

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

October 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	8.0	8.2	7.4	12.8	10.0	10.0	10.0	10.0	10.6	9.5	8.2	8.0	12.9	9.9	10.2
CALCIUM	mg/L	71	65	65	25	15	15	15	15	27	38	48	49	24	34	16
MAGNESIUM	mg/L	24	24	25	11	11	11	11	11	12	16	20	21	11	15	13
SODIUM	mg/L	81	83	85	47	49	47	47	47	51	58	82	80	53	65	67
POTASSIUM	mg/L	4.2	4.4	4.4	2.5	2.5	2.4	2.4	2.4	3.1	3.4	4.1	4.0	2.5	3.4	2.9
CARBONATE	mg/L	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1
BICARBONATE	mg/L	161	146	145	99	81	81	81	81	99	117	116	120	104	110	84
SULFATE	mg/L	219	215	223	49	19	19	19	19	61	102	156	163	50	96	27
CHLORIDE	mg/L	76	76	82	61	76	72	72	72	65	68	95	93	63	77	104
NITRATE	mg/L	1.1	0.7	0.3	2.4	0.4	0.5	0.5	0.5	1.3	0.4	0.4	0.4	2.5	0.5	1.8
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	<0.1	0.1	0.1	0.1	0.1	0.2	0.8	0.9	0.8	0.8	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	565	550	566	260	223	218	218	218	281	354	472	479	272	358	286
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	278	262	268	112	84	84	84	84	121	160	205	214	111	150	93
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	132	120	121	81	66	66	66	66	81	96	95	98	85	92	71
FREE CARBON DIOXIDE	mg/L	2.7	1.3	1.0	2.9	1.5	1.7	1.7	1.7	1.8	1.2	1.6	1.5	1.0	0.8	0.5
pH	pH	8.00	8.28	8.37	7.75	7.95	7.90	7.90	7.90	7.95	8.21	8.07	8.11	8.24	8.36	8.48
SPECIFIC CONDUCTANCE	µS/cm	910	900	936	470	434	428	428	428	506	631	818	825	490	628	540
COLOR	CU	6	2	2	7	7	7	7	7	5	4	1	1	2	1	1
TURBIDITY	NTU	0.56	0.23	0.54	0.73	1.1	0.73	0.73	0.73	0.30	0.75	0.05	0.03	0.04	0.06	0.05
TEMPERATURE	°C	24	27	26	20	23	26	26	26	18	23	23	20	23	24	24
BROMIDE	mg/L	0.07	0.05	0.06	0.20	0.25	0.23	0.23	0.23	0.19	0.15	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.00	3.16	3.20	2.48	2.62	2.59	2.59	2.59	2.54	2.82	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	--	--	0.32	0.35	0.22	0.50	0.19
STATE PROJECT WATER	%	0	0	0	100	100	100	100	100	76	61	40	36	100	66	100