

CITY OF ST. LOUIS  
DEPARTMENT OF PUBLIC UTILITIES  
WATER DIVISION  
SUPPLY & PURIFYING SECTION  
MINERAL ANALYSIS OF TAP WATER FROM THE CHAIN OF ROCKS PLANT\*  
(Results expressed in parts per million\*\*)  
FOR CALENDAR YEAR

2022

DESCRIPTION	METHOD DETECTION LEVEL	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YEAR AVG
Iron, Fe (µg/L)	10.00	<10	<10	<10	<10	<10	<10	<10	37					3.08
Aluminum, Al (µg/L)	0.50	1.15	1.33	<0.5	1.21	3.05	3.42	2.55	31.5					3.68
Calcium, Ca	0.10	19.4	21.7	22.7	25.1	21.1	25.0	20.8	60.0					18.0
Magnesium, Mg	0.10	22.3	57.6	18.3	23.0	17.0	17.1	24.8	29.1					17.4
Sodium, Na	0.10	44.1	47.7	43.8	45.4	31.7	29.8	70.1	31.3					28.7
Potassium, K	0.10	5.10	5.43	5.40	6.64	4.95	6.10	7.72	8.05					4.12
Carbonate, CO3		20.8	19.4	16.1	16.5	14.9	14.0	20.7	15.8	17.0	17.0	17.7	17.4	17.3
Bicarbonate, HCO3		49.1	39.6	43.9	32.8	30.7	26.3	41.0	37.1	30.1	36.1	36.1	46.9	37.5
Sulfate, SO4	0.05	142.7	129.3	105.8	87.8	88.0	84.5	127.6	170.2	215.0	229.4	206.6	168.4	146.3
Chloride, Cl	0.05	35.7	38.7	35.2	22.9	20.8	21.3	28.5	31.1	30.5	29.4	28.9	30.6	29.5
Nitrate, N	0.05	1.50	1.30	1.10	0.90	1.00	1.80	1.30	0.40	0.20	0.10	0.50	0.90	0.92
Turbidity (NTU)		0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
pH		9.45	9.50	9.37	9.49	9.48	9.48	9.52	9.54	9.60	9.56	9.56	9.45	9.50
Residual Chlorine	0.02	2.64	2.70	2.67	2.72	2.78	2.87	2.91	2.86	2.85	2.78	2.80	2.75	2.78
Total Alkalinity, CaCO3		75	65	63	54	50	45	68	57	53	58	59	67	60
Non Carb. Hardness, CaCO3		80	79	69	58	54	59	56	77	96	105	99	95	77
Total Hardness, CaCO3		155	144	132	112	104	104	124	134	149	163	158	162	137
Fluoride, F	0.01	0.59	0.59	0.59	0.61	0.58	0.60	0.63	0.62	0.65	0.62	0.61	0.58	0.61
Phosphate, PO4	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Solids		340	326	281	231	217	216	297	346	413	436	408	375	324
Suspended Solids		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Solids		340	326	281	231	217	216	297	346	413	436	408	375	324
Bromide	0.05	0.08	0.10	0.07	0.06	0.03	0.06	0.07	0.11	0.07	0.10	0.08	0.08	0.08
Temperature (°C)		3.90	4.60	10.20	14.10	20.60	26.90	30.40	29.70	26.70	18.50	11.70	5.40	16.89
Ammonia, N	0.01	0.69	0.68	0.68	0.66	0.70	0.71	0.75	0.70	0.65	0.72	0.70	0.70	0.70
Conductivity (µS/cm)		533	510	476	355	345	348	481	553	646	666	608	541	505
Boron µg/L	50.00	78.3	58.5	52.05	29.15	31.5	33.45	59.7	98.35					36.75
TOC	.05	2.77	2.72	2.89	3.06	3.14	3.21	3.11	3.06	2.91	3.04	2.91	2.80	2.97

\* MISSISSIPPI RIVER

\*\* EXCEPT TURBIDITY AND pH