

Table 5-31

Calculated Chemical Intake and Resulting Hazard Quotients for the Hawaiian Stilt, Waimanalo Stream (WS-003)

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	0.0046	R	0.90	0.10	1.0	0.11	0.52	--	--
PEST/PCB	4,4'-DDE	0.0016	0.037	0.90	0.10	1.0	0.11	0.13	3.626E-03	2.789E-02
PEST/PCB	4,4'-DDT	0.0012	0.0071	0.90	0.10	1.0	0.11	0.10	7.094E-04	7.094E-03
PEST/PCB	Aldrin	0.0021	6.29E-04	0.90	0.10	1.0	0.11	1.0	8.409E-05	8.409E-05
PEST/PCB	Aroclor-1260	0.030	0.097	0.90	0.10	1.0	0.11	1.8	9.863E-03	5.541E-03
PEST/PCB	Chlordane (Alpha)	0.0064	0.0049	0.90	0.10	1.0	0.11	2.1	5.500E-04	2.570E-04
PEST/PCB	Chlordane (Gamma)	0.0018	0.0014	0.90	0.10	1.0	0.11	2.1	1.568E-04	7.328E-05
PEST/PCB	Dieldrin	0.0028	0.052	0.90	0.10	1.0	0.11	0.080	5.168E-03	6.460E-02
PEST/PCB	Endosulfan I	0.0038	0.0014	0.90	0.10	1.0	0.11	10	1.784E-04	1.784E-05
PEST/PCB	Endosulfan II	0.0019	0.0034	0.90	0.10	1.0	0.11	10	3.569E-04	3.569E-05
PEST/PCB	Endosulfan sulfate	0.0033	0.0021	0.90	0.10	1.0	0.11	10	2.412E-04	2.412E-05
PEST/PCB	Endrin	0.0066	0.0019	0.90	0.10	1.0	0.11	0.30	2.532E-04	8.440E-04
PEST/PCB	Endrin aldehyde	0.0081	0.0014	0.90	0.10	1.0	0.11	0.30	2.255E-04	7.516E-04
PEST/PCB	Heptachlor	1.4	5.24E-04	0.90	0.10	1.0	0.11	0.080	1.570E-02	1.963E-01
PEST/PCB	Heptachlor epoxide	0.0026	0.0044	0.90	0.10	1.0	0.11	0.0023	4.634E-04	2.015E-01
PEST/PCB	Methoxychlor	0.0066	0.0074	0.90	0.10	1.0	0.11	220	7.991E-04	3.632E-06
PEST/PCB	gamma-BHC (Lindane)	0.47	8.39E-04	0.90	0.10	1.0	0.11	4.0	5.151E-03	1.288E-03
METALS	Arsenic	7.1	2.6	0.90	0.10	1.0	0.11	5.14	3.293E-01	6.406E-02
METALS	Barium	12	4.4	0.90	0.10	1.0	0.11	21	5.608E-01	2.692E-02
METALS	Cadmium	0.71	0.10	0.90	0.10	1.0	0.11	1.5	1.772E-02	1.222E-02
METALS	Chromium	106	15	0.90	0.10	1.0	0.11	10	2.626E+00	2.574E-01
METALS	Copper	47	79	0.90	0.10	1.0	0.11	47	8.305E+00	1.767E-01
METALS	Lead	9.0	2.9	0.90	0.10	1.0	0.11	8.1	3.790E-01	4.679E-02
METALS	Manganese	226	101	0.90	0.10	1.0	0.11	977	1.232E+01	1.261E-02
METALS	Mercury	0.10	0.045	0.90	0.10	1.0	0.11	0.32	5.524E-03	1.726E-02
METALS	Nickel	80	11	0.90	0.10	1.0	0.11	15	1.956E+00	1.264E-01
METALS	Selenium	1.6	3.2	0.90	0.10	1.0	0.11	0.40	3.262E-01	8.156E-01
METALS	Silver	0.58	0.16	0.90	0.10	1.0	0.11	2.1	2.234E-02	1.054E-02
METALS	Vanadium	87	13	0.90	0.10	1.0	0.11	11	2.246E+00	1.970E-01
METALS	Zinc	69	100	0.90	0.10	1.0	0.11	15	1.058E+01	7.296E-01

Notes:

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