CITY OF SANTA BARBARA - PUBLIC WORKS DEPARTMENT
WATER RESOURCES DIVISION LABORATORY
MONITORING AND REPORTING PROGRAM NO. 90-103

EL ESTERO WWTP RECLAIMED DISTRIBUTION WATER ANNUAL SUMMARY 2008

EPA METHODS	PARAMETER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MIN	MAX	AVG
600/8-	Total Coliform Bacteria,	<1.1	<1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	<1.1	<1.1	1.1	1.1
78-017	MPN/100 mL (7-Day Median)													242	242	242
310.1	Alkalinity (as CaCO3)	242	272	179	199	248	199	179	232	218	211	300	264	179	300	229
Calc.	Bicarbonate (HCO3)	295	332	218	243	303	243	218	283	266	257	366	322	218	366	279
215.2	Calcium (Ca)	91.8	95.3	84.1	98.5	97.7	104.9	90.5	86.9	88.1	88.9	101	100	84.1	104.9	94.0
130.2	Total Hardness (CaCO3)	419	406	355	420	420	433	402	374	378	376	452	472	355	472	409
375.4	Sulfate (SO4)	293	267	226	260	276	270	239	265	232	237	290	301	226	301	263
407A	Chloride (Cl)	257	249	186	58.1	250	27.9	168	162	142	58.6	188	195	27.9	257	162
352.1	Nitrate as Nitrogen (NO3-N)	3.36	2.48	5.24	1.20	4.12	0.24	1.38	0.69	0.92	0.42	1.79	2.81	0.24	5.24	2.05
354.1	Nitrite as Nitrogen (NO2-N)	0.83	1.33	<0.1	0.26	1.21	<0.1	<0.1	<0.1	<0.1	<0.1	1.63	0.39	<0.1	1.63	0.5
300	Fluoride (F)	0.40	0.42	0.37	0.33	0.41	0.32	0.37	0.32	0.26	0.26	0.29	0.42	0.26	0.42	0.35
300	Bromide (Br)	0.26	0.40	<0.1	<0.1	0.49	<0.10	0.62	0.37	0.15	<0.1	0.68	0.34	<0.1	0.68	0.3
350.3	Ammonia as Nitrogen	12.1	19.5	0.888	1.7	10.7	0.22	4.91	5.0	3.68	1.8	12.5	9.8	0.22	19.5	6.90
330.2.3	Chlorine Residual - Total*	3.7	3.82	4.38	3.91	4.43	3.71	3.06	2.96	2.49	2.69	3.01	4.32	2.49	4.43	3.54
160.2	Total Suspended Solids (TSS)*	1.58	1.5	1.3	1.17	1.24	1.19	1.19	1.22	2.	1.36	1.58	2.35	1.17	2.35	1.47
160.1	Total Dissolved Solids (TDS)	1123	1088	906	794	1008	720	892	926	941	766	1068	1040	720	1123	939
150.1	pH, Units	7.96	7.97	8.16	8.19	8.17	8.24	8.05	8.10	8.13	8.23	8.21	7.85	7.85	8.24	8.11
110.2	Color, apparent unfiltered	20	17	7	8	13	5	10	8	11	7	12	13	5	20	10.9
120.1	Conductivity (EC), umhos/cm	1869	1895	1443	1219	1337	860	1279	1342	1290	1264	1883	1860	860	1895	1462
180.1	Turbidity, NTUs	3.57	2.84	2.07	1.44	1.85	0.64	1.48	1.55	1.24	1.04	0.91	1.80	0.64	3.57	1.70
365.2	Phosphorous (P)	0.54	0.46	0.32	0.30	0.49	0.10	0.38	0.22	0.24	0.22	<1.0	0.40	0.40	<1.0	0.39
212.3	Boron (B)	0.50	0.52	0.36	0.43	0.62	0.50	0.44	0.39	0.48	0.41	0.62	0.60	0.36	0.62	0.49
273.1	Sodium (Na)	199	184	130	77.2	145	60.8	115	121.8	114	80.4	143	160	60.8	199	128
258.1	Potassium (K)	25.1	29.5	17.2	11.6	22.7	4.84	17.3	15.4	15.2	10.4	21.2	22.4	4.84	29.5	17.7
242.1	Magnesium (Mg)	46.2	42.0	32.4	34.4	40.2	39.2	41.2	39.6	40.4	35.4	44.2	49.2	32.4	49.2	40.4
Calc.	Sodium Absorption Ratio (SAR)	4.23	3.95	3.05	1.71	3.12	1.29	2.52	2.72	2.52	1.82	2.99	3.27	1.29	4.23	2.77
Calc.	Adjusted Sodium Absorption Ratio (SARa)	10.03	9.56	6.69	3.94	7.47	3.01	5.67	6.38	5.87	4.21	7.45	8.02	3.01	10.03	6.53
															7.73	6
206.2	Arsenic (As)	2.0	<0.2	<0.2	3.8	7.8	<1.0	<0.2	1.8	1.6	1.5	2.2	1.5	<0.2	7.8	2.0
213.1	Cadmium (Cd)	<0.2	<0.2	<0.2	<0.2	<1.0	<1.0	<0.2	<1.0	<0.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
218.1	Chromium (Cr)	1.8	16.2	14.7	2.0	19.4	<1.0	10.9	15.9	8.3	11.6	<1.0	1.4	<1.0	19.4	8.7
220.1	Copper (Cu)	5.5	6.3	4.1	4.7	3.0	2.0	2.6	<1.0	<0.2	3.1	3.5	3.4	<0.2	6.3	3.3
236.1	Iron (Fe)	290	0.120	78	46	91	39	94	73	106	77	100	85	0.120	290	89.9
239.2	Lead (Pb)	<0.2	<0.2	<0.2	<0.2	<1.0	<1.0	<0.2	<1.0	<0.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
245.1	Mercury (Hg)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
246.2	Molybdenum (Mo)	10.1	11.0	6.1	5.7	8.1	5.2	8.2	6.6	5.8	6.6	7.9	7.3	5.2	11.0	7.4
249.1	Nickel (Ni)	6.5	6.5	5.3	5.1	6.2	3.1	5.0	4.1	3.0	3.7	3.8	4.5	3.0	6.5	4.7
270.2	Selenium (Se)	3.8	3.9	3.3	12.9	<1.0	<1.0	2.5	2.1	2.2	1.1	1.6	<1.0	<1.0	12.9	3.0
272.1	Silver (Ag)	<0.2	4.1	1.3	<0.2	1.0	14.4	3.6	<1.0	15.7	<1.0	2.6	1.5	<1.0	15.7	3.9
289.1	Zinc (Zn)	31.8	26.5	20.8	14.6	21.8	14.0	12.6	8.8	1.6	12.6	18.8	31.3	1.6	31.8	17.9

* Monthly Average
All units are in mg/L unless otherwise indicated.
All Inorganic Trace Metals are in µg/L