

**Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant
2010**

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	192	10.6	168	225	202	201	201	183	176	188	Weekly
Ammonia (as Nitrogen), mg/L	<0.7	NA	<0.1	3.4	<0.8	0.9	0.6	0.5	0.5	0.9	Daily
Bicarbonate (HCO ₃), mg/L	192	10.6	168	225	202	201	201	183	176	188	Weekly
Biological Oxygen Demand, mg/L	<3.0	NA	<2.0	5.0	3.0	<3.0	<2.0	<2.0	<2.0	<3.0	3/Weekly
Conductivity, umhos/cm	1,230	26.0	1,160	1,330	1,270	1,220	1,240	1,230	1,220	1,190	Weekly
Hardness (as CaCO ₃), mg/L	266	11.0	240	303	275	276	271	253	251	269	Weekly
Nitrate (as Nitrogen), mg/L	10.3	1.5	7.8	12.6	8.3	12.3	10.0	9.0	10.5	11.7	Monthly
Nitrite (as Nitrogen), mg/L	0.28	0.18	0.01	1.12	0.5	0.35	0.21	0.09	0.08	0.45	Weekly
Permeability SAR [calculated]	3.7	NA	3.4	4.3	3.6	3.4	3.7	3.8	4.3	3.7	Monthly
pH (units)	7.2	0.1	6.7	7.5	7.2	7.2	7.1	7.2	7.1	7.1	Daily
Temperature, degrees Fahrenheit	70.5	4.1	55.9	78.6	65.9	67.2	70.9	75.6	75.0	68.5	Daily
Total Coliform Count, CFU/100ml	<1.0	NA	<1.0	8.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	Daily
Total Dissolved Solids, mg/L	725	13.0	653	777	741	732	732	726	719	705	Weekly
Total Fats, Oils & Grease, mg/L	<5.0	NA	<5.0	<5.0	<5.0	<5.0	NA	<5.0	<5.0	NA	Quarterly
Total Suspended Solids, mg/L	<1.0	NA	<1.0	3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3/Week
Turbidity, NTU	0.7	0.1	0.4	1.8	0.7	0.8	0.9	0.7	0.7	0.7	Daily
Chemical Parameters											
Arsenic (As), ug/L	1.1	0.2	0.8	1.8	1.3	1.0	1.1	1.2	0.9	0.9	Monthly
Boron (B), ug/L	477	48.9	420	660	458	465	550	550	465	440	Monthly
Cadmium (Cd), ug/L	<0.1	NA	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Monthly
Calcium (Ca), ug/L	53,400	1,470	48,700	58,200	54,500	52,200	54,100	52,700	50,400	53,100	Monthly
Chloride (Cl), ug/L	183,000	9,610	167,000	204,000	189,000	173,000	182,000	173,000	198,000	183,000	Monthly
Total Chromium (Cr), ug/L	0.5	0.1	0.4	0.7	0.5	0.5	0.4	0.6	0.5	0.5	Monthly
Copper (Cu), ug/L	3.0	0.7	1.7	4.8	3.7	3.7	2.5	2.6	2.0	2.7	Monthly
Iron (Fe), ug/L	107	12.0	80.0	150	110	110	110	85.0	100	120	Monthly
Lead (Pb), ug/L	0.3	0.1	0.1	0.7	0.3	0.2	0.3	0.3	0.5	0.4	Monthly
Magnesium (Mg), ug/L	33,300	2,050	29,200	37,400	35,000	34,000	33,100	31,200	29,400	31,500	Monthly
Mercury (Hg), ug/L	0.0016	0.0003	0.0011	0.0027	0.0017	0.0021	0.0017	0.0014	0.0012	0.0014	Monthly
Nickel (Ni), ug/L	6.5	0.5	5.1	9.2	6.8	5.8	6.9	6.5	6.1	7.1	Monthly
Phosphate (PO ₄), ug/L	1,500	901	700	4,500	700	3,200	1,020	1,200	1,760	1,130	Monthly
Potassium (K), ug/L	15,500	1,150	13,000	19,000	15,800	13,500	15,000	15,500	17,000	15,000	Monthly
Silicon (Si), ug/L	10,900	314	9,810	11,900	11,000	10,500	10,500	11,300	11,000	10,900	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	141,000	8,300	128,000	160,000	140,000	129,000	141,000	141,000	155,000	139,000	Monthly
Sulfate (SO ₄), ug/L	99,900	6,870	89,500	115,000	106,000	104,000	108,000	91,100	94,200	97,300	Monthly
Zinc (Zn), ug/L	23.2	3.0	16.7	34.2	27.3	22.9	19.9	22.9	19.3	20.5	Monthly
Other											
Dissolved Oxygen, mg/L	7.0	0.3	6.0	8.3	7.4	7.2	7.1	6.9	6.7	6.7	Daily
Ortho Phosphate, mg/L	1.3	0.9	0.3	3.9	0.4	2.8	0.8	1.0	2.0	0.8	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)

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