1999 Water Quality Information for the San Jose/Santa Clara Water Pollution Control Plant

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	179	8.12	157	204	179	178	165	177	190	182	Weekly
Ammonia (as Nitrogen), mg/L	1.14	0.19	<0.1	1.8	1.2	1.04	0.95	0.97	1.3	1.4	Daily
Bicarbonate (HCO3), mg/L	196	8.12	157	197	179	178	165	177	190	182	Weekly
Biological Oxygen Demand, mg/L	4.42	0.69	3.0	7.0	5.4	5.0	3.9	3.7	3.9	4.6	3/Week
Conductivity, µmhos/cm	1,251	100.8	1,126	1,440	1,126	1,290	1,264	1,150	1,274	1,402	Monthly
Hardness (as CaCO3), mg/L	246	10.65	228	276	250	255	241	235	236	261	Weekly
Nitrate (as Nitrogen), mg/L	8.48	1.32	5.7	13.6	9.4	9.8	8.6	6.4	7.4	9.3	Weekly
Nitrite (as Nitrogen), mg/L	0.150	0.05	<0.05	0.38	0.13	0.11	0.15	0.09	0.21	0.21	Weekly
Permeability SAR	2.05	0.04	2.09	2.66	2.07	1.97	2.05	2.05	2.09	2.08	Monthly
pH (units)	7.22	0.04	6.8	7.5	7.2	7.2	7.2	7.2	7.2	7.3	Daily
Temperature, degrees Fahrenheit	20.2	2.43	12.0	26.7	17.2	18.9	21.2	23.4	22.1	18.2	Daily
Total Coliform Count, MPN	3.43	0.85	<2	23.0	4.8	3.4	3.3	3.1	2.2	3.8	Daily
Total Dissolved Solids, mg/L	744	7.57	530	805	745	743	750	730	746	751	Weekly
Total Fats, Oils & Grease, mg/L	2.67	0.58	<2	3.0	<2	3.0	N.A.	3.0	<2	2.0	Quarterly
Total Suspended Solids, mg/L	1.75	0.29	0.7	3.2	1.8	1.8	1.7	1.7	1.3	2.2	3/Week
Turbidity, NTU	1.27	0.19	0.8	2.1	1.5	1.1	1.3	1.3	1.0	1.40	Weekly
Chemical Parameters											
Arsenic (As) µg/L	0.93	0.28	0.5	1.8	1.10	1.30	0.95	0.50	0.75	1.0	Monthly
Boron (B), µg/L	501	24	430	560	500	490	488	514	472	541	Monthly
Cadmium (Cd), µg/L	<0.50	n.a.	<0.5	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Monthly
Calcium (Ca), µg/L	443,000	1,300	40,800	46,900	44,600	46,700	43,400	43,300	43,400	44,600	Monthly
Chloride (Cl), µg/L	190,933	9,823.8	177,000	205,000	182,600	186,000	198,000	179,000	196,000	204,000	Weekly
Total Chromium (Cr), µg/L	0.69	0.15	<0.5	1.1	0.70	<0.50	0.80	0.90	0.50	0.75	Monthly
Copper (Cu), µg/L	3.77	1.0	1.4	8.2	3.96	4.14	3.35	2.80	2.98	5.39	3/Week
Lead (Pb), µg/L	<1.0	N.A.	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Monthly
Magnesium (Mg), µg/L	28,200	2,300	23,500	31,500	29,200	31,300	27,800	25,400	26,000	29,700	Monthly
Mercury (Hg), µg/L	0.0038	0.0011	0.002	0.008	0.0035	0.0035	0.0040	0.0055	0.0020	0.0040	Monthly
Nickel (Ni), µg/L	6.35	0.52	4	11	5.7	6.5	6.5	6.2	6.0	7.20	3/Week
Phosphate (PO4), µg/L	3,420	3,100	300	13,000	4,900	3,600	8,850	1,050	700	1,400	Monthly
Potassium (K), µg/L	14,000	720	12,600	15,600	12,800	14,200	14,100	13,600	14,400	14,900	Monthly
Silicon (Si), µg/L	9,720	830	7,500	10,800	9,740	8,700	8,760	10,400	10,000	10,700	Monthly
Silver (Ag), µg/L	<1.0	N.A	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Weekly
Sodium (Na), µg/L	153,000	6,000	142,000	165,000	158,000	154,000	150,000	144,000	153,000	161,000	Monthly
Sulfate (SO4), µg/L	129,833	6,080.0	124,000	147,000	133,000	133,000	136,000	119,000	127,000	131,000	Weekly
Zinc (Zn), µg/L	49.2	7.19	36	67	57.5	47.0	41.5	41.0	51.5	56.5	Weekly
Other											
Dissolved Oxygen, mg/L	7.22	0.23	6.2	8.2	7.2	7.5	7.0	7.0	7.1	7.5	Daily
Ortho Phosphate, mg/L	2.98	2.1	1.0	9.8	5.6	5.5	2.4	1.1	1.0	2.3	Monthly
TOC, mg/L	9.20	1.09	6.0	20.0	10.3	9.7	9.9	8.3	7.8	N.A.	Daily

N/A = Not Available
NTU = Nephelometric Turbidity Units (measure of the suspended material in water)
MPN = Most Probable Number
mg/L = Milligrams per Liter (parts per million)
µg/L = Micrograms per Liter (parts per billion)
TOC = Total Organic Carbon
SAR = [Na+] /sqrt(([Ca++]+[Mg++])/2)