

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

January 2016

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	7.6	7.7	8.2	14.6	12.9	10.1	9.7	8.2	8.1	8.2	14.4	7.8	12.4
CALCIUM	mg/L	74	75	76	34	29	30	30	73	76	76	33	78	31
MAGNESIUM	mg/L	27	27	27	12	10	14	15	27	28	27	12	28	10
SODIUM	mg/L	99	97	98	79	84	84	61	98	102	102	93	104	92
POTASSIUM	mg/L	4.8	4.9	4.9	2.9	2.6	3.4	3.8	4.8	5.0	4.9	2.9	5.0	2.6
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	157	154	154	111	98	112	112	152	148	149	115	150	95
SULFATE	mg/L	252	252	252	82	80	74	71	252	263	263	102	254	85
CHLORIDE	mg/L	95	97	98	92	96	104	79	97	103	103	94	107	101
NITRATE	mg/L	1.3	1.3	0.9	3.4	3.0	0.2	0.1	1.1	0.9	1.0	3.5	1.3	4.8
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.3	0.8	0.8	0.8	0.7	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	639	639	642	376	367	376	326	637	661	660	413	663	387
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	303	302	302	128	114	132	134	300	306	300	126	308	112
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	129	126	126	91	80	92	92	125	121	122	94	123	78
FREE CARBON DIOXIDE	mg/L	1.5	2.0	2.2	2.8	2.3	2.6	3.2	2.3	2.1	2.0	0.9	2.1	0.7
pH	pH	8.23	8.10	8.07	7.82	7.85	7.86	7.76	8.04	8.07	8.10	8.35	8.07	8.38
SPECIFIC CONDUCTANCE	µS/cm	1030	1040	1040	650	661	680	592	1040	1050	1040	696	1050	662
COLOR	CU	3	3	3	5	5	5	1	3	1	1	1	1	1
TURBIDITY	NTU	0.62	0.26	1.1	4.5	0.85	2.5	0.57	0.44	0.05	0.04	0.04	0.06	0.06
TEMPERATURE	°C	10	12	16	12	9	12	13	13	13	15	15	15	12
BROMIDE	mg/L	0.08	0.05	0.07	0.33	0.34	0.35	0.24	0.06	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.12	3.04	3.00	2.80	2.90	3.68	2.60	3.12	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.45	0.50	0.38	0.48	0.23
STATE PROJECT WATER	%	0	0	0	100	100	100	100	0	0	0	100	0	100