

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

December 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	8.0	8.1	7.8	12.3	8.6	9.2	8.8	7.8	8.0	8.1	12.6	8.1	9.0
CALCIUM	mg/L	70	69	72	25	22	25	26	61	69	71	24	61	23
MAGNESIUM	mg/L	24	24	24	12	11	13	13	22	24	24	12	23	11
SODIUM	mg/L	81	83	82	60	69	60	55	76	85	85	62	81	74
POTASSIUM	mg/L	4.2	4.3	4.5	2.8	2.8	3.1	3.3	4.2	4.4	4.4	2.8	4.2	2.8
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	1
BICARBONATE	mg/L	160	160	159	102	95	110	101	149	146	143	104	143	93
SULFATE	mg/L	218	218	219	45	39	44	64	186	216	221	49	188	45
CHLORIDE	mg/L	79	80	81	81	100	85	72	80	87	84	82	88	104
NITRATE	mg/L	1.1	1.1	0.8	2.1	1.6	0.2	0.2	0.7	0.9	0.9	2.2	0.8	2.9
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	0.9	0.9
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	566	568	571	291	302	295	293	512	568	571	299	526	320
TOTAL HARDNESS AS CaCO ₃	mg/L	280	278	276	112	104	118	122	248	268	276	110	252	104
TOTAL ALKALINITY AS CaCO ₃	mg/L	131	131	130	84	78	90	83	122	120	117	85	117	78
FREE CARBON DIOXIDE	mg/L	2.1	1.6	1.7	2.0	2.1	2.2	1.1	1.9	2.0	1.9	0.9	2.2	0.5
pH	pH	8.11	8.22	8.19	7.94	7.88	7.92	8.18	8.12	8.08	8.10	8.29	8.04	8.49
SPECIFIC CONDUCTANCE	µS/cm	919	928	932	544	579	557	540	858	938	947	554	887	601
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.77	0.35	1.0	0.45	0.56	1.5	0.29	0.45	0.05	0.04	0.03	0.06	0.05
TEMPERATURE	°C	16	16	16	16	14	16	15	18	16	18	17	17	13
BROMIDE	mg/L	0.07	0.04	0.05	0.25	0.33	0.27	0.21	0.08	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.10	3.02	2.86	2.47	2.53	3.54	2.74	3.05	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.45	0.50	0.19	0.39	0.25
STATE PROJECT WATER	%	0	0	0	100	100	100	94	14	6	6	100	12	100