

Table 5-32

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

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	0.0027	R	0.90	0.10	1.0	0.11	0.52	--	--
PEST/PCB	4,4'-DDE	0.011	0.020	0.90	0.10	1.0	0.11	0.13	2.119E-03	1.630E-02
PEST/PCB	4,4'-DDT	0.052	0.0036	0.90	0.10	1.0	0.11	0.10	9.172E-04	9.172E-03
PEST/PCB	Aldrin	8.90E-04	7.56E-04	0.90	0.10	1.0	0.11	1.0	8.389E-05	8.389E-05
PEST/PCB	Aroclor-1260	0.0047	0.071	0.90	0.10	1.0	0.11	1.8	7.058E-03	3.965E-03
PEST/PCB	Chlordane (Alpha)	0.0011	5.04E-04	0.90	0.10	1.0	0.11	2.1	6.145E-05	2.872E-05
PEST/PCB	Chlordane (Gamma)	0.0049	0.0016	0.90	0.10	1.0	0.11	2.1	2.142E-04	1.001E-04
PEST/PCB	Dieldrin	0.0032	0.030	0.90	0.10	1.0	0.11	0.080	2.933E-03	3.666E-02
PEST/PCB	Endosulfan I	7.60E-04	0.0016	0.90	0.10	1.0	0.11	10	1.690E-04	1.690E-05
PEST/PCB	Endosulfan II	0.0021	0.0016	0.90	0.10	1.0	0.11	10	1.836E-04	1.836E-05
PEST/PCB	Endosulfan sulfate	0.019	0.0016	0.90	0.10	1.0	0.11	10	3.679E-04	3.679E-05
PEST/PCB	Endrin	0.0016	0.0016	0.90	0.10	1.0	0.11	0.30	1.782E-04	5.940E-04
PEST/PCB	Endrin aldehyde	0.0077	0.0016	0.90	0.10	1.0	0.11	0.30	2.447E-04	8.156E-04
PEST/PCB	Heptachlor	0.010	6.72E-04	0.90	0.10	1.0	0.11	0.080	1.749E-04	2.187E-03
PEST/PCB	Heptachlor epoxide	0.0024	0.0027	0.90	0.10	1.0	0.11	0.0023	2.900E-04	1.261E-01
PEST/PCB	Methoxychlor	0.0032	0.0016	0.90	0.10	1.0	0.11	220	1.956E-04	8.892E-07
PEST/PCB	gamma-BHC (Lindane)	0.22	0.0010	0.90	0.10	1.0	0.11	4.0	2.497E-03	6.242E-04
METALS	Arsenic	2.3	2.8	0.90	0.10	1.0	0.11	5.14	3.032E-01	5.899E-02
METALS	Barium	4.7	7.6	0.90	0.10	1.0	0.11	21	7.924E-01	3.804E-02
METALS	Cadmium	0.16	0.039	0.90	0.10	1.0	0.11	1.5	5.498E-03	3.792E-03
METALS	Chromium	6.6	4.2	0.90	0.10	1.0	0.11	10	4.827E-01	4.732E-02
METALS	Copper	1.0	91	0.90	0.10	1.0	0.11	47	8.986E+00	1.912E-01
METALS	Lead	3.4	1.2	0.90	0.10	1.0	0.11	8.1	1.511E-01	1.865E-02
METALS	Manganese	59	166	0.90	0.10	1.0	0.11	977	1.688E+01	1.728E-02
METALS	Mercury	0.080	0.057	0.90	0.10	1.0	0.11	0.32	6.444E-03	2.014E-02
METALS	Nickel	3.8	6.0	0.90	0.10	1.0	0.11	15	6.329E-01	4.088E-02
METALS	Selenium	1.3	3.1	0.90	0.10	1.0	0.11	0.40	3.192E-01	7.981E-01
METALS	Silver	0.47	0.045	0.90	0.10	1.0	0.11	2.1	9.538E-03	4.499E-03
METALS	Vanadium	4.6	13	0.90	0.10	1.0	0.11	11	1.344E+00	1.179E-01
METALS	Zinc	3.4	107	0.90	0.10	1.0	0.11	15	1.048E+01	7.231E-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