

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

December 2014

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	8.7	8.8	9.0	14.4	13.0	9.6	9.1	9.3	8.9	8.9	14.3
CALCIUM	mg/L	74	75	75	36	29	29	29	72	76	74	35	72	29
MAGNESIUM	mg/L	26	27	26	11	10	14	15	26	27	26	11	26	12
SODIUM	mg/L	95	93	94	74	80	72	61	91	99	99	87	98	79
POTASSIUM	mg/L	4.7	4.7	4.7	2.7	2.6	3.4	3.6	4.7	4.7	4.7	2.6	4.7	3.0
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	160	160	162	112	100	116	101	160	157	156	102	152	106
SULFATE	mg/L	237	235	235	78	72	56	69	230	245	247	111	236	67
CHLORIDE	mg/L	89	90	90	86	87	96	76	89	94	93	85	100	97
NITRATE	mg/L	1.1	1.1	1.0	2.9	2.4	0.3	<0.1	0.8	1.1	1.1	3.0	1.2	1.1
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.3	0.9	0.9	0.8	0.9	0.9
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	616	615	616	361	346	338	313	603	635	633	401	624	353
TOTAL HARDNESS AS CaCO ₃	mg/L	292	293	293	134	110	128	133	286	294	294	132	284	120
TOTAL ALKALINITY AS CaCO ₃	mg/L	131	131	133	92	82	95	83	131	129	128	84	125	87
FREE CARBON DIOXIDE	mg/L	1.3	1.3	1.4	6.8	1.4	2.3	0.7	1.4	2.2	2.1	1.3	2.1	1.2
pH	pH	8.30	8.31	8.29	7.44	8.06	7.93	8.39	8.29	8.08	8.10	8.11	8.08	8.16
SPECIFIC CONDUCTANCE	µS/cm	982	990	986	643	603	614	553	970	1020	1020	696	1010	643
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	1.8	0.64	2.1	5.6	0.56	2.1	0.26	0.39	0.04	0.04	0.04	0.06	0.06
TEMPERATURE	°C	15	16	17	15	16	16	17	18	17	20	17	18	16
BROMIDE	mg/L	0.08	0.06	0.08	0.30	0.32	0.33	0.24	0.08	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.20	3.11	3.10	2.18	2.73	3.80	2.83	3.17	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.54	0.59	0.12	0.51	0.08
STATE PROJECT WATER	%	0	0	0	100	100	100	100	0	0	0	100	0	100