

	A	B	C	D	E	F
1	Contaminant	Units	Marine Health Max Limit	Marine Health Avg Limit	Effect	Source
2	WQ PARAMETER					
3	Calcium	mg/L	-	-	-	-
4	Magnesium	mg/L	-	-	-	-
5	Bicarbonate	mg/L as CaCO3	-	20-200	-	Typical Range
6	Total alkalinity	mg/L	-	20-200	-	Typical Range
7	SOLIDS					
8	Total dissolved solids	mg/L	2000	-	Total dissolved and suspended solids refer	LA Basin Plan (Malibu Creek Watershed)
9	Total suspended solids	mg/L	-	-	to the combined amount of organic and	-
10	NUTRIENTS					
11	Total organic carbon	mg/L	-	-	Cause or contribute to objectionable aquatic algal blooms or degrade indigenous biota	-
12	Nitrate	mg/L	10	-		LA Basin Plan
13	Nitrate + Nitrite	mg/L	10	-		LA Basin Plan
14	Sulfate	mg/L	500	-		LA Basin Plan (Malibu Creek Watershed)
15	Ammonia	mg/L	2.4	0.6		CA Ocean Plan
16	Phosphorus, Total as P	mg/L	-	-		-
17	Total N	mg/L	10	-		LA Basin Plan (Malibu Creek Watershed)
18	METALS					
19	Aluminum	ug/L	-	-	can disrupt vital biological processes, damage cells, and impair reproductive and immune functions for marine animals.	-
20	Aluminum-dissolved	ug/L	-	-		-
21	Antimony	ug/L	30	-		Hawaii Surface Water Action Level - Marine Habitats
22	Antimony-dissolved	ug/L	-	-		-
23	Arsenic	ug/L	32	8		Ocean Plan
24	Arsenic-dissolved	ug/L	-	-		-
25	Beryllium	ug/L	0.038	-		Hawaii Surface Water Action Level - Marine Habitats
26	Beryllium-dissolved	ug/L	-	-		-
27	Cadmium	ug/L	4	1		Ocean Plan
28	Cadmium-dissolved	ug/L	3.976	0.994		Ocean Plan
29	Chromium	ug/L	8	2		Ocean Plan
30	Chromium-dissolved	ug/L	7.994	1.986		Ocean Plan
31	Copper	ug/L	12	3		Ocean Plan
32	Copper-dissolved	ug/L	9.96	2.49		Ocean Plan
33	Iron	ug/L	-	-		-
34	Iron-dissolved	ug/L	-	-		-
35	Lead	ug/L	8	2		Ocean Plan
36	Lead-dissolved	ug/L	7.608	1.902		Ocean Plan
37	Manganese	ug/L	-	-		-
38	Manganese-dissolved	ug/L	-	-		-
39	Mercury	ug/L	0.16	0.04	Ocean Plan	
40	Mercury-dissolved	ug/L	0.136	0.034	Ocean Plan	
41	Molybdenum	ug/L	370	-	Hawaii Surface Water Action Level - Marine Habitats	
42	Molybdenum-dissolved	ug/L	-	-	-	
43	Nickel	ug/L	20	5	Ocean Plan	
44	Nickel-dissolved	ug/L	19.8	4.95	Ocean Plan	
45	Selenium	ug/L	60	15	Ocean Plan	
46	Selenium-dissolved	ug/L	59.88	14.97	Ocean Plan	
47	Silver	ug/L	0.7	2.8	Ocean Plan	
48	Silver-dissolved	ug/L	-	-	-	

	A	B	C	D	E	F
49	Thallium	ug/L	12	-		Hawaii Surface Water Action Level - Marine Habitats
50	Thallium-dissolved	ug/L	-	-		-
51	Tin	ug/L	-	-		-
52	Tin-dissolved	ug/L	-	-		-
53	Vanadium	ug/L	81	-		Hawaii Surface Water Action Level - Marine Habitats
54	Vanadium-dissolved	ug/L	-	-		-
55	Zinc	ug/L	80	20		Ocean Plan
56	Zinc-dissolved	ug/L	75.68	18.92		Ocean Plan
57	PAH					
58	Naphthalene	ng/L	12000	-	Some PAHs are carcinogenic; others are noncarcinogenic but can still bioaccumulate, and disrupt reproduction and immune function	Hawaii Surface Water Action Level - Marine Habitats
59	Phenanthrene	ng/L	4600	-		Hawaii Surface Water Action Level - Marine Habitats
60	Acenaphthene	ng/L	20000	-		Hawaii Surface Water Action Level - Marine Habitats
61	Anthracene	ng/L	730	-		-
62	Fluoranthene	ng/L	7100	-		Hawaii Surface Water Action Level - Marine Habitats
63	Fluorene	ng/L	3900	-		Hawaii Surface Water Action Level - Marine Habitats
64	Pyrene	ng/L	10000	-		-
65	1-Methylnaphthalene	ng/L	-	-		-
66	1-Methylphenanthrene	ng/L	-	-		-
67	2,3,5-Trimethylnaphthalene	ng/L	-	-		-
68	2,6-Dimethylnaphthalene	ng/L	-	-		-
69	2-Methylnaphthalene	ng/L	-	-		-
70	Acenaphthylene	ng/L	-	-		-
71	Acenaphthylene	ng/L	-	-		-
72	Benzo[a]anthracene	ng/L	-	-		-
73	Benzo[a]pyrene	ng/L	-	-		-
74	Benzo[b]fluoranthene	ng/L	-	-		-
75	Benzo[e]pyrene	ng/L	-	-		-
76	Benzo[g,h,i]perylene	ng/L	-	-		-
77	Benzo[k]fluoranthene	ng/L	-	-		-
78	Biphenyl	ng/L	-	-	-	
79	Chrysene	ng/L	-	-	-	
80	Dibenz[a,h]anthracene	ng/L	-	-	-	
81	Dibenzothiophene	ng/L	-	-	-	
82	Indeno[1,2,3-cd]pyrene	ng/L	-	-	-	
83	Naphthalene	ng/L	-	-	-	
84	Perylene	ng/L	-	-	-	
85	Phenanthrene	ng/L	-	-	-	
86	PCB					
87	PCB 003	ng/L	-	30		National Water Quality Criteria Aquatic Life
88	PCB 008	ng/L	-	30		National Water Quality Criteria Aquatic Life
89	PCB 018	ng/L	-	30		National Water Quality Criteria Aquatic Life
90	PCB 028	ng/L	-	30		National Water Quality Criteria Aquatic Life
91	PCB 031	ng/L	-	30		National Water Quality Criteria Aquatic Life
92	PCB 033	ng/L	-	30		National Water Quality Criteria Aquatic Life
93	PCB 037	ng/L	-	30		National Water Quality Criteria Aquatic Life
94	PCB 044	ng/L	-	30		National Water Quality Criteria Aquatic Life
95	PCB 049	ng/L	-	30		National Water Quality Criteria Aquatic Life

	A	B	C	D	E	F
96	PCB 052	ng/L	-	30	Bioaccumulation leading to reproductive issues, immune supression, growth and developmental impacts, egshell thinning	National Water Quality Criteria Aquatic Life
97	PCB 056/60	ng/L	-	30		National Water Quality Criteria Aquatic Life
98	PCB 066	ng/L	-	30		National Water Quality Criteria Aquatic Life
99	PCB 070	ng/L	-	30		National Water Quality Criteria Aquatic Life
100	PCB 074	ng/L	-	30		National Water Quality Criteria Aquatic Life
101	PCB 077	ng/L	-	30		National Water Quality Criteria Aquatic Life
102	PCB 081	ng/L	-	30		National Water Quality Criteria Aquatic Life
103	PCB 087	ng/L	-	30		National Water Quality Criteria Aquatic Life
104	PCB 095	ng/L	-	30		National Water Quality Criteria Aquatic Life
105	PCB 097	ng/L	-	30		National Water Quality Criteria Aquatic Life
106	PCB 099	ng/L	-	30		National Water Quality Criteria Aquatic Life
107	PCB 101	ng/L	-	30		National Water Quality Criteria Aquatic Life
108	PCB 105	ng/L	-	30		National Water Quality Criteria Aquatic Life
109	PCB 110	ng/L	-	30		National Water Quality Criteria Aquatic Life
110	PCB 114	ng/L	-	30		National Water Quality Criteria Aquatic Life
111	PCB 118	ng/L	-	30		National Water Quality Criteria Aquatic Life
112	PCB 119	ng/L	-	30		National Water Quality Criteria Aquatic Life
113	PCB 123	ng/L	-	30		National Water Quality Criteria Aquatic Life
114	PCB 126	ng/L	-	30		National Water Quality Criteria Aquatic Life
115	PCB 128	ng/L	-	30		National Water Quality Criteria Aquatic Life
116	PCB 132/168	ng/L	-	30		National Water Quality Criteria Aquatic Life
117	PCB 138	ng/L	-	30		National Water Quality Criteria Aquatic Life
118	PCB 141	ng/L	-	30		National Water Quality Criteria Aquatic Life
119	PCB 149	ng/L	-	30		National Water Quality Criteria Aquatic Life
120	PCB 151	ng/L	-	30		National Water Quality Criteria Aquatic Life
121	PCB 153	ng/L	-	30		National Water Quality Criteria Aquatic Life
122	PCB 156	ng/L	-	30		National Water Quality Criteria Aquatic Life
123	PCB 157	ng/L	-	30		National Water Quality Criteria Aquatic Life
124	PCB 158	ng/L	-	30		National Water Quality Criteria Aquatic Life
125	PCB 167	ng/L	-	30		National Water Quality Criteria Aquatic Life
126	PCB 169	ng/L	-	30		National Water Quality Criteria Aquatic Life
127	PCB 170	ng/L	-	30		National Water Quality Criteria Aquatic Life
128	PCB 174	ng/L	-	30		National Water Quality Criteria Aquatic Life
129	PCB 177	ng/L	-	30		National Water Quality Criteria Aquatic Life
130	PCB 180	ng/L	-	30		National Water Quality Criteria Aquatic Life
131	PCB 183	ng/L	-	30		National Water Quality Criteria Aquatic Life
132	PCB 187	ng/L	-	30		National Water Quality Criteria Aquatic Life
133	PCB 189	ng/L	-	30		National Water Quality Criteria Aquatic Life
134	PCB 194	ng/L	-	30		National Water Quality Criteria Aquatic Life
135	PCB 195	ng/L	-	30	National Water Quality Criteria Aquatic Life	
136	PCB 199	ng/L	-	30	National Water Quality Criteria Aquatic Life	
137	PCB 201	ng/L	-	30	National Water Quality Criteria Aquatic Life	
138	PCB 206	ng/L	-	30	National Water Quality Criteria Aquatic Life	
139	PCB 209	ng/L	-	30	National Water Quality Criteria Aquatic Life	