

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

May 2013

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	8.3	7.2	8.1	10.5	10.1	10.2	10.7	9.2	8.4	8.3	10.1	7.3	10.2
CALCIUM	mg/L	71	72	69	23	28	24	27	58	61	63	22	60	27
MAGNESIUM	mg/L	24	24	25	13	12	12	13	21	24	23	12	22	12
SODIUM	mg/L	79	81	84	53	56	56	52	73	79	82	57	81	61
POTASSIUM	mg/L	4.2	4.3	4.4	2.8	2.6	2.9	3.1	3.9	4.0	4.1	2.7	4.0	2.5
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	163	163	159	96	111	101	99	144	137	137	100	143	106
SULFATE	mg/L	212	221	221	40	55	46	62	169	188	200	44	188	62
CHLORIDE	mg/L	75	80	83	77	68	79	69	76	84	84	77	87	74
NITRATE	mg/L	1.5	1.5	1.0	2.3	3.5	1.0	1.4	0.9	1.5	1.5	2.3	1.2	3.7
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.3	0.9	0.9	0.8	0.8	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	557	573	575	270	291	282	288	483	519	535	278	523	306
TOTAL HARDNESS AS CaCO ₃	mg/L	280	281	277	114	118	112	121	231	250	258	111	244	119
TOTAL ALKALINITY AS CaCO ₃	mg/L	134	134	130	79	91	83	81	118	112	112	82	117	87
FREE CARBON DIOXIDE	mg/L	1.6	1.5	2.4	2.1	0.8	5.2	3.7	1.3	1.9	1.8	0.8	1.2	1.0
pH	pH	8.24	8.26	8.04	7.89	8.36	7.51	7.65	8.27	8.07	8.09	8.32	8.31	8.25
SPECIFIC CONDUCTANCE	µS/cm	909	927	936	503	522	526	520	824	864	893	521	873	554
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.33	0.68	2.9	0.58	0.73	1.2	0.20	0.42	0.05	0.04	0.04	0.06	0.06
TEMPERATURE	°C	19	21	18	12	17	16	17	20	18	21	19	23	21
BROMIDE	mg/L	0.07	0.04	0.06	0.24	0.22	0.25	0.20	0.11	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.93	2.85	2.84	2.30	3.64	3.37	2.22	2.87	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.41	0.50	0.22	0.74	0.23
STATE PROJECT WATER	%	0	0	0	100	100	100	100	29	21	21	100	22	100