Recycled Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant
2013

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 CaCO3), mg/L	171	5.5	142	193	160	172	169	177	170	174	Weekly
Ammonia (as Nitrogen), mg/L	<0.6	NA	<0.1	2.0	<0.6	0.8	0.8	<0.4	<0.4	0.6	Daily
Bicarbonate (HCO3), mg/L	171	5.5	142	193	160	172	169	177	170	174	Weekly
Biological Oxygen Demand, mg/L	3.0	2.0	2.0	7.0	6.0	5.0	3.0	2.0	2.0	3.0	3/Weekly
Conductivity, umhos/cm	1,270	23.0	1,160	1,350	1,230	1,270	1,260	1,290	1,290	1,260	Weekly
Hardness (as CaCO3), mg/L	252	5.1	237	275	245	258	249	255	249	256	Weekly
Nitrate (as Nitrogen), mg/L	13.5	0.9	10.6	18.7	15.0	13.7	13.3	12.5	13.7	12.8	Monthly
Nitrite (as Nitrogen), mg/L	<0.29	NA	<0.02	1.03	0.33	0.38	0.33	0.08	<0.1	0.5	Weekly
Permeability SAR [calculated]	4.2	0.2	3.8	4.5	3.9	4.3	4.2	4.1	4.3	4.3	Monthly
pH (units)	7.6	0.1	7.1	8.0	7.5	7.5	7.5	7.6	7.7	7.7	Daily
Temperature, degrees Fahrenheit	71.4	4.3	61.2	78.6	65.5	69.3	73.8	76.5	74.6	68.2	Daily
Total Coliform Count, CFU/100ml	<1.0	NA	<1.0	52.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	Daily
Total Dissolved Solids, mg/L	735	14.0	660	807	720	746	735	751	742	715	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	<2.0	NA	<1.0	4.0	3.0	2.0	<1.0	<1.0	<1.0	<1.0	3/Week
Turbidity, NTU	0.8	0.1	0.5	1.7	1.0	0.9	0.8	0.8	0.8	0.9	Daily
Chemical Parameters											
Arsenic (As), ug/L	1.1	0.1	0.8	1.3	1.1	1.1	1.0	1.0	1.1	1.0	Monthly
Boron (B), ug/L	417	25.8	400	500	400	400	450	400	450	400	Monthly
Cadmium (Cd), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	Monthly
Calcium (Ca), ug/L	50,300	1,400	46,800	53,300	50,200	49,300	49,200	53,000	49,800	50,300	Monthly
Chloride (Cl), ug/L	205,000	7,600	167,000	234,000	196,000	200,000	202,000	206,000	218,000	207,000	Monthly
Total Chromium (Cr), ug/L	0.5	0.1	0.4	0.6	0.4	0.6	0.4	0.5	0.5	0.5	Monthly
Copper (Cu), ug/L	3.2	1.1	2.0	5.5	4.0	4.8	2.5	2.2	2.3	2.5	Monthly
Iron (Fe), ug/L	127	13.4	80.0	180	120	148	131	121	110	135	Monthly
Lead (Pb), ug/L	<0.5	NA	0.1	2.6	0.2	1.0	<0.2	0.3	0.5	0.2	Monthly
Magnesium (Mg), ug/L	30,600	645	28,700	32,600	30,500	29,900	29,800	31,300	30,900	31,200	Monthly
Mercury (Hg), ug/L	0.0014	0.0003	0.0011	0.0021	0.0019	0.0017	0.0013	0.0013	0.0012	0.0011	Monthly
Nickel (Ni), ug/L	5.5	0.9	3.7	7.8	4.6	6.6	5.7	5.4	5.3	4.1	Monthly
Phosphate (PO4), ug/L	2,880	1,380	780	10,100	4,930	3,920	1,990	1,550	4,070	2,170	Monthly
Potassium (K), ug/L	16,500	519	15,000	18,200	16,500	16,000	16,000	16,700	17,400	16,500	Monthly
Silicon (Si), ug/L	10,100	338	9,640	10,900	9,900	9,720	10,000	10,700	10,200	10,200	Monthly
Silver (Ag), ug/L	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	Monthly
Sodium (Na), ug/L	153,000	5,560	139,000	161,000	143,000	156,000	151,000	154,000	158,000	157,000	Monthly
Sulfate (SO4), ug/L	101,000	3,900	91,500	127,000	108,000	103,000	98,500	98,700	97,600	101,000	Monthly
Zinc (Zn), ug/L	23.1	3.2	19.0	30.8	26.2	26.9	19.5	20.8	20.5	21.1	Monthly
Other											
Dissolved Oxygen, mg/L	6.9	0.2	6.0	7.9	7.0	6.6	6.8	6.8	7.1	7.1	Daily
Ortho Phosphate, mg/L	2.8	1.7	0.4	8.4	5.7	3.6	1.1	1.4	3.1	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)
ug/L = Micrograms per Liter (parts per billion)