

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

December 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	8.1	8.2	8.5	14.6	13.2	9.7	9.3	8.9	8.4	8.5	14.0	8.9	13.7
CALCIUM	mg/L	78	77	77	33	30	30	32	76	76	77	33	79	30
MAGNESIUM	mg/L	27	26	26	12	11	13	14	26	27	27	12	27	10
SODIUM	mg/L	96	98	98	79	81	81	61	99	104	104	96	105	94
POTASSIUM	mg/L	4.8	5.0	5.0	3.0	2.9	3.4	3.8	5.0	5.0	5.1	3.1	5.1	2.7
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	156	156	159	112	107	115	113	156	149	151	116	151	99
SULFATE	mg/L	249	241	249	83	75	70	71	253	264	263	107	258	86
CHLORIDE	mg/L	94	93	97	93	86	100	79	96	103	102	92	108	98
NITRATE	mg/L	1.2	1.1	0.8	3.3	1.5	<0.1	<0.1	1.0	0.8	0.8	3.1	1.1	4.6
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	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	636	628	641	377	354	365	327	643	663	664	419	668	389
TOTAL HARDNESS AS CaCO ₃	mg/L	304	302	302	134	118	132	140	302	306	306	136	306	116
TOTAL ALKALINITY AS CaCO ₃	mg/L	128	128	130	92	88	94	93	128	122	124	95	124	81
FREE CARBON DIOXIDE	mg/L	1.9	1.6	1.6	3.2	2.3	1.6	2.6	1.8	2.2	2.0	1.0	1.8	0.8
pH	pH	8.14	8.21	8.21	7.76	7.89	8.09	7.86	8.17	8.05	8.11	8.28	8.14	8.29
SPECIFIC CONDUCTANCE	µS/cm	1040	1040	1050	673	639	681	593	1040	1070	1060	728	1080	677
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.73	0.95	1.8	2.7	1.8	2.3	0.40	0.50	0.05	0.04	0.04	0.04	0.06
TEMPERATURE	°C	14	15	18	15	12	15	16	15	16	17	17	16	14
BROMIDE	mg/L	0.09	0.05	0.07	0.30	0.32	0.35	0.25	0.07	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.00	3.18	3.00	2.90	3.48	3.78	2.76	3.24	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.49	0.61	0.36	0.60	0.21
STATE PROJECT WATER	%	0	0	0	100	100	100	100	0	0	0	100	0	100