

**Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant  
2009**

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
<b>General Parameters</b>											
Alkalinity (Total as CaCO <sub>3</sub> ), mg/L	178	2.8	148	198	176	183	175	180	177	179	Weekly
Ammonia (as Nitrogen), mg/L	0.5	0.1	0.1	3.2	0.4	0.6	0.5	0.4	0.4	0.4	Daily
Bicarbonate (HCO <sub>3</sub> ), mg/L	178	2.8	148	198	176	183	175	180	177	179	Weekly
Biological Oxygen Demand, mg/L	<4.0	NA	<2.0	9.0	5.0	6.0	4.0	<4.0	4.0	4.0	3/Weekly
Conductivity, umhos/cm	1,230	32.0	1,060	1,310	1,220	1,180	1,250	1,250	1,270	1,220	Weekly
Hardness (as CaCO <sub>3</sub> ), mg/L	255	8.8	233	280	247	270	259	254	246	255	Weekly
Nitrate (as Nitrogen), mg/L	10.3	1.2	7.3	14.2	10.5	11.6	11.8	9.8	8.8	9.2	Monthly
Nitrite (as Nitrogen), mg/L	<0.15	NA	0.02	0.89	<0.26	<0.23	0.16	0.08	0.09	0.08	Weekly
Permeability SAR [calculated]	3.9	NA	3.6	4.1	4.3	3.5	3.7	4.0	4.1	4.2	Monthly
pH (units)	7.2	0.04	6.8	7.5	7.1	7.2	7.2	7.2	7.2	7.2	Daily
Temperature, degrees Fahrenheit	70.1	4.9	58.5	79.2	63.6	65.9	72.4	75.7	74.6	68.2	Daily
Total Coliform Count, CFU/100ml	<1.0	NA	<1.0	5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Daily
Total Dissolved Solids, mg/L	720	13.0	645	767	728	705	722	733	732	704	Weekly
Total Fats, Oils & Grease, mg/L	<6.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<8.0	<5.0	NA	Quarterly
Total Suspended Solids, mg/L	2.0	0.4	1.0	4.0	2.0	3.0	2.0	2.0	2.0	2.0	3/Week
Turbidity, NTU	0.8	0.1	0.4	1.9	0.8	0.8	0.8	0.8	0.8	0.6	Daily
<b>Chemical Parameters</b>											
Arsenic (As), ug/L	<1.1	NA	0.8	1.7	1.0	1.0	0.9	<1.2	1.1	1.1	Monthly
Boron (B), ug/L	460	25.9	410	510	465	435	485	445	495	435	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	51,300	1,670	48,200	57,900	50,000	54,500	51,000	51,300	51,100	49,900	Monthly
Chloride (Cl), ug/L	185,000	14,700	162,000	213,000	201,000	172,000	165,000	181,000	196,000	196,000	Monthly
Total Chromium (Cr), ug/L	0.6	0.1	0.3	1.1	0.4	0.4	0.6	0.6	0.5	0.5	Monthly
Copper (Cu), ug/L	2.9	0.4	2.1	4.8	2.8	3.5	3.4	2.6	2.8	3.0	Monthly
Iron (Fe), ug/L	131	14.8	90.0	180	125	141	145	110	115	140	Monthly
Lead (Pb), ug/L	<0.3	NA	0.1	0.6	0.4	0.5	0.2	<0.2	0.2	0.2	Monthly
Magnesium (Mg), ug/L	30,900	1,360	28,900	34,400	29,700	32,900	31,600	30,400	31,600	29,300	Monthly
Mercury (Hg), ug/L	0.0021	0.0004	0.0014	0.0030	0.0021	0.0028	0.0023	0.0019	0.0019	0.0015	Monthly
Nickel (Ni), ug/L	5.9	0.6	4.2	7.7	4.8	5.5	5.3	5.9	6.5	6.1	Monthly
Phosphate (PO <sub>4</sub> ), ug/L	<2,320	NA	700	8,000	<1,500	1,500	6,500	2,500	1,000	900	Monthly
Potassium (K), ug/L	15,300	816	13,000	17,000	16,500	14,000	15,500	15,500	15,500	15,000	Monthly
Silicon (Si), ug/L	11,000	571	9,450	11,900	11,400	10,700	11,500	11,300	11,200	10,000	Monthly
Silver (Ag), ug/L	<0.1	NA	<0.3	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Monthly
Sodium (Na), ug/L	145,000	9,890	128,000	160,000	157,000	132,000	135,000	147,000	150,000	152,000	Monthly
Sulfate (SO <sub>4</sub> ), ug/L	99,200	4,080	88,000	113,000	98,300	102,000	90,000	94,500	95,500	98,100	Monthly
Zinc (Zn), ug/L	21.4	3.0	15.0	28.0	23.3	23.6	17.0	19.6	17.8	23.3	Monthly
<b>Other</b>											
Dissolved Oxygen, mg/L	7.1	0.2	6.2	8.3	7.3	7.1	6.9	6.9	6.9	7.4	Daily
Ortho Phosphate, mg/L	<0.8	NA	<0.5	3.4	<0.5	<0.5	<1.7	1.4	<0.5	<0.9	Monthly

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)

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