

**Summary of Raw Water Quality\***  
**San Diego River System Reservoirs<sup>1</sup> 2006-2010**

Parameters	Units	DLR**/MDL	Drinking Water Standards <sup>2</sup>		No. of Samples	Raw Water Quality			
			MCL	SMCL		Min	Max	Mean	Median
<b>General Physical</b>									
Combined Radium-226 & Radium-228	pCi/L		5		15	nd	1.31	0.333	nd
Gross <i>Alpha</i>	pCi/L	3	15		18	nd	5.49	nd	nd
Gross <i>Beta</i>	pCi/L	4	50		18	nd	7.44	nd	nd
Strontium 90	pCi/L	2	8		3	nd	nd	nd	nd
Tritium	pCi/L	1000	20000		3	nd	nd	nd	nd
Uranium	pCi/L	1	20		15	1.5	6.59	2.9	2.29
<b>Inorganic Constituents</b>									
Ammonia-N	mg/L	0.031			57	nd	0.421	nd	nd
Bicarbonate	mg/L				137	47	269	150	150
Bromate	µg/L	5	10		3	nd	nd	nd	nd
Bromide	mg/L	0.1			130	nd	0.435	0.144	0.156
Calcium	mg/L				136	29.4	80.8	52.6	51.2
Carbonate	mg/L				136	nd	37.2	3.32	nd
Chloride	mg/L	0.5		500	131	28.4	124	73.4	74.1
Cyanide, Total	mg/L	0.1	0.15		30	nd	nd	nd	nd
Fluoride	mg/L	0.1	2		131	nd	2.82	0.234	0.215
MBAS (Detergents)	mg/L	0.05		0.5	15	nd	0.19	nd	nd
Nitrate (as NO <sub>3</sub> )	mg/L	2	45		179	nd	nd	nd	nd
Nitrite (as NO <sub>2</sub> )	mg/L	1.31	3.29		62	nd	nd	nd	nd
Perchlorate	µg/L	4	6		158	nd	nd	nd	nd
Phosphate, Ortho (as PO <sub>4</sub> )	mg/L	0.2			173	nd	0.61	nd	nd
Phosphorus	mg/L	0.078			258	nd	0.264	nd	nd
Potassium	mg/L	0.5			131	2.82	5.84	4.42	4.46
Silica	mg/L	0.5			130	3.36	26.3	13.1	12.5
Sulfate	mg/L	0.5		500	130	31.1	203	110	111
Total Nitrogen	mg/L	0.156			257	nd	5.08	0.408	0.375
<b>Organic Constituents Regulated</b>									
1,1,1-Trichloroethane (1,1,1-TCA)	µg/L	0.5	200		79	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	µg/L	0.5	1		79	nd	nd	nd	nd
1,1,2-Trichloroethane (1,1,2-TCA)	µg/L	0.5	5		79	nd	nd	nd	nd
1,1-Dichloroethane (1,1-DCA)	µg/L	0.5	5		79	nd	nd	nd	nd
1,1-Dichloroethylene (1,1-DCE)	µg/L	0.5	6		79	nd	nd	nd	nd
1,2,4-Trichlorobenzene	µg/L	0.5	5		79	nd	nd	nd	nd
1,2-Dichlorobenzene (o-DCB)	µg/L	0.5	600		79	nd	nd	nd	nd
1,2-Dichloroethane (1,2-DCA)	µg/L	0.5	0.5		79	nd	nd	nd	nd
1,2-Dichloropropane	µg/L	0.5	5		79	nd	nd	nd	nd
1,4-Dichlorobenzene (p-DCB)	µg/L	0.5	5		79	nd	nd	nd	nd
2,4,5-TP (SILVEX)	µg/L	1	50		79	nd	nd	nd	nd
2,4-D	µg/L	10	70		79	nd	nd	nd	nd
Alachlor (ALANEX)	µg/L	1	2		67	nd	nd	nd	nd
Atrazine (AATREX)	µg/L	0.5	1		68	nd	nd	nd	nd
Bentazon (BASAGRAN)	µg/L	2	18		79	nd	nd	nd	nd
Benzene	µg/L	0.5	1		79	nd	nd	nd	nd
Benzo(a)pyrene	µg/L	0.1	0.2		58	nd	nd	nd	nd
Bromodichloromethane	µg/L	1			79	nd	3.33	nd	nd
Bromoform	µg/L	1			79	nd	2.37	nd	nd
Carbofuran (FURADAN)	µg/L	5	18		79	nd	nd	nd	nd
Carbon Tetrachloride	µg/L	0.5	0.5		79	nd	nd	nd	nd
Chlordane	µg/L	0.1	0.1		35	nd	nd	nd	nd
Chloroform (Trichloromethane)	µg/L	1			79	nd	3.81	nd	nd
cis-1,2-Dichloroethylene (c-1,2-DCE)	µg/L	0.5	6		79	nd	nd	nd	nd
Dalapon	µg/L	10	200		3	nd	nd	nd	nd
Di(2-ethylhexyl) Adipate	µg/L	5	400		66	nd	nd	nd	nd
Dibromoacetic Acid (DBAA)	µg/L	1			3	nd	nd	nd	nd
Dibromochloromethane	µg/L	1			79	nd	4.08	nd	nd
Dibromochloropropane (DBCP)	µg/L	0.01	0.2		117	nd	nd	nd	nd
Dichloroacetic Acid (DCAA)	µg/L	1			3	nd	nd	nd	nd
Dichloromethane (Methylene Chloride)	µg/L	0.5	5		79	nd	nd	nd	nd
Diethylhexylphthalate (DEHP)	µg/L	3	4		59	nd	nd	nd	nd
Dinoseb (DNBP)	µg/L	2	7		79	nd	nd	nd	nd
Diquat	µg/L	4	20		3	nd	nd	nd	nd
Endothall	µg/L	45	100		3	nd	nd	nd	nd
Endrin	µg/L	0.1	2		112	nd	nd	nd	nd
Ethyl Benzene	µg/L	0.5	300		79	nd	nd	nd	nd
Ethylene Dibromide (EDB)	µg/L	0.02	0.05		124	nd	nd	nd	nd
Glyphosate	µg/L	25	700		76	nd	nd	nd	nd
Halacetic Acids (five) (HAA5) <sup>5</sup>	µg/L	1	60		3	nd	1.52	nd	nd
Heptachlor	µg/L	0.01	0.01		43	nd	nd	nd	nd
Heptachlor Epoxide	µg/L	0.01	0.01		47	nd	nd	nd	nd
Hexachlorobenzene	µg/L	0.5	1		119	nd	nd	nd	nd
Hexachlorocyclopentadiene	µg/L	1	50		96	nd	nd	nd	nd
Lindane (gamma-BHC)	µg/L	0.2	0.2		51	nd	nd	nd	nd
m,p-Xylene	µg/L	0.5			79	nd	0.779	nd	nd

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Parameters	Units	DLR**/MDL	Drinking Water Standards <sup>2</sup>		No. of Samples	Raw Water Quality				
			MCL	SMCL		Min	Max	Mean	Median	
Methoxychlor	µg/L	10	30		105	nd	nd	nd	nd	
Methyl- <i>tert</i> -butyl ether (MTBE)	µg/L	3	13	5	79	nd	nd	nd	nd	
Molinate (ORDRAM)	µg/L	2	20		48	nd	nd	nd	nd	
Monobromoacetic Acid (MBAA)	µg/L	1			3	nd	nd	nd	nd	
Monochloroacetic Acid (MCAA)	µg/L	2			3	nd	nd	nd	nd	
Monochlorobenzene (Chlorobenzene)	µg/L	0.5	70		79	nd	nd	nd	nd	
<i>o</i> -Xylene	µg/L	0.5			79	nd	nd	nd	nd	
Oxamyl (Vydate)	µg/L	20	50		79	nd	nd	nd	nd	
Pentachlorophenol (PCP)	µg/L	0.2	1		79	nd	nd	nd	nd	
Picloram	µg/L	1	500		79	nd	nd	nd	nd	
Polychlorinated Biphenyls, Total, as DCB	µg/L	0.5	0.5		28	nd	nd	nd	nd	
Simazine (PRINCEP)	µg/L	1	6		61	nd	nd	nd	nd	
Styrene	µg/L	0.5	100		79	nd	nd	nd	nd	
Tetrachloroethylene (PCE)	µg/L	0.5	5		79	nd	nd	nd	nd	
Thiobencarb (BOLERO)	µg/L	1	70	1	68	nd	nd	nd	nd	
Toluene	µg/L	0.5	150		79	nd	1.61	nd	nd	
Total Organic Carbon (TOC)	mg/L	0.3			177	3.22	9.91	5.17	5.25	
Total Trihalomethanes (TTHMs) <sup>6</sup>	µg/L	1	80		4	nd	7.39	1.85	nd	
Total Xylenes ( <i>m,p</i> , & <i>o</i> )	µg/L		1750		79	nd	0.779	nd	nd	
Toxaphene	µg/L	1	3		34	nd	nd	nd	nd	
<i>trans</i> -1,2-Dichloroethylene ( <i>t</i> -1,2-DCE)	µg/L	0.5	10		79	nd	nd	nd	nd	
Trichloroacetic Acid (TCAA)	µg/L	1			3	nd	1.52	nd	nd	
Trichloroethylene (TCE)	µg/L	0.5	5		79	nd	nd	nd	nd	
Trichlorofluoromethane (FREON 11)	µg/L	5	150		79	nd	nd	nd	nd	
Trichlorotrifluoroethane (FREON 113)	µg/L	10	1200		79	nd	nd	nd	nd	
Vinyl Chloride (VC)	µg/L	0.5	0.5		79	nd	nd	nd	nd	
<b>Organic Constituents Unregulated</b>										
1,1,1,2-Tetrachloroethane	µg/L	0.5			79	nd	nd	nd	nd	
1,1-Dichloropropene	µg/L	0.5			79	nd	nd	nd	nd	
1,2,3-Trichlorobenzene	µg/L	0.5			79	nd	nd	nd	nd	
1,2,4-Trimethylbenzene	µg/L	0.4			79	nd	nd	nd	nd	
1,3,5-Trimethylbenzene	µg/L	0.5			79	nd	nd	nd	nd	
1,3-Dichlorobenzene ( <i>m</i> -DCB)	µg/L	0.5			79	nd	nd	nd	nd	
1,3-Dichloropropane	µg/L	0.5			79	nd	nd	nd	nd	
2,2-Dichloropropane	µg/L	0.5			79	nd	nd	nd	nd	
2,4,5-T	µg/L	3			79	nd	nd	nd	nd	
2,4-DB	µg/L	3			79	nd	nd	nd	nd	
2-Chlorotoluene	µg/L	0.5			79	nd	nd	nd	nd	
2-Methylisoborneol (MIB)	ng/L	5			481	nd	50	5.76	nd	
3,5-Dichlorobenzoic acid	µg/L	3			79	nd	nd	nd	nd	
3-Hydroxycarbofuran	µg/L	3			79	nd	nd	nd	nd	
4-Chlorotoluene	µg/L	0.5			79	nd	nd	nd	nd	
Acenaphthylene	µg/L	5			40	nd	nd	nd	nd	
Acifluorfen	µg/L	3			79	nd	nd	nd	nd	
Aldicarb (TEMIK)	µg/L	3			79	nd	nd	nd	nd	
Aldicarb sulfone	µg/L	4			79	nd	nd	nd	nd	
Aldicarb sulfoxide	µg/L	3			79	nd	nd	nd	nd	
Aldrin	µg/L	0.075			49	nd	nd	nd	nd	
Anthracene	µg/L	5			66	nd	nd	nd	nd	
Baygon	µg/L	0.4			79	nd	nd	nd	nd	
Benzo (a) Anthracene	µg/L	10			67	nd	nd	nd	nd	
Benzo (b) Fluoranthene	µg/L	10			61	nd	nd	nd	nd	
Benzo (g,h,i) Perylene	µg/L	10			60	nd	nd	nd	nd	
Benzo (k) Fluoranthene	µg/L	10			61	nd	nd	nd	nd	
Benzyl Butyl Phthalate	µg/L	10			67	nd	nd	nd	nd	
Bromobenzene	µg/L	0.5			79	nd	nd	nd	nd	
Bromochloromethane	µg/L	0.5			79	nd	nd	nd	nd	
Bromomethane (Methyl Bromide)	µg/L	0.5			79	nd	nd	nd	nd	
Carbaryl (Sevin)	µg/L	5			79	nd	nd	nd	nd	
Chloramben	µg/L	3			79	nd	nd	nd	nd	
Chloroethane	µg/L	0.5			79	nd	nd	nd	nd	
Chloromethane (Methyl Chloride)	µg/L	0.5			79	nd	nd	nd	nd	
Chrysene	µg/L	5			67	nd	nd	nd	nd	
<i>cis</i> -1,3-Dichloropropene	µg/L	0.5			79	nd	nd	nd	nd	
Dibenzo (a,h) anthracene	µg/L	5			61	nd	nd	nd	nd	
Dibromomethane	µg/L	0.5			79	nd	nd	nd	nd	
Dicamba (BANVEL)	µg/L	1.5			79	nd	nd	nd	nd	
Dichlorodifluoromethane (Freon 12)	µg/L	0.5			79	nd	nd	nd	nd	
Dichloroprop	µg/L	3			79	nd	nd	nd	nd	
Dieldrin	µg/L	0.02			47	nd	nd	nd	nd	
Diethyl phthalate	µg/L	5			68	nd	nd	nd	nd	
Diisopropyl Ether (DIPE)	µg/L	3			79	nd	nd	nd	nd	
Dimethyl phthalate	µg/L	5			46	nd	nd	nd	nd	
<i>di-n</i> -Butylphthalate	µg/L	5			63	nd	nd	nd	nd	
Ethyl- <i>tert</i> -butyl ether (ETBE)	µg/L	3			79	nd	nd	nd	nd	

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			MCL	SMCL		Min	Max	Mean	Median
Fluorene	µg/L	5			67	nd	nd	nd	nd
Geosmin	ng/L	5			479	nd	50	nd	nd
Hexachlorobutadiene	µg/L	0.5			79	nd	nd	nd	nd
Indeno (1,2,3-cd) Pyrene	µg/L	10			61	nd	nd	nd	nd
Isopropylbenzene (Cumene)	µg/L	0.5			79	nd	nd	nd	nd
MCPA	µg/L	3			79	nd	nd	nd	nd
MCPP	µg/L	3			79	nd	nd	nd	nd
Methiocarb	µg/L	0.4			79	nd	nd	nd	nd
Methomyl	µg/L	2			79	nd	nd	nd	nd
Naphthalene	µg/L	0.5			126	nd	nd	nd	nd
<i>n</i> -Butylbenzene	µg/L	0.5			79	nd	nd	nd	nd
<i>n</i> -Propylbenzene	µg/L	0.5			79	nd	nd	nd	nd
Paraquat	µg/L	4			3	nd	nd	nd	nd
PCB 1016 / 1242	µg/L	0.5			18	nd	nd	nd	nd
PCB 1016 (as DCB)	µg/L	0.5			10	nd	nd	nd	nd
PCB-1221 (as DCB)	µg/L	0.5			28	nd	nd	nd	nd
PCB-1232 (as DCB)	µg/L	0.5			28	nd	nd	nd	nd
PCB-1242 (as DCB)	µg/L	0.5			10	nd	nd	nd	nd
PCB-1248 (as DCB)	µg/L	0.5			28	nd	nd	nd	nd
PCB-1254 (as DCB)	µg/L	0.5			28	nd	nd	nd	nd
PCB-1260 (as DCB)	µg/L	0.5			28	nd	nd	nd	nd
Phenanthrene	µg/L	5			68	nd	nd	nd	nd
<i>p</i> -Isopropyltoluene	µg/L	0.2			79	nd	nd	nd	nd
Propachlor	µg/L	0.5			112	nd	nd	nd	nd
Pyrene	µg/L	0.5			67	nd	nd	nd	nd
<i>sec</i> -Butylbenzene	µg/L	0.5			79	nd	nd	nd	nd
<i>tert</i> -Amyl Methyl Ether (TAME)	µg/L	3			79	nd	nd	nd	nd
<i>tert</i> -Butyl Alcohol (TBA)	µg/L	2			79	nd	nd	nd	nd
<i>tert</i> -Butylbenzene	µg/L	0.5			79	nd	nd	nd	nd
<i>trans</i> -1,3-Dichloropropene	µg/L	0.5			79	nd	nd	nd	nd
Trifluralin	µg/L	0.5			67	nd	nd	nd	nd

Notes:

\*The acceptance criteria in this table apply to finished, potable water, and are for reference only.

\*\*The State of California DLR values are used when available. Parameters without DLR values were reported at MDL levels.

(1) The sampling points summarized are: MUA-0, ECA-0, SUA-0, SVA-0.

(2) State MCL and MCLG values may be more stringent than federal standards for treated water.

(3) Based on the Langelier Index, a positive quantity indicates non-corrosive tendencies, a negative quantity indicates corrosive tendencies.

(4) Lead and Copper Rule Action Level.

nd: non-detect at State DLR or MDL if DLR not available