

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

February 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	8.1	7.7	7.4	13.3	10.0	12.5	9.4	10.1	9.1	8.7	12.6	10.0	10.4
CALCIUM	mg/L	73	72	68	23	19	23	29	32	39	48	23	33	20
MAGNESIUM	mg/L	25	25	25	11	11	11	13	14	18	20	11	14	13
SODIUM	mg/L	85	87	86	38	45	46	52	51	70	76	41	58	58
POTASSIUM	mg/L	4.4	4.5	4.6	2.3	2.5	2.7	3.3	3.1	3.5	3.8	2.3	3.2	2.8
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	1
BICARBONATE	mg/L	166	163	151	88	90	95	96	105	106	117	90	105	89
SULFATE	mg/L	222	226	218	44	33	40	71	79	114	150	47	86	39
CHLORIDE	mg/L	84	86	86	45	62	62	63	61	80	81	48	70	79
NITRATE	mg/L	1.4	1.1	0.8	1.5	2.3	0.3	1.1	1.2	1.8	1.3	1.6	1.2	2.9
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	<0.1	0.1	0.1	0.2	0.9	0.9	0.8	0.8	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	586	591	572	222	230	245	290	304	389	448	232	329	271
TOTAL HARDNESS AS CaCO ₃	mg/L	291	292	277	104	97	105	127	137	172	207	104	146	104
TOTAL ALKALINITY AS CaCO ₃	mg/L	136	134	124	72	74	78	79	86	87	96	74	86	75
FREE CARBON DIOXIDE	mg/L	2.0	1.4	1.7	1.4	0.7	1.9	1.0	0.9	0.8	1.1	0.7	1.0	0.5
pH	pH	8.15	8.28	8.18	8.01	8.31	7.92	8.22	8.28	8.34	8.26	8.32	8.23	8.50
SPECIFIC CONDUCTANCE	µS/cm	956	963	934	373	404	448	526	534	691	762	385	587	500
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.69	0.68	0.42	0.61	0.97	1.2	0.28	0.41	0.05	0.04	0.04	0.05	0.05
TEMPERATURE	°C	11	12	15	13	9	13	13	14	12	18	16	16	12
BROMIDE	mg/L	0.07	0.03	0.06	0.14	0.19	0.20	0.17	0.15	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.94	3.06	2.92	2.52	2.98	3.54	2.94	2.76	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.32	0.46	0.12	0.23	0.21
STATE PROJECT WATER	%	0	0	0	100	100	100	72	74	59	43	100	73	100