Water Quality at Selected Grab Sample* Locations

March 2009

						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	47	113	76	78	93	95	74	79	79
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	0.003	0.002	0.002	0.002	0.002	0.006	0.006	0.004
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	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2
Bromide	mg/L	0.01	<0.01	0.04	0.17	0.19	0.28	0.42	0.26	0.27	0.24
Calcium	mg/L	1	10	16	23	23	30	28	31	33	25
Chloride	mg/L	1	1	25	57	60	87	133	73	75	72
Chromium	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.002	0.001
Copper	mg/L	0.001	0.001	0.004	0.002	0.002	0.002	0.002	0.001	0.001	0.001
Fluoride	mg/L	0.1	<0.1	NR	NR	NR	NR	NR	0.1	NR	NR
Hardness	mg/L as $CaCO_3$	1	44	106	118	116	152	158	103	112	98
Iron	mg/L	0.005	0.006	0.303	0.057	0.068	0.041	<0.005	<0.005	<0.005	<0.005
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	16	15	14	19	21	6	8	8
Manganese	mg/L	0.005	<0.005	0.084	0.009	0.017	0.005	<0.005	<0.005	<0.005	<0.005
Nitrite + Nitrate	mg/L as N	0.01	0.01	0.10	NR	0.95	1.20	0.56	1.10	1.20	0.65
Organic Carbon, Dissolved	mg/L as C	0.5	NR	17.8	6.8	7.6	6.0	3.4	1.5	1.4	2.1
Organic Carbon, Total	mg/L as C	0.5	NR	19.2	6.9	7.9	6.2	3.6	1.6	1.4	2.2
Phosphate-Ortho	mg/L as P	0.01	<0.01	0.15	NR	0.07	0.08	0.02	NR	0.01	0.02
Phosphorus-Total	mg/L	0.01	0.02	0.33	NR	0.10	0.10	0.03	0.02	0.02	0.03
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	37	41	43	66	88	63	67	55
Specific Conductance	µS/cm	1	99	341	433	415	608	726	493	511	474
Sulfate	mg/L	1	2	21	38	40	68	61	56	68	44
Total Dissolved Solids	mg/L	1	61	203	251	252	352	408	297	315	270
Turbidity	N.T.U.	1	6	44	14	9	5	<1	2	3	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.