

Table1. Comparison of chemical constituents found in recycled water from South Bay Water Recycling and in the municipal drinking water of the City of San Jose, California in the year 2001. (Data adapted from the 2001 South Bay Recycled Water Quality Report).

Chemical constituents	Recycled water				San Jose Municipal drinking water
	Unit of measurement	Minimum level	Maximum level	Yearly average	
Alkalinity – Total CaCO ₃	ppm	140	220	184	15 - 234
Sodium Adsorption Ratio - SAR	mg/L	4.3	4.8	4.5	-
Electrical Conductivity - EC _w	dS/m	1.1	1.5	1.3	-
Hydrogen Ion Activity - pH	Units	6.68	7.40	6.98	7.2 – 9.8
Nitrate (as Nitrogen)	ppm	5.8	15.9	9.2	ND -12
Total Dissolved Solids (TDS)	ppm	680	840	748	21 -390
Arsenic	ppb	0.7	1.9	1.2	-
Boron	ppm	0.49	0.59	0.52	-
Cadmium	ppb	0.5	0.5	0.5	-
Calcium	ppm	47.2	51.8	48.8	4 - 39
Chloride	ppm	173	244	208	3 -86
Copper	ppb	1.9	6.7	3.5	0.114 – 0.260
Chromium	ppb	0.7	0.7	0.7	15 -17
Iron	ppm	0.14	0.14	0.14	-
Lead	ppb	<1.0	<1.0	<1.0	2.2 – 5.8
Magnesium	ppm	26.6	32.1	29.0	0.5 – 4.5
Mercury	ppb	0.0020	0.0035	0.0026	
Nickel	ppb	4.0	10	6.5	-
Sodium	ppm	139	185	162	3 - 58
Silver	ppb	<0.2	<1.0	<1.0	-
Phosphate	ppm	1.0	9.50	4.46	-
Potassium	ppm	12.6	16.4	15.0	0.5 – 2.9
Sulfate	ppm	94	124	107	0.5 – 56.3
Zinc	ppb	27	86	52	0.28 – 0.56
Nitrate	ppm	5.8	15.9	9.2	ND - 12
Nitrite	ppm	0.1	0.9	0.3	-
Ammonia	ppm	0.1	1.2	0.3	-