

Table 5-29

Calculated Chemical Intake and Resulting Hazard Quotients for the Hawaiian Stilt, Waimanalo Stream (WS-001)

Bellows OU1 EE/CA, Bellows AFS, Hawaii

Chemical Group	Chemical	Sediment Concentration (mg/kg)	Fish Concentration (mg/kg)	Fish Fraction	Sediment Fraction	SUF	IR	RTV	CI	HQ
PEST/PCB	4,4'-DDD	0.0071	R	0.90	0.10	1.0	0.11	0.52	--	--
PEST/PCB	4,4'-DDE	0.0017	0.054	0.90	0.10	1.0	0.11	0.13	5.354E-03	4.118E-02
PEST/PCB	4,4'-DDT	0.019	0.011	0.90	0.10	1.0	0.11	0.10	1.305E-03	1.305E-02
PEST/PCB	Aldrin	3.30E-04	6.54E-04	0.90	0.10	1.0	0.11	1.0	6.774E-05	6.774E-05
PEST/PCB	Aroclor-1260	0.028	0.11	0.90	0.10	1.0	0.11	1.8	1.064E-02	5.979E-03
PEST/PCB	Chlordane (Alpha)	0.0033	0.0090	0.90	0.10	1.0	0.11	2.1	9.189E-04	4.294E-04
PEST/PCB	Chlordane (Gamma)	0.0019	0.0032	0.90	0.10	1.0	0.11	2.1	3.339E-04	1.560E-04
PEST/PCB	Dieldrin	0.0015	0.087	0.90	0.10	1.0	0.11	0.080	8.502E-03	1.063E-01
PEST/PCB	Endosulfan I	0.0084	0.0015	0.90	0.10	1.0	0.11	10	2.349E-04	2.349E-05
PEST/PCB	Endosulfan II	0.011	0.0056	0.90	0.10	1.0	0.11	10	6.670E-04	6.670E-05
PEST/PCB	Endosulfan sulfate	0.015	0.0022	0.90	0.10	1.0	0.11	10	3.823E-04	3.823E-05
PEST/PCB	Endrin	0.014	0.0031	0.90	0.10	1.0	0.11	0.30	4.544E-04	1.515E-03
PEST/PCB	Endrin aldehyde	0.0041	0.0015	0.90	0.10	1.0	0.11	0.30	1.881E-04	6.269E-04
PEST/PCB	Heptachlor	0.0031	5.38E-04	0.90	0.10	1.0	0.11	0.080	8.661E-05	1.083E-03
PEST/PCB	Heptachlor epoxide	0.0045	0.0068	0.90	0.10	1.0	0.11	0.0023	7.131E-04	3.100E-01
PEST/PCB	Methoxychlor	0.025	0.0042	0.90	0.10	1.0	0.11	220	6.838E-04	3.108E-06
PEST/PCB	gamma-BHC (Lindane)	0.42	0.0043	0.90	0.10	1.0	0.11	4.0	4.997E-03	1.249E-03
METALS	Arsenic	5.3	2.4	0.90	0.10	1.0	0.11	5.14	2.934E-01	5.708E-02
METALS	Barium	17	4.2	0.90	0.10	1.0	0.11	21	5.920E-01	2.842E-02
METALS	Cadmium	0.92	0.21	0.90	0.10	1.0	0.11	1.5	3.083E-02	2.126E-02
METALS	Chromium	111	13	0.90	0.10	1.0	0.11	10	2.443E+00	2.395E-01
METALS	Copper	50	245	0.90	0.10	1.0	0.11	47	2.459E+01	5.232E-01
METALS	Lead	6.7	1.4	0.90	0.10	1.0	0.11	8.1	2.092E-01	2.583E-02
METALS	Manganese	505	114	0.90	0.10	1.0	0.11	977	1.668E+01	1.707E-02
METALS	Mercury	0.10	0.075	0.90	0.10	1.0	0.11	0.32	8.477E-03	2.649E-02
METALS	Nickel	81	8.9	0.90	0.10	1.0	0.11	15	1.761E+00	1.137E-01
METALS	Selenium	1.7	6.6	0.90	0.10	1.0	0.11	0.40	6.616E-01	1.654E+00
METALS	Silver	0.75	0.39	0.90	0.10	1.0	0.11	2.1	4.684E-02	2.209E-02
METALS	Vanadium	88	12	0.90	0.10	1.0	0.11	11	2.156E+00	1.892E-01
METALS	Zinc	63	138	0.90	0.10	1.0	0.11	15	1.423E+01	9.816E-01

Notes:

Bold and shading indicate that the concentration exceeds a hazard quotient of 1.

All concentrations are given in dry weight.

SUF = site use factor

IR = ingestion rate

RTV = reference toxicity value

CI = chemical intake

HQ = hazard quotient

NTV = no toxicity value

R = rejected value

PEST/PCB = pesticides/polychlorinated biphenyls

mg/kg = milligrams per kilogram