

Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant
2014

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	149	14.8	115	204	173	162	147	143	141	130	Weekly
Ammonia (as Nitrogen), mg/L	1.3	0.4	1.0	2.5	2.2	1.2	1.1	1.1	1.2	1.3	Monthly
Bicarbonate (HCO ₃), mg/L	149	14.8	115	204	173	162	147	143	141	130	Weekly
Biological Oxygen Demand, mg/L	2.0	1.0	0	7.0	3.0	3.0	1.0	1.0	1.0	1.0	Weekly
Conductivity, umhos/cm	1,030	174	827	1,390	1,340	1,110	932	917	1,000	870	Weekly
Hardness (as CaCO ₃), mg/L	203	36.3	150	293	264	231	187	185	180	172	Weekly
Nitrate (as Nitrogen), mg/L	10.7	2.0	8.8	15.2	14.5	11.1	9.0	9.6	9.8	10.4	Monthly
Nitrite (as Nitrogen), mg/L	<0.17	NA	<0.02	1.1	0.73	<0.07	<0.07	0.07	0.08	<0.02	Monthly
Permeability SAR [calculated]	3.8	0.3	3.5	4.4	4.3	3.9	3.6	3.5	3.8	3.6	Monthly
pH (units)	7.7	0.1	7.4	8.2	7.6	7.7	7.7	7.8	7.7	7.8	Daily
Temperature, degrees Fahrenheit	72.3	4.1	61.5	79.5	66.7	69.4	74.0	77.0	76.2	70.0	Daily
Total Coliform Count, CFU/100ml	<1.0	NA	<1.0	23.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Daily
Total Dissolved Solids, mg/L	584	110	467	856	787	629	516	513	562	500	Weekly
Total Residual Chlorine, mg/L	5.3	0.3	2.0	8.5	5.5	5.7	5.4	5.3	4.8	5.3	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	0.5	0.2	0.3	1.2	0.8	0.7	0.4	0.4	0.4	0.5	Daily
Chemical Parameters											
Arsenic (As), ug/L	0.7	0.1	0.5	1.1	0.9	0.8	0.7	0.6	0.7	0.7	Monthly
Boron (B), ug/L	408	20.4	400	500	450	400	400	400	400	400	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	40,200	9,960	32,800	62,700	58,700	44,700	35,400	33,900	35,100	33,500	Monthly
Chloride (Cl), ug/L	162,000	34,100	133,000	221,000	218,000	191,000	142,000	136,000	147,000	139,000	Monthly
Total Chromium (Cr), ug/L	0.4	0.1	0.3	0.6	0.6	0.4	0.3	0.3	0.4	0.4	Monthly
Copper (Cu), ug/L	1.6	0.7	0.9	3.3	2.9	1.9	1.2	1.0	1.1	1.5	Monthly
Iron (Fe), ug/L	<107	NA	<100	160	140	<100	<100	<100	<100	<100	Monthly
Lead (Pb), ug/L	<0.1	NA	<0.1	0.3	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	Monthly
Magnesium (Mg), ug/L	24,400	5,790	19,900	36,700	34,500	28,300	22,100	20,700	20,600	20,300	Monthly
Mercury (Hg), ug/L	0.0007	0.0003	0.0005	0.0012	0.0012	0.0010	0.0008	0.0005	0.0005	0.0006	Monthly
Nickel (Ni), ug/L	3.6	0.7	2.5	5.5	4.4	4.5	2.7	3.5	3.3	3.2	Monthly
Phosphate (PO ₄), ug/L	1,170	620	480	2,990	1,840	505	1,130	760	755	2,000	Monthly
Potassium (K), ug/L	12,500	2,850	10,500	19,600	18,000	13,200	10,800	10,600	11,500	11,000	Monthly
Silicon (Si), ug/L	8,120	1,680	6,600	11,300	11,200	8,900	7,550	7,050	7,200	6,800	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	123,000	25,200	104,000	178,000	170,000	135,000	110,000	106,000	114,000	106,000	Monthly
Sulfate (SO ₄), ug/L	72,900	17,400	59,100	107,000	100,000	89,700	64,200	60,500	61,600	61,400	Monthly
Zinc (Zn), ug/L	14.4	3.0	10.5	20.1	19.7	15.1	14.7	11.3	12.1	13.6	Monthly
Other											
Dissolved Oxygen, mg/L	7.5	0.2	6.9	8.9	7.3	7.6	7.7	7.4	7.4	7.7	Daily
Ortho Phosphate, mg/L	0.9	0.4	0.2	4.3	1.7	0.8	0.9	0.5	0.7	1.1	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)