

2021 - WATER CONSUMPTION

DATE	Lake Mitchell Influent MG	B-Y Rural Water Influent MG	Effluent to Water Towers MG
5/1/2021	0-MG	1.932	2.153
5/2/2021	0-MG	1.87	1.823
5/3/2021	0-MG	1.906	2.118
5/4/2021	0-MG	1.739	1.563
5/5/2021	0-MG	2.056	2.085
5/6/2021	0-MG	1.950	1.753
5/7/2021	0-MG	1.947	1.992
5/8/2021	0-MG	1.709	1.510
5/9/2021	0-MG	1.321	1.114
5/10/2021	0-MG	2.148	2.29
5/11/2021	0-MG	1.939	1.799
5/12/2021	0-MG	1.900	1.780
5/13/2021	0-MG	2.156	2.220
5/14/2021	0-MG	2.705	2.652
5/15/2021	0-MG	2.110	1.968
5/16/2021	0-MG	1.951	1.826
5/17/2021	0-MG	2.554	2.655
5/18/2021	0-MG	1.603	1.667
5/19/2021	0-MG	2.647	2.564
5/20/2021	0-MG	2.147	1.991
5/21/2021	0-MG	1.975	1.812
5/22/2021	0-MG	2.451	2.529
5/23/2021	0-MG	1.914	1.688
5/24/2021	0-MG	2.467	2.529
5/25/2021	0-MG	1.930	1.700
5/26/2021	0-MG	2.341	2.445
5/27/2021	0-MG	1.741	1.505
5/28/2021	0-MG	1.998	2.112
5/29/2021	0-MG	1.528	1.303
5/30/2021	0-MG	2.120	2.222
5/31/2021	0-MG	2.053	1.989
TOTALS	0-MG	62.808	61.357

<u>Date</u>	<u>Source</u>	<u>Site</u>	<u>Chlorine PPM</u> 0.5PPM-4.00PPM	<u>Bacteria</u>
5/5/2021	Water Plant	#1	2.40	Absent
5/5/2021	Fire Dept	#2	2.38	Absent
5/5/2021	Dakota Medical Special	#6	2.43	Absent
5/5/2021	Arnies	#8	2.54	Absent
5/5/2021	Wesley Acres	#9	2.37	Absent
5/5/2021	Culvers	#10	2.44	Absent
5/5/2021	City Hall	#15	2.39	Absent
5/5/2021	Mitchell Tech Inst	#16	2.48	Absent
5/10/2021	Queen of Peace	#3	2.50	Absent
5/10/2021	East Cenex Store	#4	2.54	Absent
5/10/2021	J-Mart Sinclair	#5	2.40	Absent
5/10/2021	Erickson Oil	#7	2.40	Absent
5/10/2021	Holy Family Church	#17	2.40	Absent
5/10/2021	Mitchell Middle School	#18	2.48	Absent
5/10/2021	Brady Memorial Home	#19	2.42	Absent
5/10/2021	Holy Family Church	#17	2.41	Absent
Average			2.44	Absent

CITY OF MITCHELL

Monthly - Chemical Inventory at the Water Treatment Plant

Date: 6/1/21

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 4620 lbs. or 2.31 Ton's

Carbon Dioxide 0 Lbs. or 0 Ton's

Ammonia 572.5 lbs. or 0.2825 Ton's

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

MONTH --- May YEAR - 2021

Influent ----- 62.808-- Million Gallon's

Effluent ----- 61.357-- 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----- 825 lbs. @ \$1.75 per lb. = \$1443.75

Total = \$1433.75

Cost per Unit (750 gallon) = \$0.017

Cost per 1,000 gallons of water = \$0.023

CITY OF MITCHELL

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

Coagulant Aid- (2187)	= <u>0</u> -Gals.	X	CONTRACT	=	<u>\$0.00</u>
Lime	= <u>0#</u> or <u>0</u> - TON'S	X	\$192.39/TON	=	<u>\$0.00</u>
Sodium Chlorite	= <u>0</u> -GAL.	X	CONTRACT	=	<u>\$0.00</u>
Fluoride	= <u>0</u> -GAL.	X	\$1.99/GAL.	=	<u>\$0.00</u>
Polymer (2386)	= <u>0</u> -GAL.	X	CONTRACT	=	<u>\$0.00</u>
Activated Carbon	= <u>0#</u> or <u>0</u> - TON'S	X	\$1,936.25/TON	=	<u>\$0.00</u>
Chlorine	= <u>0#</u> or <u>0</u> - TON'S	X	\$1.45/LB.	=	<u>\$0.00</u>
Poly Phosphate	= <u>825#</u> or <u>.44</u> TON	X	\$1.75/LB.	=	<u>\$1,433.75</u>
Carbon Dioxide	= <u>0#</u> or <u>0</u> - TON'S	X	\$178.00/TON	=	<u>\$0.00</u>
Ammonia	= <u>0</u> or <u>0</u> - TON'S	X	\$2.17 /LB.	=	<u>\$0.00</u>
Pristine Contract	= <u>0</u> -MG of WATER	X	.255/1000 GALS. RAW WATER	=	<u>\$0.00</u>

TOTAL = \$1,433.75

Raw Water Treated (LAKE) 0 MG-----or 0 MGD-----or----- PEAK DAY 0 MG
 Finished Water (EFFLUENT) 61.357 MG----or 1.979 MGD-----or----- PEAK DAY 2.655 MG
 B-Y- Water (INFLUENT) 62.808 MG----- or 2.026 MGD-----or----- PEAK DAY 2.705 MG
 B-Y & RAW WATER TREATED – TOTAL= 62.808 MG --- or 2.026 MGD ----or ---- PEAK DAY 2.705 MG

Chemical cost = 1,433.75 = \$23.37 per MG or 0.017 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>1.35</u> Mg/L--	825	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 Water Rate Charged

6/1/2021

	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: 5 Year: 2021 Billing Month: 6

Day of Month	24 Hour Use(Kgal)	Use Above 2.65 MGD	Base Rate Use	Base Rate Cost	2.65 - 2.9 MGD Usage	2.65 - 2.9 MGD Added Cost	2.9 - 3.15 MGD Usage	2.9 - 3.15 MGD Added Cost	All Use Over 3.15 MGD	All Use Over 3.15 MGD Cost	Total Daily Cost
1	1,565,000	0	1,565,000	\$1,924.95	0	\$0.00	0	\$0.00	0	\$0.00	\$1,924.95
2	2,173,000	0	2,173,000	\$2,672.79	0	\$0.00	0	\$0.00	0	\$0.00	\$2,672.79
3	1,511,000	0	1,511,000	\$1,858.53	0	\$0.00	0	\$0.00	0	\$0.00	\$1,858.53
4	2,065,000	0	2,065,000	\$2,539.95	0	\$0.00	0	\$0.00	0	\$0.00	\$2,539.95
5	1,685,000	0	1,685,000	\$2,072.55	0	\$0.00	0	\$0.00	0	\$0.00	\$2,072.55
6	2,252,000	0	2,252,000	\$2,769.96	0	\$0.00	0	\$0.00	0	\$0.00	\$2,769.96
7	1,644,000	0	1,644,000	\$2,022.12	0	\$0.00	0	\$0.00	0	\$0.00	\$2,022.12
8	1,951,000	0	1,951,000	\$2,399.73	0	\$0.00	0	\$0.00	0	\$0.00	\$2,399.73
9	1,278,000	0	1,278,000	\$1,571.94	0	\$0.00	0	\$0.00	0	\$0.00	\$1,571.94
10	1,817,000	0	1,817,000	\$2,234.91	0	\$0.00	0	\$0.00	0	\$0.00	\$2,234.91
11	2,125,000	0	2,125,000	\$2,613.75	0	\$0.00	0	\$0.00	0	\$0.00	\$2,613.75
12	1,957,000	0	1,957,000	\$2,407.11	0	\$0.00	0	\$0.00	0	\$0.00	\$2,407.11
13	1,796,000	0	1,796,000	\$2,209.08	0	\$0.00	0	\$0.00	0	\$0.00	\$2,209.08
14	2,698,000	48,000	2,698,000	\$3,318.54	48,000	\$48.00	0	\$0.00	0	\$0.00	\$3,366.54
15	2,410,000	0	2,410,000	\$2,964.30	0	\$0.00	0	\$0.00	0	\$0.00	\$2,964.30
16	1,923,000	0	1,923,000	\$2,365.29	0	\$0.00	0	\$0.00	0	\$0.00	\$2,365.29
17	2,355,000	0	2,355,000	\$2,896.65	0	\$0.00	0	\$0.00	0	\$0.00	\$2,896.65
18	1,669,000	0	1,669,000	\$2,052.87	0	\$0.00	0	\$0.00	0	\$0.00	\$2,052.87
19	2,408,000	0	2,408,000	\$2,961.84	0	\$0.00	0	\$0.00	0	\$0.00	\$2,961.84
20	2,424,000	0	2,424,000	\$2,981.52	0	\$0.00	0	\$0.00	0	\$0.00	\$2,981.52
21	1,946,000	0	1,946,000	\$2,393.58	0	\$0.00	0	\$0.00	0	\$0.00	\$2,393.58
22	2,134,000	0	2,134,000	\$2,624.82	0	\$0.00	0	\$0.00	0	\$0.00	\$2,624.82
23	2,183,000	0	2,183,000	\$2,685.09	0	\$0.00	0	\$0.00	0	\$0.00	\$2,685.09
24	2,144,000	0	2,144,000	\$2,637.12	0	\$0.00	0	\$0.00	0	\$0.00	\$2,637.12
25	2,208,000	0	2,208,000	\$2,715.84	0	\$0.00	0	\$0.00	0	\$0.00	\$2,715.84
26	1,990,000	0	1,990,000	\$2,447.70	0	\$0.00	0	\$0.00	0	\$0.00	\$2,447.70
27	2,037,000	0	2,037,000	\$2,505.51	0	\$0.00	0	\$0.00	0	\$0.00	\$2,505.51
28	1,634,000	0	1,634,000	\$2,009.82	0	\$0.00	0	\$0.00	0	\$0.00	\$2,009.82
29	1,826,000	0	1,826,000	\$2,245.98	0	\$0.00	0	\$0.00	0	\$0.00	\$2,245.98
30	1,771,000	0	1,771,000	\$2,178.33	0	\$0.00	0	\$0.00	0	\$0.00	\$2,178.33
31	2,014,000	0	2,014,000	\$2,477.22	0	\$0.00	0	\$0.00	0	\$0.00	\$2,477.22
TOTALS	61,593,000	48,000	61,593,000	\$75,759.39	48,000	\$48.00	0	\$0.00	0	\$0.00	\$75,807.39

	Total Cost	Gallons Used	Base Cost	Cost Over 2.65MGD
Previous Month Read =	12,127,217,000			
Current Month Read =	12,188,810,000			
Current Month Use =	61,593,000			
	Days billed in May = \$75,807.39	61,593,000	\$75,759.39	\$48.00
	Days carried from previous month = \$0.00	0	\$0.00	\$0.00
	Total bill for May = \$75,807.39	61,593,000	\$75,759.39	\$48.00

Days that will be billed in June = \$0.00

Note: June billing meter was read on June 1st therefore no May days will be included in July billing.

JV