

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

September 2014

CONSTITUENTS	UNITS	SOURCE WATERS								TREATMENT PLANT EFFLUENTS				
		LAKE HAVASU	SAN JACINTO TUNNEL	LAKE MATHEWS	CASTAIC LAKE	SILVER-WOOD LAKE	LAKE PERRIS	DIAMOND VALLEY LAKE	LAKE SKINNER	WEY-MOUTH	DIEMER	JENSEN	SKINNER	MILLS
SILICA	mg/L	8.2	7.9	7.9	12.4	12.7	6.9	10.0	8.7	8.3	8.6	12.3	9.0	7.7
CALCIUM	mg/L	73	73	72	32	29	28	31	57	72	73	31	63	27
MAGNESIUM	mg/L	25	26	26	12	10	13	14	22	26	26	12	23	13
SODIUM	mg/L	88	90	92	68	74	71	57	79	97	98	71	90	76
POTASSIUM	mg/L	4.6	4.7	4.6	2.7	2.6	3.2	3.4	4.2	4.6	4.6	2.6	4.4	3.2
CARBONATE	mg/L	0	0	2	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	165	161	152	106	104	115	112	143	152	143	115	143	113
SULFATE	mg/L	228	226	227	65	66	51	63	164	241	246	66	195	59
CHLORIDE	mg/L	84	85	86	86	83	92	72	81	92	92	86	94	98
NITRATE	mg/L	1.1	0.9	0.6	2.8	1.2	<0.1	<0.1	0.2	0.7	0.7	3.0	0.8	0.6
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.2	0.1	0.1	0.2	0.8	0.9	0.8	0.8	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	595	594	594	334	331	323	306	488	618	621	342	551	342
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	288	286	284	130	112	124	133	228	292	290	128	247	126
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	135	132	129	87	85	94	92	117	125	117	94	117	93
FREE CARBON DIOXIDE	mg/L	3.5	1.2	1.0	4.4	0.8	0.9	3.7	1.4	2.3	2.0	1.3	2.0	1.2
pH	pH	7.89	8.34	8.44	7.60	8.31	8.31	7.70	8.23	8.05	8.08	8.18	8.08	8.18
SPECIFIC CONDUCTANCE	µS/cm	970	961	963	595	587	596	550	812	992	998	602	902	626
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.53	0.68	1.6	2.2	0.81	1.0	2.1	0.56	0.04	0.04	0.04	0.06	0.05
TEMPERATURE	°C	25	27	28	19	22	26	17	27	27	29	24	29	27
BROMIDE	mg/L	0.08	0.06	0.09	0.29	0.29	0.31	0.22	0.13	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.02	3.12	3.12	1.94	3.10	3.80	2.45	3.13	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.62	0.65	0.29	0.59	0.29
STATE PROJECT WATER	%	0	0	0	100	100	100	100	31	0	0	100	25	100