

**Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant
2019**

Water Quality Parameter	Yearly Average	Standard Deviation	Minimum Level	Maximum Level	Jan-Feb Average	Mar-Apr Average	May-Jun Average	Jul-Aug Average	Sep-Oct Average	Nov-Dec Average	Sample Frequency
General Parameters											
Alkalinity (Total as CaCO ₃), mg/L	124	2.7	105	181	124	129	121	123	123	126	Weekly
Ammonia (as Nitrogen), mg/L	1.6	0.2	1.3	1.9	1.9	1.6	1.6	1.7	1.4	1.6	Monthly
Bicarbonate (HCO ₃), mg/L	124	2.7	105	181	124	129	121	123	123	126	Weekly
Biological Oxygen Demand, mg/L	1.2	0.1	0.8	1.9	1.1	1.3	1.3	1.2	1.0	1.1	Weekly
Conductivity, umhos/cm	857	33	779	1,260	847	814	884	876	828	898	Weekly
Hardness (as CaCO ₃), mg/L	163	8.9	142	258	162	174	163	152	157	174	Weekly
Nitrate (as Nitrogen), mg/L	8.7	1.6	6.0	15.3	7.5	7.4	8.2	9.6	8.2	11.5	Monthly
Nitrite (as Nitrogen), mg/L	<0.04	NA	<0.02	0.1	0.07	<0.02	<0.07	0.02	<0.02	0.03	Monthly
Permeability SAR [calculated]	3.5	0.2	3.0	3.9	3.7	3.1	3.4	3.8	3.6	3.5	Monthly
pH (units)	7.4	0.1	7.2	7.9	7.6	7.5	7.4	7.4	7.3	7.4	Daily
Temperature, degrees Fahrenheit	71.4	4.1	62.8	79	66.1	67.9	72.9	76.4	75.2	69.8	Daily
Total Coliform Count, CFU/100ml	<1	NA	<1	79	<1	<1	<3	<1	<1	<1	Daily
Total Dissolved Solids, mg/L	493	24	426	744	471	469	508	522	478	515	Weekly
Total Residual Chlorine, mg/L	5.4	0.3	2.4	7.8	5.0	5.7	5.1	5.4	5.3	5.6	Daily
Total Suspended Solids, mg/L	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Weekly
Turbidity, NTU	0.4	0.04	0.3	0.8	0.4	0.4	0.4	0.3	0.4	0.4	Daily
Chemical Parameters											
Arsenic (As), ug/L	0.5	0	0.4	0.7	0.5	0.5	0.5	0.5	0.5	0.5	Monthly
Boron (B), ug/L	355	20.1	316	403	334	342	357	379	339	379	Monthly
Cadmium (Cd), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Monthly
Calcium (Ca), ug/L	32,100	4,880	27,100	51,300	27,900	32,100	28,500	33,500	29,700	41,100	Monthly
Chloride (Cl), ug/L	144,000	17,900	114,000	215,000	141,000	120,000	142,000	161,000	134,000	169,000	Monthly
Total Chromium (Cr), ug/L	<0.3	NA	0.2	0.5	0.2	0.2	0.2	<0.4	<0.5	<0.5	Monthly
Copper (Cu), ug/L	1.3	0.1	1.0	1.6	1.4	1.5	1.2	1.2	1.1	1.3	Monthly
Iron (Fe), ug/L	<106	NA	<100	171	<100	<100	<100	<100	<100	<136	Monthly
Lead (Pb), ug/L	<0.1	NA	<0.1	0.3	0.1	<0.1	<0.1	<0.1	<0.2	0.2	Monthly
Magnesium (Mg), ug/L	22,400	2,580	19,200	33,200	20,300	24,100	21,300	23,000	19,500	26,400	Monthly
Mercury (Hg), ug/L	<0.0006	NA	<0.0005	0.0010	0.0006	0.0006	<0.0005	0.0006	0.0006	0.0009	Monthly
Nickel (Ni), ug/L	2.5	0.4	2.0	4.0	2.2	2.7	2.3	2.7	2.2	3.1	Monthly
Phosphate (PO ₄), ug/L	732	146	358	1,000	807	775	446	822	827	714	Monthly
Potassium (K), ug/L	10,900	1,790	8,200	16,700	10,700	8,460	9,680	12,000	11,100	13,600	Monthly
Silicon (Si), ug/L	6,130	856	5,310	9,570	5,470	5,970	5,330	6,550	5,810	7,640	Monthly
Silver (Ag), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Monthly
Sodium (Na), ug/L	106,000	9,160	89,300	136,000	104,000	94,300	98,900	118,000	104,000	115,000	Monthly
Sulfate (SO ₄), ug/L	60,000	6,730	51,100	92,600	53,700	60,400	57,200	61,000	55,100	72,400	Monthly
Zinc (Zn), ug/L	10.3	1.7	5.8	16.1	8.1	9.4	9.9	11.7	10	12.8	Monthly
Other											
Dissolved Oxygen, mg/L	7.8	0.3	6.3	8.8	8.2	8.1	7.8	7.5	7.4	7.9	Daily
Ortho Phosphate, mg/L	0.7	0.2	0.2	2.8	0.4	0.8	0.6	0.8	1.1	0.6	Weekly

NA = Not Available

MPN = Most Probable Number

SAR = $[Na^+] / \sqrt{([Ca^{++}] + [Mg^{++}]) / 2}$

NTU = Nephelometric Turbidity Units (measure of the suspended material in water)

mg/L = Milligrams per Liter (parts per million)

ug/L = Micrograms per Liter (parts per billion)