Gallons Pumped	Gallons Billed	% Lost	
12/24/2020	1/25/2021	12.337	8.398	31.93%	
1/26/2021	2/24/2021	11.005	7.478	32.05%	
2/25/2021	3/29/2021	12.651	8.122	35.80%	
3/30/2021	4/27/2021	10.82	7.066	34.70%	Deduct 1M Gallons for Hydrant Flushing
4/28/2021	5/27/2021	13.423	8.45	37.05%	Deduct .650 MG for WWTP fill
5/28/2021	6/28/2021	14.721	10.742	27.03%	
6/29/2021	7/28/2021	11.565	8.74	24.43%	
7/29/2022	8/24/2022	12.308		#VALUE!	Accounting software issue, don't know gallons billed.
8/25/2021	9/27/2021	13.14	8.708	33.73%	
9/28/2021	10/25/2021	10.675	9.606	10.01%	
10/26/2021	11/24/2021	10.207	7.583	25.71%	
11/25/2021	12/23/2021	10.462	6.983	33.25%	
Total		143.314	91.876	35.89%	

2020

Starting Date	Ending Date	Gallons Pumped	Gallons Billed	% Lost	
12/24/2019	1/24/2020	11.09	8.523	23.15%	
1/25/2020	2/25/2020	15.464	8.349	46.01%	
2/26/2020	3/26/2020	9.944	7.879	20.77%	
3/27/2020	4/26/2020	13.842	8.134	41.24%	Deduct 1M Gallons for Hydrant Flushing
4/27/2020	5/26/2020	9.383	7.873	16.09%	Reduction after first meeting with Clark Testing
5/27/2020	6/24/2020	10.787	9.39	12.95%	
6/25/2020	7/27/2020	13.491	12.278	8.99%	
7/28/2020	8/28/2020	12.633	10.296	18.50%	
8/29/2020	9/29/2020	12.257	9.009	26.50%	
9/30/2020	10/27/2020	9.523	7.188	24.52%	Deduct 1M Gallons for Hydrant Flushing

10/28/2020	11/23/2020	8.58	7.049	17.84%
11/24/2020	12/23/2020	10.953	6.81	37.83%
Total		126.857	94.255	25.70%

2019					
Starting Date	Ending Date	Gallons Pumped	Gallons Billed	% Lost	
12/21/2018	1/28/2019	15.278	9.472	38.00%	
1/29/2019	2/25/2019	12.171	7.476	38.58%	
2/26/2019	3/26/2019	14.1	7.202	48.92%	
3/27/2019	4/25/2019	12.883	7.301	43.33%	Deduct 1M Gallons for Hydrant Flushing
4/26/2019	6/24/2019	21.071	16.376	22.28%	Combined due to Sensus/Fund Balance fiasco
6/25/2019	7/24/2019	13.16	10.248	22.13%	
7/25/2019	8/27/2019	15.409	10.843	29.63%	Deduct 1M gal. for TOTH
8/28/2019	9/23/2019	11.986	8.345	30.38%	
9/24/2019	10/28/2019	11.954	9.845	17.64%	Deduct 1M gal. for Hydrant Flushing
10/29/2019	11/22/2019	8.009	6.605	17.53%	
11/23/2019	12/23/2019	9.964	8.183	17.87%	
Total		145.985	101.896	30.20%	

City of Buchanan  
 Water & Sewer Enterprise  
 Reported Compared to Gallons Billed Monthly

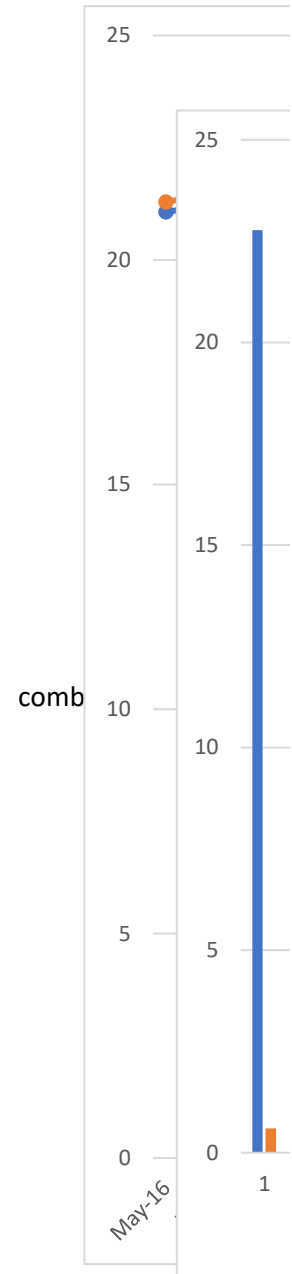
2018					
Starting Date	Ending Date	Gallons Pumped	Gallons Billed	% Lost	
12/22/2017	1/25/2018	22.771	9.052	60.25%	Main Break on Fourth St.
1/26/2018	2/22/2018	22.429	7.25	67.68%	Main Break on Fourth St.
2/23/2018	3/26/2018	18.172	7.885	56.61%	Main Break on Fourth St.
3/27/2018	4/24/2018	9.469	6.915	26.97%	Deduct 1M Gallons for Hydrant Flushing
4/25/2018	5/25/2018	18.783	7.89	57.99%	
5/26/2018	6/26/2018	22.285	9.92	55.49%	
6/27/2018	7/26/2018	19.759	9.901	49.89%	

7/27/2018	8/26/2018	17.995	9.8	45.54%	Deduct 1M gal. for TOTH
8/27/2018	9/25/2018	11.392	7.917	30.50%	
9/26/2018	10/26/2018	10.375	7.899	23.87%	Deduct 1M Gallons for Hydrant Flushing
10/27/2018	11/27/2018	12.13	7.781	35.85%	
11/28/2018	12/21/2018	10.078	5.824	42.21%	
Total		195.638	98.034	49.89%	

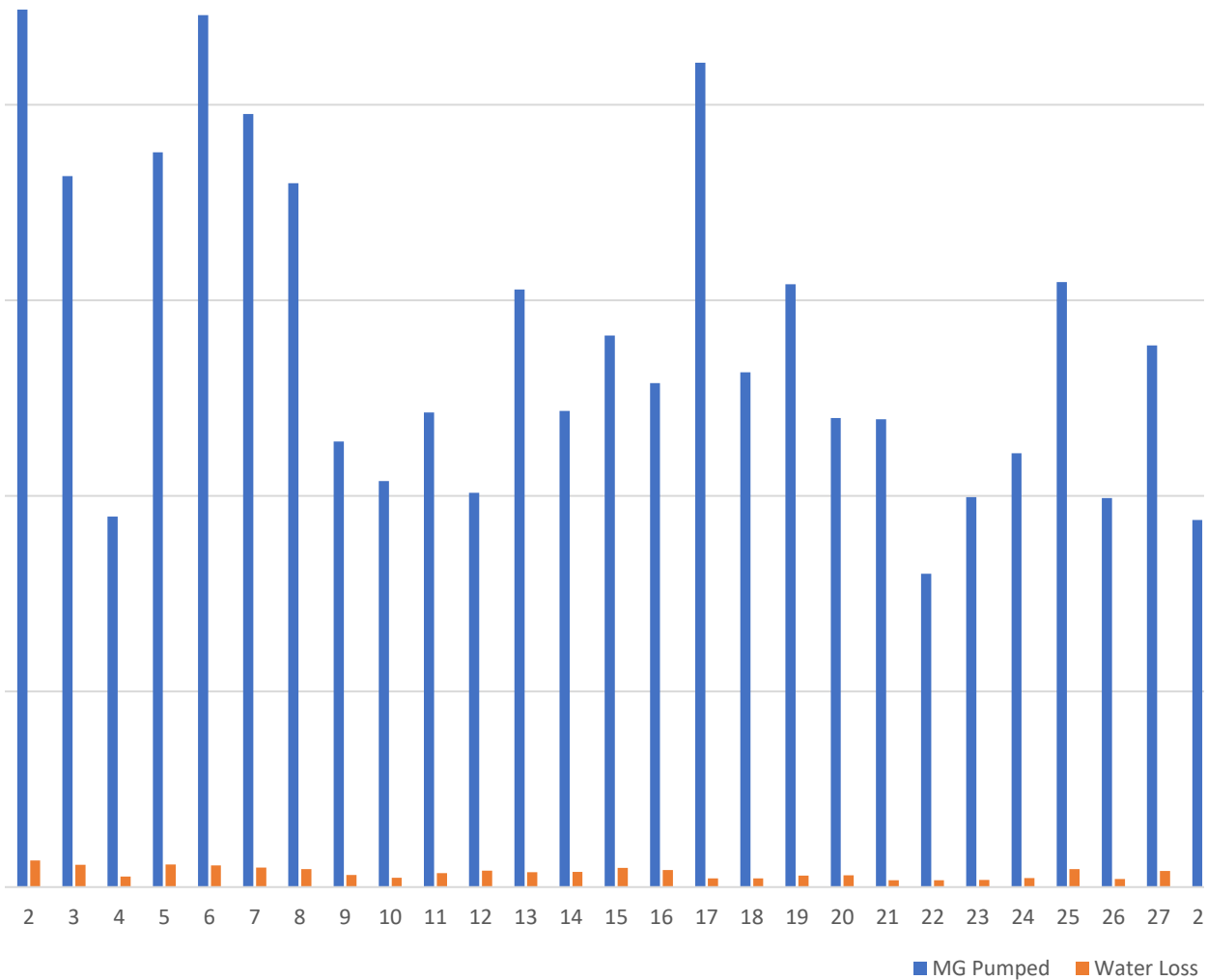




Month			MG Pumped	MG Billed	Water Loss
Jan-18	12/22/2017	1/25/2018	22.771	9.052	60.25%
Feb-18	1/26/2018	2/22/2018	22.429	7.25	67.68%
Mar-18	2/23/2018	3/26/2018	18.172	7.885	56.61%
Apr-18	3/27/2018	4/24/2018	9.469	6.915	26.97%
May-18	4/25/2018	5/25/2018	18.783	7.89	57.99%
Jun-18	5/26/2018	6/26/2018	22.285	9.92	55.49%
Jul-18	6/27/2018	7/26/2018	19.759	9.901	49.89%
Aug-18	7/27/2018	8/26/2018	17.995	9.8	45.54%
Sep-18	8/27/2018	9/25/2018	11.392	7.917	30.50%
Oct-18	9/26/2018	10/26/2018	10.375	7.899	23.87%
Nov-18	10/27/2018	11/27/2018	12.13	7.781	35.85%
Dec-18	11/28/2018	12/21/2018	10.078	5.824	42.21%
Jan-19	12/21/2018	1/28/2019	15.278	9.472	38.00%
Feb-19	1/29/2019	2/25/2019	12.171	7.476	38.58%
Mar-19	2/26/2019	3/26/2019	14.1	7.202	48.92%
Apr-19	3/27/2019	4/25/2019	12.883	7.301	43.33%
May-16	4/26/2019	6/24/2019	21.071	16.376	22.28%
Jul-19	6/25/2019	7/24/2019	13.16	10.248	22.13%
Aug-19	7/25/2019	8/27/2019	15.409	10.843	29.63%
Sep-19	8/28/2019	9/23/2019	11.986	8.345	30.38%
Oct-19	9/24/2019	10/28/2019	11.954	9.845	17.64%
Nov-19	10/29/2019	11/22/2019	8.009	6.605	17.53%
Dec-19	11/23/2019	12/23/2019	9.964	8.183	17.87%
Jan-20	12/24/2019	1/24/2020	11.09	8.523	23.15%
Feb-20	1/25/2020	2/25/2020	15.464	8.349	46.01%
Mar-20	2/26/2020	3/26/2020	9.944	7.879	20.77%
Apr-20	3/27/2020	4/26/2020	13.842	8.134	41.24%
May-20	4/27/2020	5/26/2020	9.383	7.873	16.09%
Jun-20	5/27/2020	6/24/2020	10.787	9.39	12.95%
Jul-20	6/25/2020	7/27/2020	13.491	12.278	8.99%
Aug-20	7/28/2020	8/28/2020	12.633	10.296	18.50%
Sep-20	8/29/2020	9/29/2020	12.257	9.009	26.50%
Oct-20	9/30/2020	10/27/2020	9.523	7.188	24.52%
Nov-20	10/28/2020	11/23/2020	8.58	7.049	17.84%
Dec-20	11/24/2020	12/23/2020	10.953	6.81	37.83%
Jan-21	12/24/2020	1/25/2021	12.337	8.398	31.93%
Feb-21	1/26/2021	2/24/2021	11.005	7.478	32.05%
Mar-21	2/25/2021	3/29/2021	12.651	8.122	35.80%
Apr-21	3/30/2021	4/27/2021	10.82	7.066	34.70%
May-21	4/28/2021	5/27/2021	13.423	8.45	37.05%
Jun-21	5/28/2021	6/28/2021	14.721	10.742	27.03%
Jul-21	6/29/2021	7/28/2021	11.565	8.74	24.43%

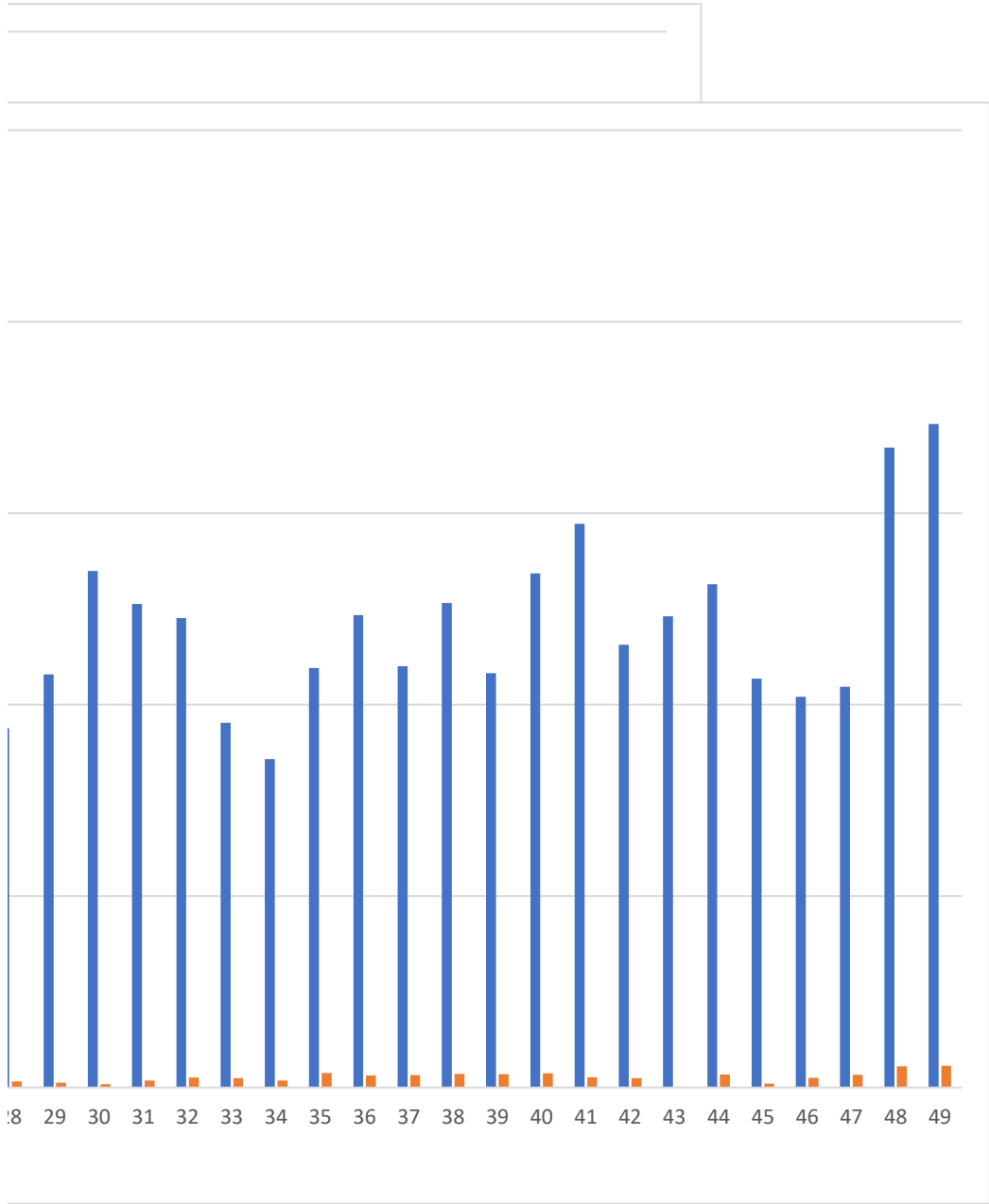


Aug-21	7/29/2022	8/24/2022	12.308		#VALUE!
Sep-21	8/25/2021	9/27/2021	13.14	8.708	33.73%
Oct-21	9/28/2021	10/25/2021	10.675	9.606	10.01%
Nov-21	10/26/2021	11/24/2021	10.207	7.583	25.71%
Dec-21	11/25/2021	12/23/2021	10.462	6.983	33.25%
Jan-22	12/24/2021	1/25/2022	16.71	7.456	55.38%
Dec-22	1/26/2022	2/25/2022	17.326	7.516	56.62%









## JWSB REPORT

The water dept. has been keeping busy with 4 meter installs. We have dug up 6 water services to repair shut off valves. Replaced 2 sidewalks. We have been working hard to get all meters that are not reading fixed. Getting people to respond to door cards has been an issue.

We were able to get a few potholes done for the state, we hope to get more done before snow starts falling.

Well 4A is now back in service. The pump was pulled and cleaned and ran a camera in the well.

Hydrant flushing was the week of 10/2. This went well.

We have a lead line replacement coming up next week.

Fixed a broken hydrant . We have all the parks and cemetery water shut off for winter. The WHPP book is now here and im working on finishing up some task that needs done. Water loss for this month is now at Zero!

This is a big step for the City. With Clark now being metered and a water leak fixed helped this number a lot.

Replace 2 meter heads that were dead. West winds was one of them they are a big water user. I have 5 more heads on order to replace the ones that have died.

## Joint Water Sewer Board

### Wastewater Report

### October 2023

#### 1) Septage

- As of 10/16 we have received \$28,418.00 worth of septage in 2023
- \$7,234.50 since the last report

#### 2) Compliance Reports

- DMRs have been submitted for the months of August and September
- The Annual Biosolids DMR was submitted for the time period 10/1/22 – 9/30/23
- A PFAS POTW Effluent Monitoring Report was submitted
- The 2023 Biosolids Annual Report was submitted

#### 3) IPP

- EGLE performed an IPP inspection in August. Terri Shattuck wanted to review the landfill discharge permit and our Enforcement Response Plan
- A new DRAFT landfill discharge permit was submitted to EGLE for review
  - The permit may not be extended beyond 5 years after the issuance date
  - The distinction between local limits and surcharge limits was made clear
  - The frequency at which testing will occur was updated
  - Surcharges will now be calculated based on City of Buchanan WWTP lab data instead of SEBCLF lab data
  - The fact that surcharges are applied to discharges with a UVT below 65 was stated plainly
  - The frequency of landfill reports was increased from annually to biannually
  - How and to where the landfill's biannual reports are submitted was changed from email to hand signed hard copy delivered through mail
- A new DRAFT Enforcement Response Plan was submitted to EGLE for review

#### 4) NPDES Requirements

- Plant effluent was sampled and tested for copper concentration
- Plant influent and effluent was sampled and tested for PFAS concentrations
- Plant influent and effluent was sampled and tested for mercury concentration

#### 5) DMRQA

- Results for DMRQA-43 were received. We passed all tests for the fourth year in a row.

#### 6) PFAS

- PFAS sampling was conducted on our influent, effluent, sludge, and the collection system to set PFAS local limits

- In October septage was sampled for PFAS concentration at the request of EGLE for calculating PFAS local limits.

#### 7) Landfill Leachate

- In August – September the landfill was billed \$37,985.17

#### 8) Sludge

- In August – September we pressed 533,810 gallons of sludge
- In August – September we sent 173.23 tons of dewatered sludge to the landfill
- We are working on getting rid of the old 2022 sludge that was left in the drying beds
  - Beginning the week of 10/8 – 14/23 we started pressing only 1 dumpster's worth of sludge – a 50% reduction.
  - We are continuing to send 2 dumpsters a week to the landfill. The second dumpster is being filled with old 2022 sludge that was left in the drying beds. It may take a couple months to remove all of the old sludge
- Polymer dosage was played with extensively. Dose has been reduced from 8% to 5% -- A 37.5% reduction
- A different size/thickness of dumpster liner was acquired. The new bags are \$17.58 each vs. \$29.70 each for the old bags; shipping on 8 of the new bags was \$53.52 vs. \$87.25 for the old bags – a total cost reduction of 40%.

#### 9) SCADA System

- Windemuller installed an 120V surge protector in the panel that keeps blowing modules. This installation was done free of charge
- A new I/O board was installed in the RAS meter

#### 9) Maintenance Items

- Clarifier weirs and launders were cleaned
- Solids were removed from Schirmer, Mill Pond, and Industrial lift stations
- The transducer at Schirmer lift station was replace
- Oil was changed on both clarifiers
- Oil was changed on the snow blower
- A rotating assembly was installed in the grit lift pump
- Numerous preventative maintenance tasks