

**Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant
2011**

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	170	20.0	115	230	179	199	179	169	146	145	Weekly
Ammonia (as Nitrogen), mg/L	0.6	0.2	0.1	3.0	0.6	0.7	0.7	0.5	0.4	1.0	Daily
Bicarbonate (HCO ₃), mg/L	170	20.0	115	230	179	199	179	169	146	145	Weekly
Biological Oxygen Demand, mg/L	<2.0	NA	<2.0	4.0	3.0	<2.0	<2.0	<2.0	<2.0	<3.0	3/Weekly
Conductivity, umhos/cm	1,160	24.0	1,040	1,260	1,180	1,180	1,130	1,170	1,130	1,140	Weekly
Hardness (as CaCO ₃), mg/L	245	21.1	201	311	262	272	247	244	222	219	Weekly
Nitrate (as Nitrogen), mg/L	10.9	1.3	7.9	13.8	13.0	10.0	10.6	9.4	12.0	10.6	Monthly
Nitrite (as Nitrogen), mg/L	0.23	0.13	0.03	0.74	0.18	0.32	0.4	0.12	0.06	0.31	Weekly
Permeability SAR [calculated]	3.7	0.2	3.1	4.0	3.5	3.4	3.5	3.8	3.9	3.8	Monthly
pH (units)	7.4	0.1	6.7	8.8	7.2	7.5	7.5	7.5	7.4	7.5	Daily
Temperature, degrees Fahrenheit	70.6	4.1	62.2	85.8	65.9	67.2	71.4	75.0	75.6	68.5	Daily
Total Coliform Count, CFU/100ml	<1.0	NA	<1.0	79.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	Daily
Total Dissolved Solids, mg/L	689	9.0	625	760	700	687	681	696	678	686	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	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3/Week
Turbidity, NTU	0.8	0.1	0.4	1.9	0.9	0.8	0.8	0.7	0.7	0.8	Daily
Chemical Parameters											
Arsenic (As), ug/L	0.9	0.1	0.7	1.1	1.0	1.0	0.9	0.9	1.0	0.8	Monthly
Boron (B), ug/L	450	27.6	400	550	420	495	465	455	435	430	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	49,900	4,310	43,700	55,500	55,500	52,600	52,700	48,500	45,000	45,400	Monthly
Chloride (Cl), ug/L	159,000	10,300	137,000	184,000	163,000	149,000	144,000	162,000	171,000	165,000	Monthly
Total Chromium (Cr), ug/L	0.5	0.1	0.4	0.7	0.5	0.5	0.6	0.5	0.4	0.4	Monthly
Copper (Cu), ug/L	3.3	0.5	1.6	4.8	3.2	3.5	3.3	3.5	2.2	3.5	Monthly
Iron (Fe), ug/L	117	8.6	80.0	150	115	100	120	105	115	100	Monthly
Lead (Pb), ug/L	0.3	0.1	0.1	0.6	0.3	0.4	0.3	0.3	0.1	0.2	Monthly
Magnesium (Mg), ug/L	30,700	3,480	25,200	35,900	33,800	35,200	31,300	30,400	27,700	26,100	Monthly
Mercury (Hg), ug/L	0.0017	0.0006	0.0010	0.0048	0.0015	0.0015	0.0016	0.0029	0.0012	0.0013	Monthly
Nickel (Ni), ug/L	6.5	0.8	4.3	8.3	6.6	6.7	6.7	4.7	5.4	5.7	Monthly
Phosphate (PO ₄), ug/L	2,670	1,220	880	6,800	3,690	1,990	1,140	2,530	4,500	2,180	Monthly
Potassium (K), ug/L	14,500	775	12,000	16,000	15,000	13,000	15,000	14,500	15,000	14,500	Monthly
Silicon (Si), ug/L	10,600	402	9,340	11,200	10,400	10,700	10,500	11,100	10,800	9,920	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	133,000	3,740	121,000	146,000	134,000	129,000	131,000	139,000	135,000	130,000	Monthly
Sulfate (SO ₄), ug/L	89,300	6,680	77,000	101,000	99,000	95,000	90,000	83,800	81,700	86,500	Monthly
Zinc (Zn), ug/L	20.2	1.9	16.4	29.3	21.0	18.2	20.2	18.2	23.2	20.3	Monthly
Other											
Dissolved Oxygen, mg/L	7.0	0.3	6.0	8.0	7.2	7.4	6.8	6.7	6.8	7.1	Daily
Ortho Phosphate, mg/L	2.0	1.1	0.4	6.2	2.2	1.2	0.7	1.5	4.0	1.9	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)