

**TABLE 6 – Additional Physical, Mineral, and Metal Characteristics**

2007 BY WATER TREATMENT PLANT										
ANALYTE	Miramar Treatment Plant			Alvarado Treatment Plant			Otay Treatment Plant			Units
	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	
Aggressive Index	11.8	12	12.4	11.9	12.2	12.5	11.7	12.2	12.6	----
Alkalinity - Total as CaCO <sub>3</sub>	98	105	116	98	113	122	103	119	131	mg/L
Aluminum	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	µg/L
Antimony	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	µg/L
Arsenic	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	µg/L
Barium	< 100	< 100	110	< 100	< 100	111	< 100	< 100	< 100	µg/L
Beryllium	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	µg/L
Bicarbonate (HCO <sub>3</sub> )	120	127	141	109	133	148	125	145	159	mg/L
Bromide	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.12	mg/L
Cadmium	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	µg/L
Calcium	33.2	35.6	38.8	32.2	36.3	39.1	37.0	40.4	43.7	mg/L
Carbonate (CO <sub>3</sub> )	0	0	0	0	2	19	0	0	0	mg/L
Chloride	82.9	88.9	97.0	80.5	90.7	97.6	92.4	100	109	mg/L
Chromium	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	µg/L
Color	nd	< 1	1.4	nd	< 1	2	nd	< 1	2	COLOR
Copper	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	µg/L
Cyanide	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	mg/L
Fluoride	0.17	0.22	0.26	0.16	0.22	0.26	0.19	0.26	0.28	mg/L
Hardness - Total	195	220	248	194	221	244	210	221	236	mg/L
Hardness - Total in Grains/Gal	11.4	12.9	14.5	11.3	12.9	14.3	12.3	12.9	13.8	Grains/Gal
Iron	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	µg/L
Langlier Index	-0.03	0.23	0.66	0.15	0.45	0.75	-0.11	0.41	0.85	----
Lead	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	µg/L
Magnesium	6.9	17.4	21.6	2.6	17.0	21.3	3.8	18.6	23.7	mg/L
Manganese	< 20	<20	<20	< 20	<20	<20	< 20	<20	<20	µg/L
Mercury	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	µg/L
Nickel	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	µg/L
Nitrate	< 2	< 2	2.16	< 2	< 2	2.14	< 2	< 2	2.10	mg/L
Nitrate as Nitrogen	<0.45	<0.45	0.49	<0.45	<0.45	0.49	<0.45	<0.45	0.49	mg/L
Ortho phosphates	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	mg/L
Perchlorate	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	µg/L
pH	7.6	7.9	8.3	7.8	8.1	8.5	7.5	8.1	8.3	pH
Potassium	3.5	4.0	4.2	3.5	4.0	4.5	4.1	4.4	4.8	mg/L
Silica	8.1	9.1	10.2	8.5	9.8	10.8	4.8	7.1	8.9	mg/L
Silver	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	µg/L
Sodium	72.1	79.7	90.2	70.2	81.2	89.3	81.9	85.3	90.5	mg/L
Specific Conductance	764	927	1070	833	944	1100	832	986	1330	µS/cm
Sulfate	145	167	203	140	165	199	126	155	202	mg/L
Total Dissolved Solids (TDS)	442	509	578	436	516	595	418	498	555	mg/L
Vanadium	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	µg/L
Zinc	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	µg/L

**Abbreviations:**

**mg/L:** Milligrams per liter or Parts per million (ppm)

**µg/L:** Micrograms per liter or Parts per billion (ppb)

**µS/cm:** Micro siemens per centimeter

**COLOR:** natural color units