

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	127	2.9	106	159	124	129					Weekly
Ammonia (as Nitrogen), mg/L	1.7	0.2	1.4	1.9	1.9	1.6					Monthly
Bicarbonate (HCO ₃), mg/L	127	2.9	106	159	124	129					Weekly
Biological Oxygen Demand, mg/L	1.2	0.1	0.9	1.8	1.1	1.3					Weekly
Conductivity, umhos/cm	831	23	786	881	847	814					Weekly
Hardness (as CaCO ₃), mg/L	168	8.5	149	198	162	174					Weekly
Nitrate (as Nitrogen), mg/L	7.5	0.1	6.0	9.0	7.5	7.4					Monthly
Nitrite (as Nitrogen), mg/L	<0.04	NA	<0.02	0.07	0.07	<0.02					Monthly
Permeability SAR [calculated]	3.4	0.4	3.0	3.9	3.7	3.1					Monthly
pH (units)	7.6	0.1	7.3	7.9	7.6	7.5					Daily
Temperature, degrees Fahrenheit	67	1.3	62.8	72.1	66.1	67.9					Daily
Total Coliform Count, CFU/100ml	<1	NA	<1	3	<1	<1					Daily
Total Dissolved Solids, mg/L	470	1	444	500	471	469					Weekly
Total Residual Chlorine, mg/L	5.4	0.5	2.4	6.8	5.0	5.7					Daily
Total Suspended Solids, mg/L	<1.0	NA	<1.0	<1.0	<1.0	<1.0					Weekly
Turbidity, NTU	0.4	0	0.3	0.5	0.4	0.4					Daily
Chemical Parameters											
Arsenic (As), ug/L	0.5	0	0.5	0.6	0.5	0.5					Monthly
Boron (B), ug/L	338	5.7	316	351	334	342					Monthly
Cadmium (Cd), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1					Monthly
Calcium (Ca), ug/L	30,000	2,970	27,100	33,300	27,900	32,100					Monthly
Chloride (Cl), ug/L	131,000	14,800	114,000	157,000	141,000	120,000					Monthly
Total Chromium (Cr), ug/L	0.2	0	0.2	0.3	0.2	0.2					Monthly
Copper (Cu), ug/L	1.5	0.1	1.2	1.6	1.4	1.5					Monthly
Iron (Fe), ug/L	<100	NA	<100	<100	<100	<100					Monthly
Lead (Pb), ug/L	<0.1	NA	<0.1	0.1	0.1	<0.1					Monthly
Magnesium (Mg), ug/L	22,200	2,690	19,800	26,500	20,300	24,100					Monthly
Mercury (Hg), ug/L	0.0006	0.0000	0.0006	0.0007	0.0006	0.0006					Monthly
Nickel (Ni), ug/L	2.4	0.4	2.0	3.0	2.2	2.7					Monthly
Phosphate (PO ₄), ug/L	791	22.6	587	1,000	807	775					Monthly
Potassium (K), ug/L	9,580	1,580	8,200	11,000	10,700	8,460					Monthly
Silicon (Si), ug/L	5,720	354	5,410	5,970	5,470	5,970					Monthly
Silver (Ag), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1					Monthly
Sodium (Na), ug/L	99,100	6,860	89,300	110,000	104,000	94,300					Monthly
Sulfate (SO ₄), ug/L	57,100	4,740	51,100	64,200	53,700	60,400					Monthly
Zinc (Zn), ug/L	8.7	0.9	5.8	10.4	8.1	9.4					Monthly
Other											
Dissolved Oxygen, mg/L	8.1	0.1	7.8	8.8	8.2	8.1					Daily
Ortho Phosphate, mg/L	0.6	0.3	0.2	1.5	0.4	0.8					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)