

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

October 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	8.1	8.1	8.0	13.2	9.4	9.4	7.9	6.9	8.0	8.4	10.4	6.1	9.0
CALCIUM	mg/L	70	69	66	26	19	19	23	57	61	61	26	59	19
MAGNESIUM	mg/L	24	24	25	12	12	12	14	21	23	23	12	21	12
SODIUM	mg/L	81	85	84	57	63	62	58	75	85	87	60	81	72
POTASSIUM	mg/L	4.4	4.6	4.5	2.8	3.0	2.9	3.4	4.2	4.3	4.4	2.7	4.3	3.0
CARBONATE	mg/L	0	0	0	0	0	0	10	0	0	0	0	0	0
BICARBONATE	mg/L	165	163	155	105	93	93	68	146	132	137	107	142	85
SULFATE	mg/L	216	211	216	48	29	29	66	172	194	205	51	183	45
CHLORIDE	mg/L	78	80	81	75	92	91	74	77	91	87	77	86	103
NITRATE	mg/L	0.8	0.9	0.4	2.3	0.2	0.5	<0.1	0.5	0.5	0.5	2.4	0.6	1.2
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.3	0.8	0.9	0.8	0.8	0.9
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	565	564	563	289	274	272	290	487	534	546	296	513	308
TOTAL HARDNESS AS CaCO ₃	mg/L	278	278	272	118	98	96	114	234	246	254	116	240	104
TOTAL ALKALINITY AS CaCO ₃	mg/L	135	134	127	86	76	76	72	120	108	112	88	116	70
FREE CARBON DIOXIDE	mg/L	2.0	1.5	1.5	2.2	0.7	0.9	0.1	1.5	1.9	1.8	1.1	1.4	0.6
pH	pH	8.14	8.25	8.23	7.90	8.37	8.22	9.06	8.22	8.06	8.09	8.22	8.22	8.41
SPECIFIC CONDUCTANCE	µS/cm	878	910	916	531	515	518	531	810	894	905	543	866	583
COLOR	CU	4	3	4	7	10	7	3	4	1	1	2	1	1
TURBIDITY	NTU	1.9	0.23	1.1	0.80	1.1	0.98	0.98	0.67	0.05	0.04	0.04	0.06	0.07
TEMPERATURE	°C	23	23	25	21	20	22	21	23	23	24	23	24	21
BROMIDE	mg/L	0.08	0.04	0.08	0.23	0.30	0.30	0.22	0.09	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.28	3.10	2.90	2.47	2.90	2.94	2.90	3.08	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.45	0.53	0.20	0.66	0.20
STATE PROJECT WATER	%	0	0	0	100	100	100	86	20	16	15	100	18	100