

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

August 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	8.1	8.0	7.5	13.1	11.8	13.1	10.0	8.6	7.1	7.4	12.8	9.3	10.5
CALCIUM	mg/L	70	69	67	24	18	23	29	44	59	55	24	42	17
MAGNESIUM	mg/L	24	24	25	11	10	11	13	18	23	22	11	17	10
SODIUM	mg/L	79	79	85	41	40	49	51	65	83	79	47	68	44
POTASSIUM	mg/L	4.2	4.2	4.4	2.3	2.4	2.7	3.1	3.6	4.0	3.9	2.3	3.5	2.3
CARBONATE	mg/L	0	1	2	0	0	0	0	1	0	0	0	2	1
BICARBONATE	mg/L	163	154	144	94	88	101	101	122	128	126	101	115	83
SULFATE	mg/L	214	217	226	44	30	40	66	127	193	178	47	121	29
CHLORIDE	mg/L	76	78	84	52	55	67	64	71	82	81	54	76	59
NITRATE	mg/L	1.2	1.0	0.7	2.5	1.3	0.2	1.7	0.4	0.9	0.9	2.5	0.6	2.5
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	<0.1	0.1	0.1	0.2	0.8	0.9	0.8	0.8	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	558	558	574	237	213	257	288	400	517	491	252	398	218
TOTAL HARDNESS AS CaCO ₃	mg/L	279	271	272	104	89	107	124	184	236	228	104	174	84
TOTAL ALKALINITY AS CaCO ₃	mg/L	134	128	122	77	72	83	83	102	105	103	83	98	70
FREE CARBON DIOXIDE	mg/L	3.4	1.2	0.9	4.7	1.1	3.4	3.3	0.9	1.8	1.7	0.9	0.8	0.6
pH	pH	7.90	8.34	8.45	7.52	8.13	7.69	7.71	8.35	8.07	8.10	8.28	8.41	8.37
SPECIFIC CONDUCTANCE	µS/cm	923	900	931	418	368	471	519	698	858	826	442	693	379
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.62	0.92	0.91	0.56	1.1	1.1	0.39	0.50	0.05	0.04	0.04	0.07	0.06
TEMPERATURE	°C	24	27	26	15	24	25	15	24	27	23	23	28	27
BROMIDE	mg/L	0.08	0.04	0.06	0.16	0.16	0.21	0.21	0.13	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.05	3.14	3.07	2.22	3.02	3.46	2.44	3.01	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.49	0.44	0.23	0.70	0.20
STATE PROJECT WATER	%	0	0	0	100	100	100	86	51	19	31	100	54	100