

City of Petaluma
Effluent and Receiving Water Hardness Data

Raw Hardness/Salinity Data (1)						
No.	Date	Station	Hardness	salinity	TDS	Predicted Salinity using TDS
1	2/10/1999	C1	80		188	0.0
2	2/10/1999	C2B	86		188	0.0
3	2/10/1999	CR	83		190	0.0
4	2/10/1999	C2A	80.4		196	0.0
5	2/9/1998	C2A	112		204	0.0
6	2/9/1998	C2B	112		209	0.0
7	2/9/1998	C1	110		213	0.0
8	2/9/1998	CR	110		216	0.0
9	4/2/1996	C2A	140		291	0.1
10	4/2/1996	C1	200		294	0.1
11	4/2/1996	C2B	160		304	0.1
12	4/2/1996	CR	160		305	0.1
13	Apr-99	C1	138		373	0.1
14	4/4/1995	EFF	160		374	0.1
15	3/9/1998	EFF	170		376	0.1
16	Apr-99	C2A	143		378	0.2
17	Apr-99	C2B	174		393	0.2
18	2/7/1995	EFF	170		396	0.2
19	1/6/1997	EFF	154		399	0.2
20	2/9/1998	EFF	170		399	0.2
21	2/4/1997	EFF	158		410	0.2
22	Apr-99	CR	142		420	0.2
23	2/12/1996	EFF	180		421	0.2
24	3/15/1999	EFF	164		423	0.2
25	3/15/2000	EFF	156	<1	439	0.2
26	1/2/1996	EFF	180		445	0.2
27	3/5/1996	EFF	190		449	0.2
28	1/17/1995	C1	180		461	0.2
29	1/17/1995	C2B	160		463	0.2
30	1/17/1995	EFF	180		463	0.2
31	1/17/1995	C2A	160		470	0.2
32	3/6/2001	EFF	156	0.4	477	0.2
33	4/2/1996	EFF	240		477	0.2
34	Apr-99	EFF	178		487	0.3
35	12/18/1996	EFF	162		492	0.3
36	3/7/1995	EFF	186		495	0.3
37	1/17/1995	CR	180		504	0.3
38	12/12/2001	EFF	154.5	0.4	510	0.3
39	12/10/1997	EFF	166		510	0.3
40	2/10/1999	EFF	166		510	0.3
41	2/16/2000	EFF	154	0.5	521	0.3
42	4/8/1998	EFF	174	0.02	522	0.3
43	3/4/1997	EFF	240		528	0.3
44	1/7/1998	EFF	200		536	0.3
45	3/5/1996	C2A	160		541	0.3
46	12/2/1998	EFF	175		541	0.3
47	12/6/1994	EFF	180		547	0.3
48	1/12/1999	EFF	189		547	0.3
49	4/17/2001	EFF	182	0.4	550	0.3
50	4/2/1997	EFF	240		552	0.3
51	3/5/1996	C1	180		553	0.3
52	3/5/1996	CR	160		555	0.3
53	Feb-01	EFF	178	0.4	555	0.3
54	11/4/1998	EFF	196		558	0.3
55	3/5/1996	C2B	180		559	0.3
56	11/8/1999	EFF	163		562	0.3
57	4/12/2000	EFF	250	<1.0	565	0.3
58	3/1/1994	EFF	170		568	0.3
59	2/12/1996	C1	220		568	0.3
60	May-00	EFF	192	<1.0	573	0.3
61	11/8/1994	EFF	170		575	0.3
62	1/9/2001	EFF	158	<1.0	576	0.3
63	2/16/2000	C2A	134	0	577	0.3
64	1/6/1997	C1	180		577	0.3
65	11/12/1997	EFF	200		579	0.3
66	11/7/2000	EFF	176		582	0.3
67	12/8/1999	EFF	170	<1	583	0.3
68	4/5/1994	EFF	200		583	0.3
69	2/12/1996	C2A	240		583	0.3
70	1/6/1997	CR	220		588	0.4
71	2/16/2000	CR	138	0	589	0.4
72	2/16/2000	C2B	136	0	590	0.4

Raw Hardness/Salinit Data (2)						
No.	Date	Station	Hardness	salinity	TDS	Predicted Salinity using TDS
73	2/16/00	C1	144	0	593	0.4
74	1/6/97	C2A	200		598	0.4
75	2/12/96	C2B	240		599	0.4
76	11/6/96	EFF	160		600	0.4
77	1/6/97	C2B	220		608	0.4
78	1/5/00	EFF	168	<1.0	610	0.4
79	1/4/94	EFF	190		611	0.4
80	2/12/96	CR	220		623	0.4
81	12/6/00	EFF	192		626	0.4
82	11/8/01	EFF	174	0.4	640	0.4
83	2/2/94	EFF	192		654	0.4
84	1/1/02	C2A	158	0.5	660	0.4
85	2/7/95	C2A	204		668	0.4
86	2/7/95	C2B	206		673	0.4
87	2/7/95	C1	200		674	0.4
88	1/1/02	C1	161	0.5	680	0.4
89	2/7/95	CR	206		682	0.4
90	1/1/02	C2B	156	0.5	690	0.4
91	1/1/02	CR	158	0.6	710	0.5
92	4/8/98	C2A	200	0.8	722	0.5
93	4/8/98	C1	200	0.8	730	0.5
94	4/8/98	C2B	204		735	0.5
95	3/15/00	C1	192	0.5	758	0.5
96	3/15/00	C2A	186	0.5	773	0.5
97	4/8/98	CR	212	1	779	0.5
98	3/15/00	C2B	194	0.5	783	0.5
99	4/4/95	C1	240		797	0.6
100	3/15/99	C2A	216		803	0.6
101	3/15/00	CR	196	0.5	829	0.6
102	4/4/95	C2A	240		834	0.6
103	3/15/99	C2B	220		837	0.6
104	4/4/95	C2B	280		847	0.6
105	4/4/95	CR	260		848	0.6
106	3/15/99	C1	228		857	0.6
107	2/4/97	C2B	280		864	0.6
108	3/7/95	C2A	300		871	0.6
109	2/4/97	C1	360		874	0.6
110	2/4/97	CR	260		892	0.6
111	3/1/94	C1	300		899	0.6
112	3/9/98	C2B	280		900	0.6
113	3/7/95	C2B	280		904	0.7
114	2/4/97	C2A	280		907	0.7
115	3/7/95	C1	300		909	0.7
116	3/15/99	CR	244		916	0.7
117	3/6/01	C2A	196	0.8	917	0.7
118	3/7/95	CR	260		921	0.7
119	3/1/94	C2A	260		943	0.7
120	3/9/98	CR	260		952	0.7
121	3/9/98	C2A	280		952	0.7
122	3/6/01	C2B	198	0.8	955	0.7
123	3/9/98	C1	300		955	0.7
124	3/6/01	C1	200	0.8	962	0.7
125	3/1/94	C2B	280		981	0.7
126	3/6/01	CR	200	0.8	994	0.7
127	3/1/94	CR	280		1062	0.8
128	1/1/03	C2A	277	0.8	1200	0.9
129	1/1/03	C1	283	0.8	1200	0.9
130	1/1/03	C2B	284	0.8	1300	1.0
131	1/1/03	CR	314	0.9	1300	1.0
132	3/4/97	C1	400		1726	1.4
133	3/4/97	C2B	400		1726	1.4
134	3/4/97	CR	400		1743	1.5
135	3/4/97	C2A	420		1760	1.5
136	2/1/03	C1	540	2.5	2800	2.5
137	2/1/03	C2A	580	2.5	3000	2.7
138	2/1/03	C2B	600	2.7	3100	2.8
139	12/12/01	C2A	660	2.9	3100	2.8
140	2/1/03	CR	620	2.9	3200	2.9
141	12/12/01	C2B	680	3.1	3300	2.9
142	2/1/02	C2A	680	3.3	3300	2.9
143	2/1/02	C1	700	3.3	3300	2.9
144	12/12/01	C1	780	3	3300	2.9

Raw Hardness/Salinit Data (3)						
No.	Date	Station	Hardness	salinity	TDS	Predicted Salinity using TDS
145	2/1/02	C2B	700	3.3	3500	3.1
146	3/1/02	C2A	720	3.4	3500	3.1
147	12/12/01	CR	720	3.5	3600	3.2
148	2/1/02	CR	720	3.6	3600	3.2
149	3/1/03	C2A	720	4.6	3600	3.2
150	4/2/97	C2A	760		3710	3.3
151	4/2/97	C2B	760		3754	3.4
152	4/2/97	C1	800		3793	3.4
153	3/1/02	C1	800	3.6	3800	3.4
154	4/2/97	CR	780		3888	3.5
155	3/1/02	CR	820	4.4	4000	3.6
156	3/1/02	C2B	780	4	4100	3.7
157	3/1/03	C2B	750	4.4	4400	4.0
158	3/1/03	CR	840	4.4	4400	4.0
159	4/12/00	C2A	900	3	4467	4.1
160	4/12/00	C1	830	3.7	4478	4.1
161	3/1/03	C1	860	4.8	4500	4.1
162	4/12/00	CR	940	4	4751	4.3
163	4/12/00	C2B	900	4.2	4768	4.4
164	12/96	C1	900		4785	4.4
165	12/96	C2B	920		4824	4.4
166	12/96	C2A	900		4829	4.4
167	12/96	CR	960		4952	4.5
168	1/7/98	C2A	1100		5163	4.7
169	5/1/03	C2A	1160	4.9	5300	4.9
170	2/2/94	C2A	1180		5319	4.9
171	5/1/03	C1	1080	5.6	5400	5.0
172	5/1/03	C2B	1120	5.8	5400	5.0
173	2/2/94	C2B	1200		5454	5.0
174	2/2/94	C1	1160		5681	5.2
175	2/2/94	CR	1180		5692	5.2
176	5/1/03	CR	1160	6.3	6000	5.5
177	1/7/98	C1	1200		6021	5.6
178	12/18/96	C1	1140		6099	5.6
179	12/18/96	C2A	1160		6177	5.7
180	1/7/98	CR	1240		6417	5.9
181	1/7/98	C2B	1260		6472	6.0
182	12/18/96	C2B	1220		6656	6.2
183	4/1/02	C2B	1340	6.9	6900	6.4
184	12/18/96	CR	1280		6907	6.4
185	4/1/02	C1	1280	7	7000	6.5
186	4/1/02	C2A	1300	7.3	7100	6.6
187	4/1/03	C2A	1500	7.7	7100	6.6
188	4/5/94	C2A	1440		7303	6.8
189	12/6/94	C1	1280		7324	6.8
190	4/5/94	C1	1460		7347	6.8
191	4/1/03	C1	1480	7.6	7500	7.0
192	4/1/03	C2B	1580	7.6	7600	7.1
193	12/6/94	C2B	1520		7689	7.1
194	4/1/03	CR	1500	8	7700	7.2
195	4/1/02	CR	1380	7.6	7800	7.3
196	12/6/94	C2A	1520		7863	7.3
197	12/6/94	CR	1520		7955	7.4
198	1/12/99	C1	1600		7965	7.4
199	5/1/00	C2B	1560	7.4	8021	7.5
200	1/12/99	C2A	1600		8021	7.5
201	4/17/01	C2B	1630	8.2	8201	7.6
202	4/17/01	C1	1460	8.3	8077	7.5
203	4/5/94	C2B	1500		8317	7.7
204	1/12/99	C2A	1640		8355	7.8
205	1/12/99	CR	1660		8355	7.8
206	5/1/00	CR	1660	7.6	8522	7.9
207	5/1/00	C1	1680	7.7	8522	7.9
208	5/1/00	C2A	1680	7.6	8578	8.0
209	4/5/94	CR	1560		8693	8.1
210	4/17/01	CR	1660	9.2	8845	8.3
211	4/17/01	C2B	1580	9	8890	8.3
212	2/1/01	C2A	1820	9	8957	8.4
213	2/1/01	C1	1820	9.4	9358	8.7
214	2/1/01	C2B	1880	9.5	9358	8.7
215	2/1/01	CR	1860	9.8	9686	9.1
216	12/2/98	C2A	1960		10249	9.6