

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

June 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	7.3	7.6	7.2	12.5	11.5	12.1	11.2	8.6	9.2	9.0	12.3	8.6	11.5
CALCIUM	mg/L	71	71	69	23	22	23	27	49	47	48	23	49	23
MAGNESIUM	mg/L	24	24	25	11	11	11	13	19	18	19	11	19	11
SODIUM	mg/L	80	83	86	38	51	49	51	69	76	75	43	76	54
POTASSIUM	mg/L	4.2	4.3	4.5	2.3	2.6	2.7	3.2	3.8	3.6	3.8	2.2	3.7	2.5
CARBONATE	mg/L	0	2	2	0	0	0	0	0	0	0	1	0	0
BICARBONATE	mg/L	165	156	154	88	96	98	98	134	116	121	90	126	93
SULFATE	mg/L	219	217	226	43	43	42	69	142	152	150	47	156	47
CHLORIDE	mg/L	77	79	84	49	66	66	64	73	81	81	52	82	71
NITRATE	mg/L	1.4	1.2	1.1	1.9	2.2	0.2	1.5	0.8	1.8	1.8	1.9	1.1	3.2
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	567	567	582	225	257	255	289	432	447	449	239	459	270
TOTAL HARDNESS AS CaCO ₃	mg/L	283	281	280	103	105	107	124	207	196	200	102	203	101
TOTAL ALKALINITY AS CaCO ₃	mg/L	135	132	130	72	79	80	80	110	95	99	76	103	76
FREE CARBON DIOXIDE	mg/L	1.5	1.1	1.0	2.4	0.8	3.0	2.7	1.0	1.6	1.6	0.6	0.9	0.8
pH	pH	8.27	8.38	8.42	7.78	8.28	7.73	7.78	8.33	8.08	8.10	8.38	8.37	8.31
SPECIFIC CONDUCTANCE	µS/cm	937	941	950	383	482	479	518	758	769	769	432	783	498
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	1.8	0.44	0.33	0.37	0.92	0.95	0.32	0.37	0.05	0.05	0.04	0.06	0.06
TEMPERATURE	°C	22	25	23	14	20	21	16	22	22	22	21	25	23
BROMIDE	mg/L	0.07	0.06	0.08	0.15	0.20	0.20	0.18	0.13	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.95	2.90	2.91	2.30	3.34	3.56	2.40	3.05	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.33	0.38	0.27	0.72	0.22
STATE PROJECT WATER	%	0	0	0	100	100	100	93	42	49	50	100	43	100