

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

June 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	7.5	7.2	7.2	11.3	9.7	6.9	10.1	8.6	7.5	7.4	11.4	8.9	10.1
CALCIUM	mg/L	76	75	73	28	27	28	29	69	73	73	28	57	28
MAGNESIUM	mg/L	25	25	25	12	8	14	14	24	26	26	12	21	7
SODIUM	mg/L	87	87	87	65	67	66	56	84	92	92	72	82	72
POTASSIUM	mg/L	4.3	4.4	4.4	2.8	2.1	3.2	3.4	4.3	4.4	4.4	2.7	4.0	2.1
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	165	163	160	102	90	111	99	155	157	155	105	137	92
SULFATE	mg/L	219	216	219	52	57	48	63	205	227	226	64	163	65
CHLORIDE	mg/L	82	82	83	84	75	89	71	82	87	87	84	87	76
NITRATE	mg/L	1.3	1.2	1.0	3.0	2.7	0.3	1.0	0.6	1.1	1.1	3.0	0.9	3.3
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.3	0.8	0.9	0.8	0.8	0.9
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	585	580	580	309	294	311	297	555	597	595	330	493	310
TOTAL HARDNESS AS CaCO ₃	mg/L	290	288	288	120	100	126	128	267	286	286	118	226	96
TOTAL ALKALINITY AS CaCO ₃	mg/L	135	134	131	84	74	91	81	127	129	127	86	112	75
FREE CARBON DIOXIDE	mg/L	2.2	1.7	1.6	5.3	2.1	1.8	8.1	1.6	2.1	2.2	1.1	1.9	0.7
pH	pH	8.09	8.20	8.21	7.51	7.85	8.02	7.31	8.22	8.09	8.07	8.22	8.08	8.32
SPECIFIC CONDUCTANCE	µS/cm	950	946	942	560	525	576	537	899	962	969	592	831	542
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.37	0.21	0.70	0.84	0.56	1.1	0.46	0.56	0.05	0.04	0.04	0.06	0.06
TEMPERATURE	°C	22	24	23	14	17	22	17	22	24	26	21	26	22
BROMIDE	mg/L	0.07	0.06	0.07	0.27	0.28	0.29	0.21	0.09	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.14	2.85	2.93	2.22	1.96	3.98	2.24	3.20	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.62	0.64	0.20	0.50	0.24
STATE PROJECT WATER	%	0	0	0	100	100	100	95	11	0	0	100	32	100