

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

May 2012

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	8.3	7.7	7.4	12.9	11.1	12.8	9.4	9.2	8.3	8.6	12.4	9.0	9.5
CALCIUM	mg/L	71	71	68	23	26	23	28	47	44	43	23	47	25
MAGNESIUM	mg/L	24	25	25	11	11	11	13	18	17	17	11	18	12
SODIUM	mg/L	81	82	85	38	56	47	51	66	74	73	43	76	60
POTASSIUM	mg/L	4.3	4.3	4.5	2.3	2.6	2.8	3.2	3.6	3.5	3.4	2.3	3.7	2.6
CARBONATE	mg/L	0	1	1	0	1	0	0	4	0	0	1	0	0
BICARBONATE	mg/L	165	161	155	88	102	95	99	123	116	117	89	122	98
SULFATE	mg/L	214	216	215	45	48	40	67	131	134	128	48	146	56
CHLORIDE	mg/L	77	79	84	49	72	64	62	71	84	83	52	84	77
NITRATE	mg/L	1.5	1.5	1.2	1.7	3.1	0.2	0.9	0.7	2.4	2.5	1.7	1.3	3.7
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.2	0.9	0.9	0.8	0.9	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	564	568	569	227	282	248	284	412	426	418	240	447	296
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	281	280	276	104	111	103	124	192	185	182	103	197	112
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	135	134	129	72	86	78	81	107	95	96	75	100	80
FREE CARBON DIOXIDE	mg/L	1.4	1.2	1.2	2.3	0.7	2.7	1.4	0.5	1.6	1.6	0.7	1.3	0.7
pH	pH	8.29	8.37	8.35	7.80	8.38	7.77	8.08	8.61	8.08	8.09	8.35	8.18	8.34
SPECIFIC CONDUCTANCE	µS/cm	924	938	952	411	519	467	513	701	748	730	440	771	549
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.40	0.46	0.33	0.72	1.3	0.87	0.36	0.90	0.05	0.05	0.04	0.07	0.06
TEMPERATURE	°C	20	21	20	13	17	16	18	20	19	22	20	23	21
BROMIDE	mg/L	0.07	0.04	0.07	0.15	0.22	0.20	0.18	0.12	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.90	2.95	2.92	2.34	3.68	3.40	2.64	3.16	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.26	0.33	0.22	0.47	0.26
STATE PROJECT WATER	%	0	0	0	100	100	100	90	52	60	61	100	51	100