The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

February 2014

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	7.7	7.8	7.9	10.9	9.0	9.4	9.4	8.1	7.7	8.2	11.0	7.9	9.2
CALCIUM	mg/L	72	72	70	25	24	25	27	69	67	71	25	70	25
MAGNESIUM	mg/L	25	25	25	12	10	13	13	25	24	26	12	25	10
SODIUM	mg/L	84	85	84	63	70	62	55	83	87	90	66	90	76
POTASSIUM	mg/L	4.3	4.3	4.4	2.7	2.5	3.1	3.3	4.3	4.2	4.4	2.7	4.3	2.6
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	163	160	160	101	95	109	102	160	154	146	102	156	95
SULFATE	mg/L	222	219	220	48	48	46	62	218	218	229	52	209	57
CHLORIDE	mg/L	81	81	82	83	92	86	71	82	81	86	84	90	94
NITRATE	mg/L	1.3	1.3	1.0	2.4	2.8	0.3	0.4	1.1	1.0	1.0	2.5	1.1	3.5
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.3	0.9	1.0	0.9	0.9	0.9
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	579	576	575	298	306	299	292	571	568	590	307	576	326
TOTAL HARDNESS AS $CaCO_3$	mg/L	283	280	277	114	102	117	123	275	271	282	112	278	106
TOTAL ALKALINITY AS $CaCO_3$	mg/L	134	131	131	83	78	89	84	131	126	120	84	128	78
FREE CARBON DIOXIDE	mg/L	1.7	1.7	1.6	1.6	1.4	3.1	2.5	1.9	2.1	2.0	0.9	2.3	0.6
pH	pH	8.20	8.19	8.21	8.02	8.06	7.77	7.84	8.14	8.09	8.09	8.29	8.06	8.42
SPECIFIC CONDUCTANCE	µS/cm	961	963	962	562	582	578	550	953	943	985	576	971	613
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.68	0.38	0.70	0.61	0.78	0.69	0.19	0.45	0.05	0.04	0.04	0.06	0.05
TEMPERATURE	°C	12	12	15	13	10	13	14	13	15	16	16	17	13
BROMIDE	mg/L	0.07	0.04	0.05	0.27	0.31	0.27	0.20	0.05	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.00	2.98	3.10	2.30	2.38	3.52	2.45	2.94	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.49	0.49	0.18	0.49	0.20
STATE PROJECT WATER	%	0	0	0	100	100	100	97	0	0	0	100	0	100