

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

September 2015

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	8.0	7.0	14.3	9.9	10.9	8.2	7.0	7.1	7.6	13.9	7.2	10.4
CALCIUM	mg/L	76	74	71	36	26	30	29	73	81	76	35	80	32
MAGNESIUM	mg/L	25	25	26	9	11	13	14	26	24	25	9	25	12
SODIUM	mg/L	104	106	106	78	81	78	67	105	113	110	99	112	81
POTASSIUM	mg/L	4.9	5.0	4.9	2.5	3.1	3.3	3.8	4.9	4.9	4.9	2.6	5.1	3.1
CARBONATE	mg/L	0	0	1	0	5	4	4	0	0	0	0	0	0
BICARBONATE	mg/L	163	159	148	115	98	102	102	156	149	142	120	151	102
SULFATE	mg/L	246	248	249	84	70	70	72	247	260	261	114	250	79
CHLORIDE	mg/L	93	96	96	81	89	100	79	96	102	102	82	106	96
NITRATE	mg/L	1.1	0.9	0.4	4.2	0.8	<0.1	<0.1	0.4	0.4	0.5	4.2	0.7	2.2
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.3	0.8	0.8	0.7	0.7	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	640	643	636	367	345	360	328	638	668	659	420	662	367
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	296	294	287	127	120	122	133	290	298	294	130	298	124
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	134	130	123	94	88	90	90	128	122	116	98	124	84
FREE CARBON DIOXIDE	mg/L	3.2	1.3	1.1	4.5	0.3	0.5	0.5	1.1	2.1	1.9	0.8	1.9	1.1
pH	pH	7.93	8.30	8.37	7.63	8.73	8.58	8.58	8.37	8.07	8.09	8.38	8.12	8.18
SPECIFIC CONDUCTANCE	µS/cm	1040	1060	1050	638	630	673	598	1050	1060	1050	700	1060	646
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.89	0.40	2.7	1.2	1.0	1.6	0.60	0.58	0.05	0.04	0.04	0.05	0.06
TEMPERATURE	°C	26	28	28	22	24	27	24	28	27	28	26	30	26
BROMIDE	mg/L	0.09	0.07	0.09	0.29	0.31	0.36	0.24	0.09	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.21	3.20	3.38	2.38	3.59	3.98	3.18	3.24	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.63	0.65	0.60	0.74	0.26
STATE PROJECT WATER	%	0	0	0	100	100	100	100	0	0	0	100	0	100