Water Quality at Selected Grab Sample* Locations

December 2008

						California Aqueduct					
Constituent	**Units**	**Detection Limit**	**Thermalito Afterbay at Outlet, TA001000**	**North Bay Aqueduct Barker Slough Pumping Plant, KG000000**	**Delta-Mendota Canal Upstream McCabe Road, DMC06716**	**Harvey Banks Delta Pumping Plant, KA000331**	**O'Neill Forebay Outlet (Check 13), KA007089**	**Kettleman City (Check 21), KA017226**	**Near Highway 119 (Check 29), KA024454**	**Tehachapi Afterbay (Check 41), KA030341**	**Devil Canyon Headworks, KA041134**
Alkalinity	mg/L as $CaCO_3$	1	50	91	80	92	92	83	71	73	80
Antimony	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/L	0.001	<0.001	0.002	0.003	0.002	0.002	0.003	0.007	0.005	0.005
Beryllium	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/L	0.1	<0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Bromide	mg/L	0.01	<0.01	0.04	0.54	0.54	0.46	0.40	0.37	0.37	0.33
Calcium	mg/L	1	10	16	20	26	26	21	32	32	26
Chloride	mg/L	1	1.0	16.0	135	127	121.0	99.0	81.0	82.0	76.0
Chromium	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0	0.0	0.0
Copper	mg/L	0.001	<0.001	0	0.002	0.002	0	0	0	0	0
Fluoride	mg/L	0.1	<0.1	NR	NR	NR	NR	NR	NR	NR	NR
Hardness	mg/L as $CaCO_3$	1	45.000	87.000	118	139	137.000	114.000	95.000	105.000	100.000
Iron	mg/L	0.005	0.0	0.0	0.026	0.017	0.0	0.0	<0.005	0.0	0.0
Lead	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	1	5.000	12.000	17	18	18.000	15.000	4.000	6.000	9.000
Manganese	mg/L	0.005	<0.005	0.013	<0.005	0.014	0.005	0.005	<0.005	<0.005	0.006
Nitrite + Nitrate	mg/L as N	0.01	0	1	NR	1	1	1	2	1	1
Organic Carbon, Dissolved	mg/L as C	0.5	NR	3.100	3	3	2.700	2.500	0.900	1.200	1.900
Organic Carbon, Total	mg/L as C	0.5	NR	3.30	3.1	3	2.80	2.50	1.40	1.20	1.90
Phosphate-Ortho	mg/L as P	0.01	0.01	0.08	NR	0.1	0.08	0.08	NR	0.02	0.05
Phosphorus-Total	mg/L	0.01	0.01	0.13	NR	0.13	0.08	0.08	0.02	0.02	0.06
Selenium	mg/L	0.001	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Sodium	mg/L	1	4	20	80	83	81	64	66	66	61
Specific Conductance	µS/cm	1	108	278	683	730	706	575	548	545	523
Sulfate	mg/L	1	2	18	36	59	59	38	56	57	48
Total Dissolved Solids	mg/L	1	61	159	382	402	384	319	309	315	308
Turbidity	N.T.U.	1	3	20	4	5	3	<1	2	2	1
Zinc	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/L = milligrams per liter µS/cm = microSiemens per centimeter N.T.U. = Nephelometric turbidity unit NR = No data recorded at this location.

*NOTE: A grab sample is a single sample chosen to represent conditions in a given matrix (usually natural water) at a specific location, depth, and time.

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