

**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	179	3.4	148	195	176	183	175	180			Weekly
Ammonia (as Nitrogen), mg/L	0.5	0.1	0.1	3.2	0.4	0.6	0.5	0.4			Daily
Bicarbonate (HCO <sub>3</sub> ), mg/L	179	3.4	148	195	176	183	175	180			Weekly
Biological Oxygen Demand, mg/L	<5.0	NA	<2.0	9.0	5.0	6.0	4.0	<4.0			3/Weekly
Conductivity, umhos/cm	1,220	33.0	1,060	1,290	1,220	1,180	1,250	1,250			Weekly
Hardness (as CaCO <sub>3</sub> ), mg/L	258	9.7	233	280	247	270	259	254			Weekly
Nitrate (as Nitrogen), mg/L	10.9	0.9	8.8	14.2	10.5	11.6	11.8	9.8			Monthly
Nitrite (as Nitrogen), mg/L	<0.18	NA	0.02	0.89	<0.26	<0.23	0.16	0.08			Weekly
Permeability SAR [calculated]	3.8	NA	3.6	4.1	4.3	3.5	3.7	4.0			Monthly
pH (units)	7.2	0.1	6.8	7.5	7.1	7.2	7.2	7.2			Daily
Temperature, degrees Fahrenheit	69.5	5.6	58.5	79.2	63.6	65.9	72.4	75.7			Daily
Total Coliform Count, CFU/100ml	<1.0	NA	<1.0	4.0	<1.0	<1.0	<1.0	<1.0			Daily
Total Dissolved Solids, mg/L	722	12.0	645	767	728	705	722	733			Weekly
Total Fats, Oils & Grease, mg/L	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<5.0			Quarterly
Total Suspended Solids, mg/L	2.0	1.0	1.0	4.0	2.0	3.0	2.0	2.0			3/Week
Turbidity, NTU	0.8	NA	0.4	1.7	0.8	0.8	0.8	0.8			Daily
<b>Chemical Parameters</b>											
Arsenic (As), ug/L	<1.2	NA	0.8	1.7	1.0	1.0	0.9	<1.2			Monthly
Boron (B), ug/L	458	22.2	410	500	465	435	485	445			Monthly
Cadmium (Cd), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			Monthly
Calcium (Ca), ug/L	51,700	1,950	49,500	57,900	50,000	54,500	51,000	51,300			Monthly
Chloride (Cl), ug/L	180,000	15,600	162,000	203,000	201,000	172,000	165,000	181,000			Monthly
Total Chromium (Cr), ug/L	0.6	0.1	0.3	1.1	0.4	0.4	0.6	0.6			Monthly
Copper (Cu), ug/L	2.9	0.4	2.1	5.9	2.8	3.5	3.4	2.7			Monthly
Iron (Fe), ug/L	132	16.0	100	180	125	141	145	110			Monthly
Lead (Pb), ug/L	<0.3	NA	0.1	0.6	0.4	0.5	0.2	<0.2			Monthly
Magnesium (Mg), ug/L	31,100	1,410	28,900	34,400	29,700	32,900	31,600	30,400			Monthly
Mercury (Hg), ug/L	0.0022	0.0004	0.0015	0.0030	0.0021	0.0028	0.0023	0.0019			Monthly
Nickel (Ni), ug/L	5.7	0.5	4.2	6.9	4.8	5.5	5.3	5.9			Monthly
Phosphate (PO <sub>4</sub> ), ug/L	<3.0	NA	<1.0	8.0	<1.5	1.5	6.5	2.5			Monthly
Potassium (K), ug/L	15,400	1,030	13,000	17,000	16,500	14,000	15,500	15,500			Monthly
Silicon (Si), ug/L	11,200	359	9,450	11,900	11,400	10,700	11,500	11,300			Monthly
Silver (Ag), ug/L	<0.1	NA	<0.3	0.1	<0.1	<0.1	<0.1	<0.1			Monthly
Sodium (Na), ug/L	142,000	11,500	128,000	160,000	157,000	132,000	135,000	147,000			Monthly
Sulfate (SO <sub>4</sub> ), ug/L	99,400	5,140	88,000	113,000	98,300	102,000	90,000	94,500			Monthly
Zinc (Zn), ug/L	20.1	3.2	15.0	24.3	23.3	23.6	17.0	19.6			Monthly
<b>Other</b>											
Dissolved Oxygen, mg/L	7.1	0.2	6.2	8.3	7.3	7.1	6.9	6.9			Daily
Ortho Phosphate, mg/L	<0.9	NA	<0.5	3.4	<0.5	<0.5	<1.7	1.4			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)