

2021 - WATER CONSUMPTION

DATE	Lake Mitchell Influent MG	B-Y Rural Water Influent MG	Effluent to Water Towers MG
8/1/2021	0-MG	2.492	2.433
8/2/2021	0-MG	3.139	3.154
8/3/2021	0-MG	3.242	3.150
8/4/2021	0-MG	3.110	3.103
8/5/2021	0-MG	2.912	2.853
8/6/2021	0-MG	3.585	3.546
8/7/2021	0-MG	2.929	2.884
8/8/2021	0-MG	3.388	3.295
8/9/2021	0-MG	3.337	3.355
8/10/2021	0-MG	3.51	3.556
8/11/2021	0-MG	3.503	3.717
8/12/2021	0-MG	3.016	3.097
8/13/2021	0-MG	3.596	3.904
8/14/2021	0-MG	3.533	3.752
8/15/2021	0-MG	3.084	3.259
8/16/2021	0-MG	3.744	3.968
8/17/2021	0-MG	3.433	3.548
8/18/2021	0-MG	3.473	3.409
8/19/2021	0-MG	3.381	3.315
8/20/2021	0-MG	3.285	3.249
8/21/2021	0-MG	3.361	3.310
8/22/2021	0-MG	3.237	3.195
8/23/2021	0-MG	3.197	3.134
8/24/2021	0-MG	2.995	2.943
8/25/2021	0-MG	3.160	3.121
8/26/2021	0-MG	3.036	2.997
8/27/2021	0-MG	3.091	3.048
8/28/2021	0-MG	2.816	2.766
8/29/2021	0-MG	3.043	3.003
8/30/2021	0-MG	2.935	2.830
8/31/2021	0-MG	2.585	2.620
TOTALS	0-MG	99.148	99.514

<u>Date</u>	<u>Source</u>	<u>Site</u>	<u>Chlorine PPM</u> 0.5PPM-4.00PPM	<u>Bacteria</u>
8/3/2021	Water Plant	#1	2.60	Absent
8/3/2021	Fire Dept	#2	2.13	Absent
8/3/2021	Queen of Peace	#3	2.29	Absent
8/3/2021	East Cenex Store	#4	2.28	Absent
8/3/2021	J Mart Sinclair	#5	2.43	Absent
8/3/2021	Wesley Acres	#9	2.31	Absent
8/3/2021	City Library	#12	2.31	Absent
8/3/2021	City Hall	#15	2.31	Present
8/12/2021	Dakota Medical Specialis	#6	2.48	Absent
8/12/2021	Erickson Oil	#7	2.29	Absent
8/12/2021	Arnies	#8	2.53	Absent
8/12/2021	Culvers	#10	2.47	Absent
8/12/2021	Moose Lodge	#11	2.57	Absent
8/12/2021	City Park Dept	#13	2.64	Absent
8/12/2021	Ampride	#14	2.28	Absent
Average			2.39	Absent

MONTHLY -- B-Y WATER- GALLON AND CHEMICAL USAGE REPORT

MONTH --- August YEAR - 2021

Influent ----- 99.148-- Million Gallon's

Effluent ----- 99.514 -- Million Gallon's

Chemical costs for B-Y Water:

Chlorine usage ----- 0lbs. @ \$1.45 per lb. = \$0.00

Ammonia usage ----- 0 lbs. @ \$2.17 per lb. = \$0.00

Poly -phosphate----- 1680 lbs. @ \$1.75 per lb. = \$2940.00

Total = \$2940.00

Cost per Unit (750 gallon) = \$0.022

Cost per 1,000 gallons of water = \$0.030

CITY OF MITCHELL

MONTHLY WATER TREATMENT CHEMICAL CONSUMPTION REPORT MONTH / YEAR—August, 2021— Jon Vermeulen – Utilities Superintendent

Coagulant Aid- (2187)	= <u>0-Gals.</u>	X	CONTRACT	=	\$0.00
Lime	= <u>0# or 0- TON'S</u>	X	\$192.39/TON	=	\$0.00
Sodium Chlorite	= <u>0-GAL.</u>	X	CONTRACT	=	\$0.00
Fluoride	= <u>0-GAL.</u>	X	\$1.99/GAL.	=	\$0.00
Polymer (2386)	= <u>0-GAL.</u>	X	CONTRACT	=	\$0.00
Activated Carbon	= <u>0# or 0- TON'S</u>	X	\$1,936.25/TON	=	\$0.00
Chlorine	= <u>0# or 0- TON'S</u>	X	\$1.45/LB.	=	\$0.00
Poly Phosphate	= <u>1680# or .74 TON</u>	X	\$1.75/LB.	=	\$2,940.00
Carbon Dioxide	= <u>0# or 0- TON'S</u>	X	\$178.00/TON	=	\$0.00
Ammonia	= <u>0 or 0- TON'S</u>	X	\$2.17 /LB.	=	\$0.00
Pristine Contract	= <u>0 -MG of WATER</u>	X	<u>.255/1000 GALS. RAW WATER</u>	=	\$0.00

TOTAL = \$2,940.00

Raw Water Treated (LAKE) 0 MG-----or 0 MGD-----or----- PEAK DAY 0 MG
 Finished Water (EFFLUENT) 99.148 MG----or 3.198 MGD-----or----- PEAK DAY 3.744 MG
 B-Y- Water (INFLUENT) 99.514 MG----- or 3.210 MGD-----or----- PEAK DAY 3.968 MG
 B-Y & RAW WATER TREATED – TOTAL= 99.514 MG --- or 3.210 MGD ----or ---- PEAK DAY 3.968 MG

Chemical cost = 2,940.00 = \$29.54 per MG or 0.022 cents per Unit (750 GALLONS).

CHEMICAL FEED RATES IN Mg/L

Coagulant Aid- (2187)	= <u>0</u> Mg/L --	0	Gallons / Raw Water
Lime	= <u>0</u> Mg/L	0	lbs. / 7 lbs. Per Gallon/ Raw Water
Sodium Chlorite	= <u>0</u> Mg/L --	0	Gallons / Raw Water
Fluoride	= <u>0</u> Mg/L --	0	Gallons / Raw Water
Polymer (2386)	= <u>0</u> Mg/L --	0	Gallons / Raw Water
Activated Carbon	= <u>0</u> Mg/L --	0	lbs. / 4 lbs. per Gallon / Raw Water
Chlorine	= <u>0</u> Mg/L --	0	lbs. / 11.75 lbs. per Gallon / Raw Water
Poly Phosphate	= <u>2.17</u> Mg/L--	1680	lbs. / 10.5 lbs. per Gallon / Raw Water
Carbon Dioxide	= <u>0</u> Mg/L --	0	lbs. / 8.50 lbs. per Gallon / Raw Water
Ammonia	= <u>0</u> Mg/L --	0	lbs. / 5.15 lbs. per Gallon / Raw Water
Polymer	= <u>0</u> Mg/L --	0	

CITY OF MITCHELL

Monthly - Chemical Inventory at the Water Treatment Plant

Date: 9/1/21

Coagulant – (AF-1102) 903 Gallons

Lime 159,104 lbs. or 79.552 Ton's

Fluoride 814 Gallon's

Sodium Chlorite – (PHI-3125) 80 Gallon's

Polymer-(PHI-2386) 5 Gallon's
(AF-84500) 225 Gallon's

Activated Carbon 6,650 lbs. or 3.325 Ton's

Chlorine 881 lbs. or 0.441 Ton

Poly-phosphate 4250 lbs. or 2.125 Ton's

Carbon Dioxide 0 Lbs. or 0 Ton's

Ammonia 572.5 lbs. or 0.2825 Ton's

City of Mitchell Water Rate Charged

9/1/2021

	Base Rate (1,000 Gallons)	Added Rate (1,000 Gallons)	Combined Rate (1,000 Gallons)
Use below 2.65 MGD =	\$1.23	\$0.00	\$1.23
Use between 2.65 MGD to 2.90 MGD =	\$1.23	\$1.00	\$2.23
Use between 2.90 MGD to 3.15 MGD =	\$1.23	\$1.50	\$2.73
All use over 3.15 MGD =	\$1.23	\$2.00	\$3.23

Month: 8 Year: 2021 Billing Month: 9

Day of Month	24 Hour Use(Kgal)	Use Above 2.65 MGD	Base Rate Use	Base Rate Cost	2.65 - 2.9 MGD Useage	2.65 - 2.9 MGD Added Cost	2.9 - 3.15 MGD Useage	2.9 - 3.15 MGD Added Cost	All Use Over 3.15 MGD	All Use Over 3.15 MGD Cost	Total Daily Cost
1	2,476,000	0	2,476,000	\$3,045.48	0	\$0.00	0	\$0.00	0	\$0.00	\$3,045.48
2	2,834,000	184,000	2,834,000	\$3,485.82	184,000	\$184.00	0	\$0.00	0	\$0.00	\$3,669.82
3	3,335,000	685,000	3,335,000	\$4,102.05	250,000	\$250.00	250,000	\$375.00	185,000	\$370.00	\$5,097.05
4	2,989,000	339,000	2,989,000	\$3,676.47	250,000	\$250.00	89,000	\$133.50	0	\$0.00	\$4,059.97
5	3,060,000	410,000	3,060,000	\$3,763.80	250,000	\$250.00	160,000	\$240.00	0	\$0.00	\$4,253.80
6	3,437,000	787,000	3,437,000	\$4,227.51	250,000	\$250.00	250,000	\$375.00	287,000	\$574.00	\$5,426.51
7	2,917,000	267,000	2,917,000	\$3,587.91	250,000	\$250.00	17,000	\$25.50	0	\$0.00	\$3,863.41
8	3,562,000	912,000	3,562,000	\$4,381.26	250,000	\$250.00	250,000	\$375.00	412,000	\$824.00	\$5,830.26
9	3,183,000	533,000	3,183,000	\$3,915.09	250,000	\$250.00	250,000	\$375.00	33,000	\$66.00	\$4,606.09
10	3,509,000	859,000	3,509,000	\$4,316.07	250,000	\$250.00	250,000	\$375.00	359,000	\$718.00	\$5,659.07
11	3,517,000	867,000	3,517,000	\$4,325.91	250,000	\$250.00	250,000	\$375.00	367,000	\$734.00	\$5,684.91
12	3,354,000	704,000	3,354,000	\$4,125.42	250,000	\$250.00	250,000	\$375.00	204,000	\$408.00	\$5,158.42
13	3,263,000	613,000	3,263,000	\$4,013.49	250,000	\$250.00	250,000	\$375.00	113,000	\$226.00	\$4,864.49
14	3,549,000	899,000	3,549,000	\$4,365.27	250,000	\$250.00	250,000	\$375.00	399,000	\$798.00	\$5,788.27
15	3,073,000	423,000	3,073,000	\$3,779.79	250,000	\$250.00	173,000	\$259.50	0	\$0.00	\$4,289.29
16	3,766,000	1,116,000	3,766,000	\$4,632.18	250,000	\$250.00	250,000	\$375.00	616,000	\$1,232.00	\$6,489.18
17	3,471,000	821,000	3,471,000	\$4,269.33	250,000	\$250.00	250,000	\$375.00	321,000	\$642.00	\$5,536.33
18	3,475,000	825,000	3,475,000	\$4,274.25	250,000	\$250.00	250,000	\$375.00	325,000	\$650.00	\$5,549.25
19	3,386,000	736,000	3,386,000	\$4,164.78	250,000	\$250.00	250,000	\$375.00	236,000	\$472.00	\$5,261.78
20	3,305,000	655,000	3,305,000	\$4,065.15	250,000	\$250.00	250,000	\$375.00	155,000	\$310.00	\$5,000.15
21	3,349,000	699,000	3,349,000	\$4,119.27	250,000	\$250.00	250,000	\$375.00	199,000	\$398.00	\$5,142.27
22	3,261,000	611,000	3,261,000	\$4,011.03	250,000	\$250.00	250,000	\$375.00	111,000	\$222.00	\$4,858.03
23	3,195,000	545,000	3,195,000	\$3,929.85	250,000	\$250.00	250,000	\$375.00	45,000	\$90.00	\$4,644.85
24	2,967,000	317,000	2,967,000	\$3,649.41	250,000	\$250.00	67,000	\$100.50	0	\$0.00	\$3,999.91
25	3,151,000	501,000	3,151,000	\$3,875.73	250,000	\$250.00	250,000	\$375.00	1,000	\$2.00	\$4,502.73
26	3,049,000	399,000	3,049,000	\$3,750.27	250,000	\$250.00	149,000	\$223.50	0	\$0.00	\$4,223.77
27	3,087,000	437,000	3,087,000	\$3,797.01	250,000	\$250.00	187,000	\$280.50	0	\$0.00	\$4,327.51
28	2,909,000	259,000	2,909,000	\$3,578.07	250,000	\$250.00	9,000	\$13.50	0	\$0.00	\$3,841.57
29	2,929,000	279,000	2,929,000	\$3,602.67	250,000	\$250.00	29,000	\$43.50	0	\$0.00	\$3,896.17
30	3,287,000	637,000	3,287,000	\$4,043.01	250,000	\$250.00	250,000	\$375.00	137,000	\$274.00	\$4,942.01
31	2,479,000	0	2,479,000	\$3,049.17	0	\$0.00	0	\$0.00	0	\$0.00	\$3,049.17
TOTALS	99124000	17,319,000	99,124,000	\$121,922.52	7,184,000	\$7,184.00	5,630,000	\$8,445.00	4,505,000	\$9,010.00	\$146,561.52

	Total Cost	Gallons Used	Base Cost	Cost Over 2.65MGD
Previous Month Read =	12,382,503,000			
Current Month Read =	12,481,627,000			
Current Month Use =	99,124,000			
Days billed in August =	\$146,561.52	99,124,000	\$121,922.52	\$24,639.00
Days carried from previous month =	\$0.00	0	\$0.00	\$0.00
Total bill for August =	\$146,561.52	99,124,000	\$121,922.52	\$24,639.00

Days that will be billed in September = \$0.00

Note: September billing meter was read on September 1st therefore no August days will be included in October billing.