

Table 3B-5. Comparison of Average Water Quality for Major Sources of Los Angeles Aqueduct and Los Angeles Water Supply

Water Quality Parameter Source	Unit	Lee	Walker	Parker	Rush	Grant	Big	East	Mammoth	USGS	Convict	McGee	Hilton	Crooked	Rock	Lake	LADWP	USGS	Owens	LA	Colorado	California
		Vining Creek (JSA ^a)	Creek (JSA)	Creek (JSA)	Creek (JSA)	Creek (JSA)	Lake Reservoir Outlet (JSA)	Springs (JSA)	Portal (JSA)	Creek (JSA)	Hot Creek (JSA)	Creek (JSA)	Creek (JSA)	Creek (JSA)	Creek (JSA)	Creek (JSA)	Crowley Reservoir Outlet (LADWP ^b)	Tinemaha Reservoir Outlet (LADWP)	Tinemaha Reservoir Outlet (USGS ^c)	Valley Ground- Water (LADWP)	Aqueduct Filtration Plant (LADWP)	River Aqueduct (MWD ^d)
EC	FS/cm	40.0	44.0	54.0	57.0	61.0	206.0	422.0	97.0	506.0	160.0	90.0	29.0	74.0	36.0	325.0	316.0	287.0	288.0	340.0	887.0	536.0
TDS	mg/l	28.0	32.0	37.0	38.0	37.0	151.0	263.0	61.0	325.0	98.0	59.0	21.0	61.0	27.0	--	--	182.0	--	--	556.0	301.0
Alkalinity	mg/l	11.0	12.0	13.0	20.0	22.0	84.0	213.0	44.0	154.0	64.0	31.0	12.0	33.0	14.0	121.0	110.0	96.0	99.0	108.0	130.0	87.0
Hardness	mg/l	15.0	14.0	19.0	21.0	24.0	45.0	181.0	34.0	54.0	70.0	38.0	10.0	21.0	9.0	70.0	76.0	71.0	84.0	87.0	279.0	132.0
Calcium	mg/l	4.9	4.7	6.8	7.3	8.0	6.7	40.0	8.3	12.0	28.0	14.0	3.6	7.1	3.0	20.0	23.0	22.0	23.0	25.0	69.0	29.0
Magnesium	mg/l	0.5	0.6	0.6	0.7	1.0	6.8	18.0	3.2	5.5	0.5	0.4	0.2	0.9	0.3	4.8	4.6	4.0	6.9	6.1	26.0	14.0
Sodium	mg/l	1.7	2.3	1.8	2.1	2.0	25.0	22.0	6.0	81.0	1.4	1.7	1.6	6.6	3.4	41.0	36.0	32.0	27.0	37.0	79.0	54.0
Potassium	mg/l	0.6	0.8	0.8	0.7	1.0	4.2	3.1	1.5	7.9	0.8	0.8	0.6	2.1	0.7	4.3	3.9	3.9	3.1	4.0	4.0	3.0
Sulfate	mg/l	4.8	5.9	7.8	3.6	4.0	6.8	6.7	4.0	26.0	14.0	9.4	<2.0	1.9	2.8	13.0	24.0	23.0	19.0	28.0	--	--
Chloride	mg/l	1.0	1.0	1.0	2.0	2.0	9.0	7.3	1.0	45.0	<1.0	<1.0	<1.0	<1.0	<1.0	19.0	15.0	13.0	18.0	18.0	63.0	70.0
Silica	mg/l	6.7	8.6	8.9	7.8	6.0	52.0	50.0	15.0	55.0	12.0	8.6	6.2	21.0	8.1	24.0	24.0	23.0	29.0	20.0	--	--
Boron	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	0.4	0.27	<0.02	2.0	<0.02	<0.02	<0.02	<0.02	<0.02	0.7	0.5	--	0.6	0.5	0.1	0.25
Fluoride	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.4	<0.1	2.0	<0.1	<0.1	<0.1	0.2	<0.1	0.7	0.6	0.6	0.6	0.6	0.3	0.21
Bromide	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	--	--	--	0.14	--	--
TSS	mg/l	4.0	8.0	9.0	6.0	4.0	15.0	9.0	26.0	12.0	5.0	8.0	6.0	8.0	5.0	--	--	39.0	--	--	--	--
Turbidity	NTU ^e	0.4	1.2	1.5	0.5	1.0	0.8	1.1	2.3	1.9	0.4	0.8	0.6	1.1	1.1	3.8	12.0	6.5	--	5.2	--	--
TOC	mg/l	<3.0	3.2	4.5	5.5	2.0	<3.0	<3.0	4.8	4.1	4.4	3.7	6.2	7.3	4.2	2.6	2.2	4.7	--	2.1	--	--
Color	units	4.0	6.0	6.0	6.0	5.0	8.0	5.0	11.0	12.0	3.0	6.0	10.0	35.0	12.0	12.0	22.0	--	3.0	12.0	--	--
TKN ^f	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.4	0.4	0.6	0.4	0.3	--	--
Nitrate	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.61	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.11	0.12	0.11	0.63	0.08	0.75	2.1
Phosphorus	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	0.35	0.04	<0.02	0.26	<0.02	<0.02	<0.02	<0.02	<0.02	0.1	0.09	0.09	0.35	0.07	--	--
Arsenic	Fg/l	<4.0	<4.0	<4.0	<4.0	<4.0	17.0	13.0	6.0	224.0	5.0	<4.0	<4.0	<4.0	<4.0	44.0	23.0	24.0	11.0	22.0	3.0	3.0

^a Jones & Stokes Associates (JSA) 1991 data.

^b LADWP 1940-1991 data.

^c U.S. Geological Survey (USGS) 1974-1986 data.

^d Metropolitan Water District (MWD) 1985-1990 monthly data.

^e Nephelometric Turbidity Units.

^f Total Kjeldahl Nitrogen.