Water Quality at Selected Grab Sample* Locations

January 2013

						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 2nd Afterbay, KA041323**
Alkalinity	mg/L as $CaCO_3$	1	37	97	106	75	85	72	74	70	71
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	0.002	0.002	0.001	0.001	0.002	0.002	0.001
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	0.4	0.2	0.3	0.2	0.2	0.2	0.1
Bromide	mg/L	0.01	<0.01	0.05	0.29	0.19	0.22	0.24	0.32	0.31	0.29
Calcium	mg/L	1	8	15	37	25	29	22	24	23	21
Chloride	mg/L	1	1	52	101	66	78	74	91	99	86
Chromium	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/L	0.001	<0.001	0.003	0.002	0.002	0.002	0.001	0.001	0.001	0.001
Hardness	mg/L as $CaCO_3$	1	33	112	176	121	142	113	118	113	104
Iron	mg/L	0.005	0.005	0.136	0.031	0.063	0.041	0.034	0.018	0.011	<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	4	18	21	14	17	14	14	13	13
Manganese	mg/L	0.005	<0.005	0.042	0.019	0.026	0.015	<0.005	<0.005	<0.005	<0.005
Nitrite + Nitrate	mg/L as N	0.01	<0.01	0.17	2.11	1.52	1.45	1	1	1	0.54
Organic Carbon, Dissolved	mg/L as C	0.5	NR	12.4	6.3	6.4	6	4.4	3.2	2.9	2.2
Organic Carbon, Total	mg/L as C	0.5	NR	14	6.4	6.6	6.1	4.4	3.6	3	2.2
Phosphate-Ortho	mg/L as P	0.01	<0.01	0.34	0.19	0.09	0.09	0.07	NR	0.05	0.05
Phosphorus-Total	mg/L	0.01	0.01	0.52	0.28	0.11	0.16	0.09	0.09	0.07	0.08
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	3	52	89	50	66	56	65	68	60
Specific Conductance	µS/cm	1	82	456	735	475	559	474	532	562	500
Sulfate	mg/L	1	2	41	102	51	66	44	43	40	32
Total Dissolved Solids	mg/L	1	45	251	434	276	325	270	301	310	278
Turbidity	N.T.U.	1	2	38	10	7	7	2	2	1	<1
Zinc	mg/L	0.005	<0.005	<0.005	0.006	<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.