

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

November 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	9.7	9.8	7.6	13.0	11.4	11.4	10.8	11.5	8.4	8.2	12.3	10.9	10.6
CALCIUM	mg/L	69	67	67	23	17	17	27	34	46	50	23	33	17
MAGNESIUM	mg/L	24	24	25	12	14	14	13	15	21	22	12	15	14
SODIUM	mg/L	81	79	84	50	67	68	51	59	84	85	54	63	73
POTASSIUM	mg/L	4.2	4.4	4.5	2.6	3.3	3.2	3.1	3.4	4.2	4.1	2.6	3.3	3.3
CARBONATE	mg/L	0	1	0	0	0	0	0	0	0	0	0	1	1
BICARBONATE	mg/L	161	155	151	96	92	90	99	112	110	123	100	106	90
SULFATE	mg/L	218	211	220	42	27	26	59	90	154	167	45	83	27
CHLORIDE	mg/L	77	78	84	67	110	111	69	71	100	96	69	78	109
NITRATE	mg/L	1.1	0.8	0.3	1.5	0.7	1.1	1.5	0.4	0.8	0.7	1.6	0.8	2.7
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	<0.1	<0.1	0.1	0.1	0.8	0.9	0.8	0.8	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	565	553	568	259	296	297	284	340	474	495	270	342	303
TOTAL HARDNESS AS CaCO ₃	mg/L	279	272	275	108	102	102	120	152	202	219	110	141	100
TOTAL ALKALINITY AS CaCO ₃	mg/L	132	129	124	79	75	74	81	92	90	101	82	89	76
FREE CARBON DIOXIDE	mg/L	1.7	1.1	1.2	1.9	1.5	1.7	3.9	1.8	1.5	1.6	1.0	0.8	0.5
pH	pH	8.21	8.37	8.31	7.92	8.01	7.94	7.62	8.01	8.09	8.10	8.24	8.35	8.47
SPECIFIC CONDUCTANCE	µS/cm	919	904	937	480	569	573	510	599	822	859	485	612	588
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.45	0.23	0.41	1.0	0.82	0.50	0.41	0.44	0.04	0.03	0.04	0.07	0.06
TEMPERATURE	°C	21	21	22	19	18	20	18	20	18	20	20	20	19
BROMIDE	mg/L	0.07	0.10	0.09	0.22	0.37	0.37	0.21	0.18	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.02	2.72	2.86	2.38	2.44	2.42	2.28	2.82	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.23	0.36	0.13	0.40	0.17
STATE PROJECT WATER	%	0	0	0	100	100	100	81	71	48	35	100	77	100