

TABLE 3  
 INORGANICS CONCENTRATIONS IN WATER  
 Panofche Energy Center  
 Fresno County, California

Well Identification	Lower Confined Aquifer		Upper Confined Aquifer		Semi-Confined Aquifer	Water Quality Limits For Constituents <sup>a</sup>					
	MW-1	MW-4 (Blind Duplicate of MW-1)	MW-2	MW-5 (Blind Duplicate of MW-2)		CDHS <sup>b</sup>	Secondary MCL <sup>e</sup>	Primary MCL	Secondary MCL	CA PHG <sup>f</sup>	Ag Water Quality Limits <sup>g</sup>
Sample Identification	MW-1	MW-1	MW-2	MW-2	MW-3	Primary MCL <sup>d</sup>	Secondary MCL <sup>e</sup>	Primary MCL	Secondary MCL	CA PHG <sup>f</sup>	Ag Water Quality Limits <sup>g</sup>
Constituent or Parameter	Units	10/25/2006	10/25/2006	10/25/2006	10/25/2006	10/27/2006					
Total Alkalinity as CaCO <sub>3</sub>	mg/L <sup>h</sup>	180	180	110	110	180	-	-	-	-	-
Bicarbonate Alkalinity as HCO <sub>3</sub>	mg/L	200	200	130	140	230	-	-	-	-	-
Carbonate Alkalinity as CO <sub>3</sub>	mg/L	< 20	< 20	< 20	< 20	< 20	-	-	-	-	-
Hydroxide Alkalinity as OH	mg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	-	-	-	-
Ammonia as N	mg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	-	-	-	-	-
Biochemical Oxygen Demand	mg/L	< 1.0	< 1.0	40	41	180	-	250	-	250	106
Chloride	mg/L	85	85	26	< 10	< 10	-	-	-	-	-
Chemical Oxygen Demand	mg/L	< 10	< 10	< 0.005	< 0.005	< 0.005	-	-	-	-	-
Cyanide (total)	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-	-	-
Specific Conductance (EC)	µS/cm	1,500	1,500	1,100	1,100	3,000	2	900	4	2	700
Fluoride	mg/L	0.60	0.68	0.56	0.59	0.71	-	-	-	-	1
Hardness	mg eq/L CaCO <sub>3</sub> /l	40	41	56	56	1,100	-	-	-	-	-
Methylene Blue Active Substances	mg/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	45	-	10	-	10
Nitrate as NO <sub>3</sub>	mg/L	< 6.0	< 6.0	< 6.0	< 6.0	27	-	-	-	-	-
Orthophosphate as P	mg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	-	-	-	-	-
pH	pH units	8.9	9.0	8.6	8.6	8.1	-	-	6.5 - 8.5	-	6.5 - 8.4
Phosphorus	mg/L	0.12	0.16	0.14	< 0.10	< 0.10	-	-	-	-	-
Sulfate as SO <sub>4</sub>	mg/L	440	440	380	400	1,500	-	250	-	250	-
Sulfide	mg/L	< 1.0 <sup>i</sup>	< 1.0 <sup>i</sup>	< 1.0 <sup>i</sup>	< 1.0 <sup>i</sup>	< 1.0	-	-	-	-	-
Total Dissolved Solids	mg/L	1,100	1,100	840	840	2,900	-	500	-	500	450
Total Organic Carbon	mg/L	1	< 1.0	< 1.0	1	< 1.0	-	-	-	-	-
Total Suspended Solids	mg/L	110	94	25	15	< 4.0	-	-	-	-	-
Turbidity	NTU	89 <sup>m</sup>	87 <sup>m</sup>	52 <sup>m</sup>	45 <sup>m</sup>	2.3	1 or 5	5	1 or 5	-	-

Note: Values shown in bold print exceed one or more water quality limits shown on right.  
<sup>a</sup> Water quality limits for detected constituents summarized from A Compilation of Water Quality Goals, August, 2003, Regional Water Quality Control Board, Central Valley Region  
<sup>b</sup> California Department of Health Services  
<sup>c</sup> U.S. Environmental Protection Agency  
<sup>d</sup> Primary Maximum Contaminant Level  
<sup>e</sup> Secondary Maximum Contaminant Level  
<sup>f</sup> California Office of Environmental Health Hazard Assessment Public Health Goal in Drinking Water  
<sup>g</sup> Agricultural Water Quality Limits based on Ayers, R.S., and D.W. Westcott. Water Quality for Agriculture, Food and Agriculture Organization of the United Nations - Irrigation and Drainage Paper No. 29, Rev. 1, Rome, 1985, as summarized in A Compilation of Water Quality Goals, August, 2003  
<sup>h</sup> mg/L = milligrams per liter  
<sup>i</sup> µS/cm = microsiemens per centimeter  
<sup>j</sup> mg eq/L CaCO<sub>3</sub> = milligrams equivalent calcium carbonate  
<sup>k</sup> Analyst noted that samples were orange in color and indicated possible matrix interference  
<sup>l</sup> NTU = Nephelometric Turbidity Units  
<sup>m</sup> Sample analyzed outside of U.S. Environmental Protection Agency recommended holding time