

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

March 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	7.8	8.3	7.7	13.6	9.8	12.5	10.2	8.5	8.0	7.8	12.3	10.0	9.1
CALCIUM	mg/L	74	72	67	23	21	21	29	35	45	53	23	34	21
MAGNESIUM	mg/L	25	25	25	11	13	13	13	15	19	22	11	14	13
SODIUM	mg/L	86	87	88	39	60	47	51	56	79	81	41	61	63
POTASSIUM	mg/L	4.6	4.5	4.6	2.4	3.1	2.7	3.3	3.3	3.9	4.1	2.3	3.3	3.0
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	1
BICARBONATE	mg/L	166	163	154	88	95	95	98	110	118	124	92	105	92
SULFATE	mg/L	219	223	215	44	38	40	69	92	139	170	46	94	42
CHLORIDE	mg/L	81	85	87	48	86	63	62	65	91	90	50	73	90
NITRATE	mg/L	1.7	1.4	0.9	1.6	2.4	0.2	1.0	0.9	1.5	1.3	1.6	1.0	2.9
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	<0.1	0.1	0.1	0.2	0.8	0.9	0.8	0.9	0.6
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	582	588	572	227	281	247	288	331	446	492	234	344	292
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	292	286	276	104	110	104	128	153	196	224	100	146	108
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	136	134	126	72	78	78	80	90	97	102	75	86	77
FREE CARBON DIOXIDE	mg/L	1.4	1.3	1.7	1.3	0.9	1.7	2.6	0.9	1.6	1.5	0.7	1.2	0.5
pH	pH	8.31	8.31	8.18	8.06	8.25	7.98	7.79	8.30	8.09	8.13	8.33	8.18	8.50
SPECIFIC CONDUCTANCE	µS/cm	951	960	943	376	529	453	514	587	773	845	386	606	548
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.73	1.3	0.63	0.64	0.88	2.4	0.22	0.44	0.05	0.04	0.04	0.06	0.05
TEMPERATURE	°C	14	15	14	13	10	13	14	15	14	19	16	17	13
BROMIDE	mg/L	0.07	0.02	0.07	0.15	0.26	0.20	0.18	0.15	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.00	3.79	2.82	2.55	3.10	3.50	2.58	2.74	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.21	0.41	0.14	0.20	0.22
STATE PROJECT WATER	%	0	0	0	100	100	100	82	71	50	35	100	74	100