

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	125	3.6	106	160	124	129	121				Weekly
Ammonia (as Nitrogen), mg/L	1.7	0.2	1.4	1.9	1.9	1.6	1.6				Monthly
Bicarbonate (HCO ₃), mg/L	125	3.6	106	160	124	129	121				Weekly
Biological Oxygen Demand, mg/L	1.2	0.1	0.9	1.9	1.1	1.3	1.3				Weekly
Conductivity, umhos/cm	847	35	786	1,210	847	814	884				Weekly
Hardness (as CaCO ₃), mg/L	167	6.7	148	233	162	174	163				Weekly
Nitrate (as Nitrogen), mg/L	7.7	0.4	6.0	9.0	7.5	7.4	8.2				Monthly
Nitrite (as Nitrogen), mg/L	<0.05	NA	<0.02	0.1	0.07	<0.02	<0.07				Monthly
Permeability SAR [calculated]	3.4	0.3	3.0	3.9	3.7	3.1	3.4				Monthly
pH (units)	7.5	0.1	7.3	7.9	7.6	7.5	7.4				Daily
Temperature, degrees Fahrenheit	69	3.5	62.8	76.5	66.1	67.9	72.9				Daily
Total Coliform Count, CFU/100ml	<2	NA	<1	79	<1	<1	<3				Daily
Total Dissolved Solids, mg/L	482	22	444	744	471	469	508				Weekly
Total Residual Chlorine, mg/L	5.3	0.4	2.4	7.8	5.0	5.7	5.1				Daily
Total Suspended Solids, mg/L	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0				Weekly
Turbidity, NTU	0.4	0	0.3	0.5	0.4	0.4	0.4				Daily
Chemical Parameters											
Arsenic (As), ug/L	0.5	0	0.4	0.6	0.5	0.5	0.5				Monthly
Boron (B), ug/L	344	11.7	316	357	334	342	357				Monthly
Cadmium (Cd), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1				Monthly
Calcium (Ca), ug/L	29,500	2,270	27,100	33,300	27,900	32,100	28,500				Monthly
Chloride (Cl), ug/L	134,000	12,400	114,000	157,000	141,000	120,000	142,000				Monthly
Total Chromium (Cr), ug/L	0.2	0	0.2	0.3	0.2	0.2	0.2				Monthly
Copper (Cu), ug/L	1.4	0.2	1.2	1.6	1.4	1.5	1.2				Monthly
Iron (Fe), ug/L	<100	NA	<100	<100	<100	<100	<100				Monthly
Lead (Pb), ug/L	<0.1	NA	<0.1	0.1	0.1	<0.1	<0.1				Monthly
Magnesium (Mg), ug/L	21,900	1,970	19,800	26,500	20,300	24,100	21,300				Monthly
Mercury (Hg), ug/L	<0.0006	NA	<0.0005	0.0007	0.0006	0.0006	<0.0005				Monthly
Nickel (Ni), ug/L	2.4	0.3	2.0	3.0	2.2	2.7	2.3				Monthly
Phosphate (PO ₄), ug/L	676	200	358	1,000	807	775	446				Monthly
Potassium (K), ug/L	9,610	1,120	8,200	11,000	10,700	8,460	9,680				Monthly
Silicon (Si), ug/L	5,590	337	5,310	5,970	5,470	5,970	5,330				Monthly
Silver (Ag), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1				Monthly
Sodium (Na), ug/L	99,000	4,850	89,300	110,000	104,000	94,300	98,900				Monthly
Sulfate (SO ₄), ug/L	57,100	3,350	51,100	64,200	53,700	60,400	57,200				Monthly
Zinc (Zn), ug/L	9.1	0.9	5.8	10.4	8.1	9.4	9.9				Monthly
Other											
Dissolved Oxygen, mg/L	8.0	0.2	7.2	8.8	8.2	8.1	7.8				Daily
Ortho Phosphate, mg/L	0.6	0.2	0.2	2.4	0.4	0.8	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)