

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

October 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	8.0	8.1	8.4	13.7	12.7	7.0	9.9	9.3	8.7	8.7	12.9	9.2	8.7
CALCIUM	mg/L	76	75	74	36	28	28	32	63	74	74	36	65	28
MAGNESIUM	mg/L	26	26	27	12	10	14	14	23	26	27	12	24	13
SODIUM	mg/L	90	89	91	72	76	71	56	83	96	99	73	90	78
POTASSIUM	mg/L	4.7	4.7	4.7	2.7	2.7	3.2	3.4	4.4	4.7	4.8	2.6	4.5	3.1
CARBONATE	mg/L	0	0	2	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	163	162	157	110	105	117	115	151	155	150	115	150	110
SULFATE	mg/L	229	229	231	77	69	51	61	185	238	241	75	187	65
CHLORIDE	mg/L	85	87	88	87	87	95	71	84	92	92	86	93	97
NITRATE	mg/L	0.9	0.9	0.7	2.6	1.9	0.1	<0.1	0.5	0.7	0.7	2.7	0.7	0.8
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	0.8	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	601	601	606	358	340	328	305	528	618	623	358	549	349
TOTAL HARDNESS AS CaCO ₃	mg/L	292	289	290	140	112	126	136	252	294	292	136	264	122
TOTAL ALKALINITY AS CaCO ₃	mg/L	134	133	133	90	86	96	94	124	127	123	94	123	90
FREE CARBON DIOXIDE	mg/L	1.8	1.4	1.1	3.2	1.2	1.2	6.3	1.7	2.1	1.9	1.4	2.0	1.5
pH	pH	8.18	8.29	8.39	7.75	8.18	8.20	7.48	8.17	8.08	8.13	8.12	8.10	8.10
SPECIFIC CONDUCTANCE	µS/cm	964	961	961	629	593	596	549	874	1010	1000	631	913	623
COLOR	CU	4	2	2	3	6	5	4	2	1	1	1	1	1
TURBIDITY	NTU	0.82	0.32	2.7	2.0	0.71	1.2	2.9	0.42	0.05	0.04	0.04	0.05	0.06
TEMPERATURE	°C	25	26	26	20	22	25	17	27	25	27	23	26	24
BROMIDE	mg/L	0.08	0.06	0.08	0.30	0.30	0.31	0.22	0.12	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.20	3.10	2.98	1.90	2.74	3.54	2.48	2.97	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.63	0.69	0.27	0.61	0.14
STATE PROJECT WATER	%	0	0	0	100	100	100	100	23	0	0	100	17	100