

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

August 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	7.8	7.4	7.8	11.7	11.8	6.2	9.8	9.0	8.1	7.9	11.7
CALCIUM	mg/L	75	74	73	30	28	27	30	41	72	73	29	49	29
MAGNESIUM	mg/L	25	26	26	12	7	13	14	17	27	27	12	19	9
SODIUM	mg/L	89	87	90	65	69	68	55	64	96	96	70	76	76
POTASSIUM	mg/L	4.4	4.4	4.5	2.8	2.2	3.1	3.4	3.6	4.5	4.5	2.7	3.9	2.4
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	167	161	160	106	99	115	110	126	154	144	113	128	99
SULFATE	mg/L	223	220	221	58	65	50	63	107	240	242	59	141	71
CHLORIDE	mg/L	83	83	84	87	72	91	72	75	91	91	87	88	84
NITRATE	mg/L	1.2	1.0	0.8	3.0	1.9	0.1	0.1	0.3	0.8	0.8	3.1	0.4	2.3
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.2	0.1	0.1	0.2	0.9	0.9	0.8	0.8	0.9
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	592	584	587	323	307	316	302	380	617	615	332	451	336
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	292	285	284	125	102	124	132	173	284	286	123	202	105
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	137	132	131	87	81	94	90	103	126	118	93	105	81
FREE CARBON DIOXIDE	mg/L	2.3	1.1	1.6	4.9	1.2	0.7	5.0	3.0	2.3	2.0	1.2	1.8	0.9
pH	pH	8.09	8.40	8.23	7.56	8.14	8.42	7.56	7.85	8.05	8.08	8.20	8.07	8.25
SPECIFIC CONDUCTANCE	µS/cm	975	958	957	591	545	592	551	668	1000	1000	602	777	597
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.89	0.58	2.0	1.9	1.3	0.89	1.5	0.55	0.04	0.03	0.04	0.05	0.06
TEMPERATURE	°C	25	27	27	16	22	25	18	23	27	29	23	28	26
BROMIDE	mg/L	0.08	0.06	0.08	0.28	0.27	0.30	0.22	0.18	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.98	4.30	2.80	2.13	2.38	3.72	3.39	2.62	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.62	0.64	0.26	0.44	0.26
STATE PROJECT WATER	%	0	0	0	100	100	100	100	61	0	0	100	46	100